

Appendix D-1

VMT Report



TO: Claudia Brizuela, City of San Diego
FROM: Stephen Cook, PE; Chen Ryan Associates, Inc.
DATE: July 27, 2018
RE: Morena Corridor Specific Plan – Vehicle Miles Traveled (VMT) Analysis

The purpose of this memorandum is to document the vehicle miles traveled (VMT) analysis that was conducted for the Morena Corridor Specific Plan (Proposed Project). **Figure 1** displays the project study area.

The VMT analysis was conducted using the California Emissions Estimator Model (CalEEMod) developed for the California Air Pollution Officers Association (CAPCOA) in collaboration with the California Air Districts. Default data inputs (e.g. emission factors, trip lengths, meteorology, source inventory, etc.) have been provided by the various California Air Districts to account for local requirements and conditions.

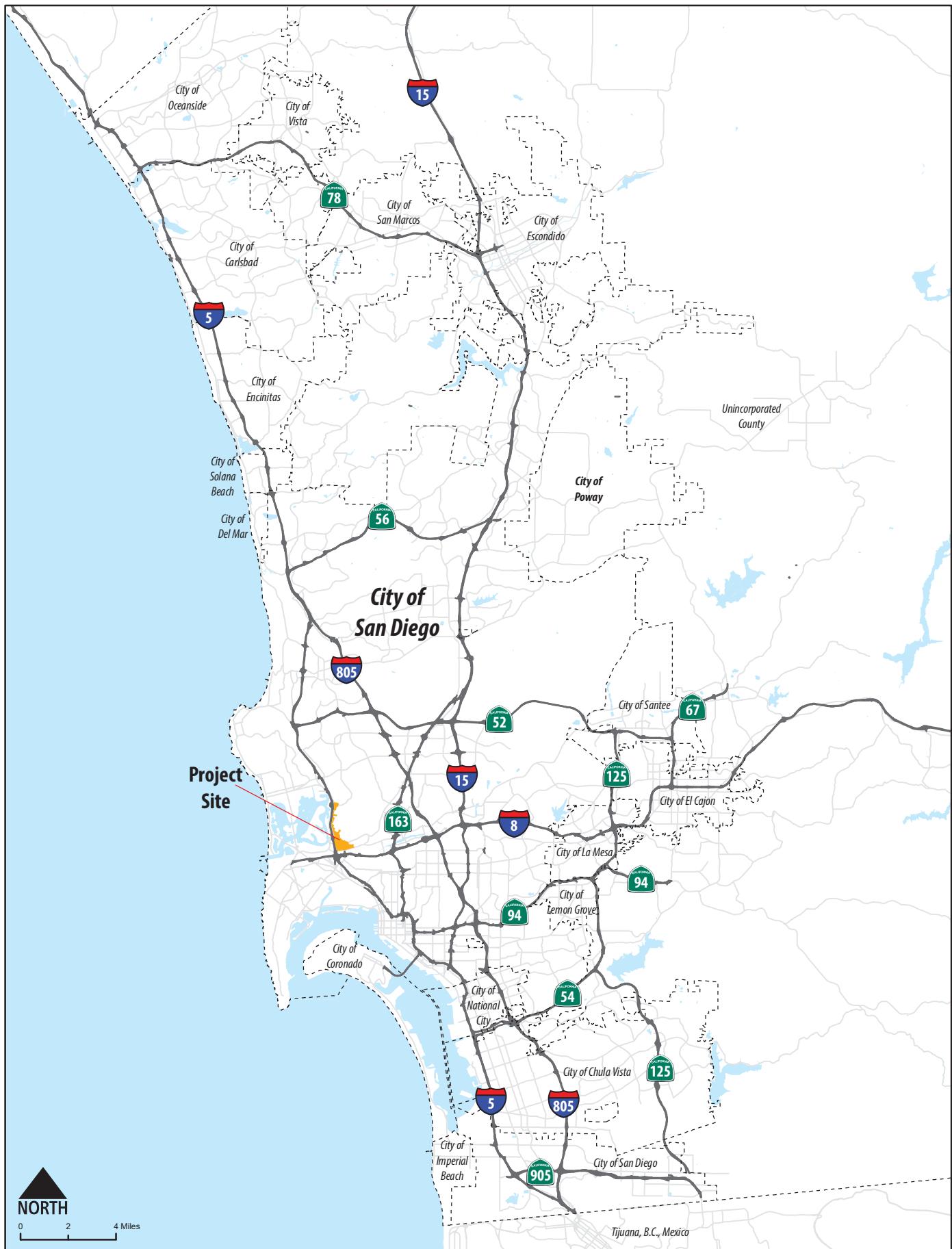
The model was used only with the intention to study VMT as a product of land use inputs and reduction inputs; all other values (e.g. construction and operational use) were reduced to zero where possible to maintain a focus on VMT.

Land Use Assumptions

For comparative purposes, VMT were calculated for existing and adopted plan land uses and two scenarios of the proposed plan land uses using CalEEMod 2016.3.2. The land uses assumed for each study scenario are provided in **Attachment A**. Table A.1 in Attachment A displays the land use assumptions taken from City of San Diego land use data within the project study area, under each study scenario.

Estimating Vehicle Miles Travelled

CalEEMod estimates VMT by first calculating trip rate, trip length, trip purpose, and trip type percentages (e.g., home to work, home to shop, home to other) for each land use type, based on the land use types and quantities entered by the user in the land use module. For this analysis, the CalEEMod default trip rates were edited to reflect the trip rates identified for each land use subtype. Edits were made using conversion rates from SANDAG's (Not so) Brief Guide of Vehicular Traffic Generation Rates for the San Diego Region (April 2002). The model's default trip lengths, purpose, and types were not edited.



**Morena Boulevard Corridor Plan
Vehicle Miles Traveled (VMT) Analysis**

CHEN + RYAN

Figure 1
Project Regional Location

VMT Analysis Results

Based upon methodology described above, a VMT analysis was conducted for all of the study scenario conditions. **Table 1** displays the total annual VMT generated within the project study area and the region-wide VMT for the following scenarios: Base Year Conditions (presented for informational purposes), and Horizon Year 2035 Preferred Plan Conditions, Mid-Density Alternative Conditions, and Adopted Plan Conditions (No Project). VMT calculation worksheets for each scenario are provided in **Attachment B**.

Table 1 – Vehicle Miles Traveled Raw Data Comparison

Scenario	Annual VMT	Δ in Value from Base Year	Daily VMT	Δ in Value from Base Year	Percent Change in Annual VMT from Base Year
Base Year	158,367,079	N/A	433,882	N/A	N/A
Preferred Plan	219,470,563	61,103,484	601,289	167,407	38.6%
Mid-Density Alternative	189,069,726	30,702,647	517,999	84,117	19.4%
Adopted Plan	178,852,209	20,485,130	490,006	56,124	12.9%

Source: CalEEMod 2016.3.2; Chen Ryan Associates (2018)

Notes:

Land use quantities are representative of those within Series 12 TAZ No. 2895, 2956, 2995, 3045, 3066, 3077, 3091, 3097, 3126, 4687, 4688, 4689, 4690, 4691, & 4692

As shown, the Preferred Plan is expected to increase annual VMT within the project study area by 38.6% from Base Year conditions. The Mid-Density Alternative is expected to have an 19.4% increase in annual VMT within the project study area. The Adopted Plan is anticipated to generate 12.9% greater VMT per year than Base Year Conditions.

VMT Reductions

Transportation Demand Management (TDM) measures were applied to each of the four scenarios evaluated to obtain a more realistic VMT result. TDM measures including, multi-modal transit, geographic location and characteristics, and accessibility were applied for all scenarios. **Table 2** displays which VMT reduction measures were applied to each scenario. **Table 3** displays the total annual VMT generated with reduction measures applied and displays the percent decrease from raw data VMT without reduction measures applied. Table A.2 in Attachment A provides a more detailed description of the specific values for each reduction applied and the sources they were found.

Table 2 – Applied VMT Reduction Measures

CAPCOA ID	Reduction	Base Year	Preferred Plan	Mid-Density Alternative	Adopted Plan
LUT-1	Increase Density	X	X	X	X
LUT-3	Increase Diversity	X	X	X	X
LUT-4	Improve Destination Accessibility	X	X	X	X
LUT-5	Increase Transit Accessibility	X	X	X	X
LUT-9	Improve Walkability Design	X	X	X	X
SDT-1	Improve Pedestrian Network		X	X	
SDT-2	Provide Traffic Calming Measures		X	X	
TST-1	Provide BRT System		X	X	X
TST-2	Expand Transit Network		X	X	
TST-3	Increase Transit Frequency		X	X	
TRT-3	Provide Ride Sharing Program	X	X	X	X
TRT-6	Encourage Telecommuting and Alternative Work Schedules	X	X	X	X

Source: CAPCOA; US Census LODES Data (2016); Chen Ryan Associates (2018)

Table 3 – Vehicle Miles Traveled with Reductions Comparison

Scenario	Annual VMT	Δ in Value from Base Year	Daily VMT	Δ in Value from Base Year	Δ in Percent VMT from Base Year	Δ in Percent from Raw VMT Data
Base Year	129,956,788	N/A	356,046	N/A	N/A	-17.9%
Preferred Plan	179,327,412	49,370,624	491,308	135,262	38.0%	-18.3%
Mid-Density Alternative	154,114,455	24,157,667	422,231	66,185	18.6%	-18.5%
Adopted Plan	146,912,998	16,956,210	402,501	46,455	13.0%	-17.9%

Source: CalEEMod 2016.3.2; Chen Ryan Associates (2018)

Notes:

Land use quantities are representative of those within Series 12 TAZ No. 2895, 2956, 2995, 3045, 3066, 3077, 3091, 3097, 3126, 4687, 4688, 4689, 4690, 4691, & 4692

As shown, the Preferred Plan is expected to increase VMT within the project study area by 38.0% per year from Base Year conditions after reduction factors are applied. The Mid-Density Alternative is expected to have an 18.6% increase in VMT within the project study area annually. The Adopted Plan, had an annual increase of 13.0% greater VMT for the year 2035 in comparison to present conditions. Relative to the raw VMT values listed in Table 1, the Base Year Conditions experience an 17.9% reduction in VMT due to TDM and other circumstantial characteristics of the surrounding neighborhood. In the Future Year 2035 scenarios, an 18.3% and 18.5% reduction in VMT from the raw VMT values was applied for the Preferred Plan and Mid-Density Alternative, respectively. The Adopted Plan incurred a 17.9% reduction in VMT from the raw data. The Adopted Plan has a lower reduction since it does not include similar transit, bicycle, and pedestrian improvements that are included in the Morena Corridor Specific Plan. The overall decrease in VMT for each scenario respectively is largely due to the increase in TDM provisions and the enhanced network and transit improvements of the study area. These VMT reduction measures are displayed in Table A.2.

Conclusions

In consideration of the CalEEMod analysis conducted for the four scenarios, several conclusions can be made from the results produced. The Morena Corridor Specific Plan is determined to increase the annual VMT in 2035 by 38.0% over the baseline scenario. This 38.0% increase is largely due to the increase in overall residential density during the same time period.

Attachment A CalEEMod Scenario Inputs

Scenario Land Use Comparison

Table A.1 – Scenario Land Use Comparison

Land Uses	Metric	Base Conditions	Preferred Plan	Mid-Density Conditions	Adopted Plan
Automobile Care Center	1000 SQFT	104.1	28.0	87.2	103.9
Bank (with Drive-Through)	1000 SQFT	17.1			17.1
City Park	ACRES	2.6	2.6	2.6	2.7
Condo/Townhouse	DU	754	6913	4618	1221
Convenience Market (24 Hours)	1000 SQFT	13.1	9.7	13.2	13.1
Convenience Market with Gas Pumps	PUMPS				22
Day-Care Center	1000 SQFT	22.7		10.1	22.7
Fast food Restaurant w/o Drive Thru	1000 SQFT	9.4	3.6	3.6	9.4
Gasoline/Service Station	PUMPS	30	18	18	8
General Light Industry	1000 SQFT	323.8	81.8	162	429.4
General Office Building	1000 SQFT	356.7	418.1	621	367.5
Government Office Building	1000 SQFT	147.2	146.1	146.1	146
High Turnover (Sit Down Restaurant)	1000 SQFT	33.3	25.7	25.7	34.8
Home Improvement Superstore	1000 SQFT	202		21.3	202
Hotel	ROOMS	101	101	101	101
Industrial Park	1000 SQFT	800.7	634	737	789.1
Medical Office Building	1000 SQFT	16.5	16.4	16.4	16.5
Mobile Home Park	DU	95			90
Parking Lot	ACRES	0.3			1.6
Quality Restaurant	1000 SQFT	15.3	13.8	13.8	13.8
Refrigerated Warehouse - Rail	1000 SQFT	56.6	56.6	56.6	55.3
Retirement Community	DU	8			8
Single Family Housing	DU	289	279	295	276
Strip Mall	1000 SQFT	874.5	779.4	693.4	1037.3
Unrefrigerated Warehouse - No Rail	1000 SQFT	503.2	476.2	476.2	503.2

Source: City of San Diego (2018); Chen Ryan Associates (2018)

Applied Scenario Reductions and TDM



Table A.2 – Applied Scenario Reductions and Transportation Demand Management

CAPCOA ID		Reduction	Base Year	Preferred Plan	Mid-Density Alternative	Adopted Plan	Source
-	Project Setting	Suburban Center				CAPCOA	
LUT-1	Increase Density	DU = 1146 1930 acres DU/acre = 0.594	DU = 7192 1930 acres DU/acre = 3.726	DU = 4913 1930 acres DU/acre = 2.546	DU = 1595 1930 acres DU/acre = 0.826	DU = City of San Diego Acres = Google Earth	
LUT-3	Increase Diversity	2478 Jobs 307 total job acres Jobs/Job acre = 8.07 Jobs/ Job acre	1810 Jobs 307 total job acres Jobs/Job acre = 5.90 Jobs/Job acre	2099 Jobs 307 total job acres Jobs/Job acre = 6.84 Jobs/Job acre	2347 Jobs 307 total job acres Jobs/Job acre = 7.64 Jobs/Job acre	Jobs = City of San Diego (Employment Rates, Land Use) Acres = ArcMap GIS	
LUT-4	Improve Destination Accessibility	5 miles Average Distance to Downtown/Job Center				Google Route Directions	
LUT-5	Increase Transit Accessibility	0.6 miles Average Distance to Transit Station				Google Route Directions	
LUT-9	Improve Walkability Design	80 Intersections total 0.479 square miles DU/mi ² = 167 intersections/mi ²				ArcMap GIS	
SDT-1	Improve Pedestrian Network	0	Project Site and Connecting Off-Site			0	Morena Boulevard Corridor Specific Plan
SDT-2	Provide Traffic Calming Measures	0	25% Streets with Improvement 25% Intersections with Improvement			0	Morena Boulevard Corridor Specific Plan
TST-1	Provide BRT System	0	20% Lines BRT			SANDAG Regional Transportation Plan (Attachment A)	
TST-2	Expand Transit Network	0	50% Increase Transit Coverage			0	SANDAG Regional Transportation Plan (Attachment A)

CAPCOA				Mid-Density		
ID	Reduction	Base Year	Preferred Plan	Alternative	Adopted Plan	Source
TST-3	Increase Transit Frequency	0	<50% Level of Implementation 50% Reduction in Headways		0	SANDAG Regional Transportation Plan (Attachment A)
TRT-3	Provide Ride Sharing Program	11% Employee Eligible				US Census LODES Data (2016)
TRT-6	Encourage Telecommuting and Alternative Work Schedules	4.56% work from home Assume 5% for alt work schedule				US Census LODES Data (2016)

Source: CAPCOA; US Census LODES Data (2016); Chen Ryan Associates (2018)



Attachment B CalEEMod Scenario Outputs

Base Conditions

Morena Boulevard VMT - San Diego County, Annual

Morena Boulevard VMT
San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Morena Boulevard VMT - San Diego County, Annual

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Bank (with Drive-Through)	17.10	1000sqft	0.39	17,100.00	0
General Office Building	356.70	1000sqft	8.19	356,700.00	0
Government Office Building	147.20	1000sqft	3.38	147,200.00	0
Medical Office Building	16.50	1000sqft	0.38	16,500.00	0
Day-Care Center	22.70	1000sqft	0.52	22,700.00	0
General Light Industry	323.80	1000sqft	7.43	323,800.00	0
Industrial Park	800.70	1000sqft	18.38	800,700.00	0
Refrigerated Warehouse-Rail	56.60	1000sqft	1.30	56,600.00	0
Unrefrigerated Warehouse-No Rail	503.20	1000sqft	11.55	503,200.00	0
Parking Lot	0.30	Acre	0.30	13,068.00	0
City Park	2.60	Acre	2.60	113,256.00	0
City Park	0.00	Acre	0.00	0.00	0
Fast Food Restaurant w/o Drive Thru	9.40	1000sqft	0.22	9,400.00	0
High Turnover (Sit Down Restaurant)	33.30	1000sqft	0.76	33,300.00	0
Hotel	101.00	Room	3.37	146,652.00	0
Quality Restaurant	15.30	1000sqft	0.35	15,300.00	0
Condo/Townhouse	754.00	Dwelling Unit	47.13	754,000.00	2156
Mobile Home Park	95.00	Dwelling Unit	11.97	114,000.00	272
Retirement Community	8.00	Dwelling Unit	1.60	8,000.00	23
Single Family Housing	289.00	Dwelling Unit	93.83	520,200.00	827
Automobile Care Center	104.10	1000sqft	2.39	104,100.00	0
Convenience Market (24 Hour)	13.10	1000sqft	0.30	13,100.00	0
Gasoline/Service Station	30.00	Pump	0.10	4,235.25	0
Home Improvement Superstore	202.00	1000sqft	4.64	202,000.00	0
Strip Mall	874.50	1000sqft	20.08	874,500.00	0

1.2 Other Project Characteristics

Morena Boulevard VMT - San Diego County, Annual

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2018
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Several Unit amounts converted using the SANDAG "(NOT SO) BRIEF GUIDE OF VEHICULAR TRAFFIC GENERATION RATES FOR THE SAN DIEGO REGION" April 2002

Construction Phase - Not studying construction

Off-road Equipment - Not analyzing contruction

Trips and VMT - Not analyzing contruction

On-road Fugitive Dust - Not analyzing contruction

Demolition - Not analyzing contruction

Grading - Not analyzing contruction

Architectural Coating - Not studying construction

Road Dust -

Woodstoves - Not analyzing operational use

Consumer Products - Not analyzing operational use

Area Coating - Not analyzing operational use

Landscape Equipment - Not analyzing operational use

Morena Boulevard VMT - San Diego County, Annual

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Mobile Commute Mitigation - 2.27% of respondents indicated transit as work mode of choice

Operational Off-Road Equipment - Not analyzing operational use

Stationary Sources - Emergency Generators and Fire Pumps - Not analyzing operational use

Stationary Sources - Process Boilers - Not analyzing operational use

Stationary Sources - User Defined - Not analyzing operational use

Stationary Sources - Emergency Generators and Fire Pumps EF - Not analyzing operational use

Stationary Sources - Process Boilers EF - Not analyzing operational use

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,987,394.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	5,962,181.00	0.00
tblArchitecturalCoating	ConstArea_Parking	784.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	942,435.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	2,827,305.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	1987394	1907539
tblAreaCoating	Area_Nonresidential_Interior	5962181	5722616
tblAreaCoating	Area_Residential_Exterior	942435	871560

Morena Boulevard VMT - San Diego County, Annual

tblAreaCoating	Area_Residential_Interior	2827305	2614680
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	40
tblConstructionPhase	NumDays	300.00	0.00
tblConstructionPhase	NumDays	180.00	0.00
tblConstructionPhase	NumDays	465.00	0.00
tblConstructionPhase	NumDays	4,650.00	0.00
tblConstructionPhase	NumDays	330.00	0.00
tblConstructionPhase	NumDays	330.00	0.00
tblFireplaces	NumberGas	414.70	0.00
tblFireplaces	NumberGas	52.25	0.00
tblFireplaces	NumberGas	4.40	0.00
tblFireplaces	NumberGas	158.95	0.00
tblFireplaces	NumberNoFireplace	75.40	0.00
tblFireplaces	NumberNoFireplace	9.50	0.00
tblFireplaces	NumberNoFireplace	0.80	0.00
tblFireplaces	NumberNoFireplace	28.90	0.00
tblFireplaces	NumberWood	263.90	0.00
tblFireplaces	NumberWood	33.25	0.00
tblFireplaces	NumberWood	2.80	0.00
tblFireplaces	NumberWood	101.15	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.57	0.00
tblFleetMix	LDT1	0.05	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00

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tblFleetMix	LHD2	5.6460e-003	0.00
tblFleetMix	MCY	6.3850e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	1.4520e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	1.8710e-003	0.00
tblFleetMix	SBUS	7.3900e-004	0.00
tblFleetMix	UBUS	2.1730e-003	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00

Morena Boulevard VMT - San Diego County, Annual

tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblSolidWaste	SolidWasteGenerationRate	397.66	347.62
tblSolidWaste	SolidWasteGenerationRate	346.84	265.42
tblSolidWaste	SolidWasteGenerationRate	401.51	401.52
tblSolidWaste	SolidWasteGenerationRate	3,717.36	3,717.47
tblSolidWaste	SolidWasteGenerationRate	53.20	53.23
tblSolidWaste	SolidWasteGenerationRate	3.68	36.80
tblSolidWaste	SolidWasteGenerationRate	918.23	918.21
tblTripsAndVMT	VendorTripNumber	795.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	2,237.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	447.00	0.00
tblWater	IndoorWaterUseRate	9,793,843.29	8,561,380.78
tblWater	IndoorWaterUseRate	49,126,135.32	37,593,872.78
tblWater	IndoorWaterUseRate	74,878,750.00	74,881,062.50
tblWater	IndoorWaterUseRate	43,190,401.03	43,191,655.83
tblWater	IndoorWaterUseRate	13,088,750.00	13,095,687.50
tblWater	IndoorWaterUseRate	521,232.20	5,212,322.05
tblWater	IndoorWaterUseRate	64,776,420.04	64,775,679.31
tblWater	OutdoorWaterUseRate	6,002,678.14	5,247,297.90
tblWater	OutdoorWaterUseRate	30,970,824.44	23,700,485.02
tblWater	OutdoorWaterUseRate	8,226,743.05	8,226,982.06
tblWater	OutdoorWaterUseRate	328,602.91	3,286,029.12
tblWater	OutdoorWaterUseRate	39,701,676.80	39,701,222.80

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tblWoodstoves	NumberCatalytic	37.70	0.00
tblWoodstoves	NumberCatalytic	4.75	0.00
tblWoodstoves	NumberCatalytic	0.40	0.00
tblWoodstoves	NumberCatalytic	14.45	0.00
tblWoodstoves	NumberNoncatalytic	37.70	0.00
tblWoodstoves	NumberNoncatalytic	4.75	0.00
tblWoodstoves	NumberNoncatalytic	0.40	0.00
tblWoodstoves	NumberNoncatalytic	14.45	0.00

2.0 Emissions Summary

Morena Boulevard VMT - San Diego County, Annual

2.1 Overall Construction

Unmitigated Construction

Mitigated Construction

Morena Boulevard VMT - San Diego County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	19.9659	0.0998	8.6032	4.5000e-004		0.0469	0.0469		0.0469	0.0469	0.0000	13.9645	13.9645	0.0140	0.0000	14.3133
Energy	0.4001	3.5784	2.6261	0.0218		0.2764	0.2764		0.2764	0.2764	0.0000	20,252.47 56	20,252.47 56	0.7317	0.2083	20,332.83 26
Mobile	31.9374	121.4019	312.6974	0.7860	59.6224	0.9621	60.5845	15.9608	0.9063	16.8671	0.0000	72,216.70 67	72,216.70 67	4.7278	0.0000	72,334.90 21
Waste						0.0000	0.0000		0.0000	0.0000	2,227.336 6	0.0000	2,227.336 6	131.6318	0.0000	5,518.132 2
Water						0.0000	0.0000		0.0000	0.0000	223.5522 5	3,616.326 7	3,839.878 7	23.1065	0.5723	4,588.079 0
Total	52.3033	125.0801	323.9266	0.8083	59.6224	1.2854	60.9078	15.9608	1.2296	17.1904	2,450.888 8	96,099.47 33	98,550.36 21	160.2118	0.7805	102,788.2 591

Morena Boulevard VMT - San Diego County, Annual

2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Area	19.9659	0.0998	8.6032	4.5000e-004		0.0469	0.0469		0.0469	0.0469	0.0000	13.9645	13.9645	0.0140	0.0000	14.3133	
Energy	0.4001	3.5784	2.6261	0.0218		0.2764	0.2764		0.2764	0.2764	0.0000	20,252.47 56	20,252.47 56	0.7317	0.2083	20,332.83 26	
Mobile	30.2485	110.1742	276.9085	0.6580	48.9267	0.8139	49.7406	13.0976	0.7665	13.8640	0.0000	60,462.51 23	60,462.51 23	4.1472	0.0000	60,566.19 13	
Waste						0.0000	0.0000		0.0000	0.0000	2,227.336 6	0.0000	2,227.336 6	131.6318	0.0000	5,518.132 2	
Water						0.0000	0.0000		0.0000	0.0000	223.5522 5	3,616.326 7	3,839.878 7	23.1065	0.5723	4,588.079 0	
Total	50.6144	113.8524	288.1377	0.6803	48.9267	1.1372	50.0638	13.0976	1.0898	14.1873	2,450.888 8	84,345.27 89	86,796.16 77	159.6311	0.7805	91,019.54 83	

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	3.23	8.98	11.05	15.84	17.94	11.53	17.80	17.94	11.37	17.47	0.00	12.23	11.93	0.36	0.00	11.45

3.0 Construction Detail**Construction Phase**

Morena Boulevard VMT - San Diego County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/29/2018	6/28/2018	5	0	
2	Site Preparation	Site Preparation	6/29/2018	6/28/2018	5	0	
3	Grading	Grading	6/29/2018	6/28/2018	5	0	
4	Building Construction	Building Construction	6/29/2018	6/28/2018	5	0	
5	Paving	Paving	6/29/2018	6/28/2018	5	0	
6	Architectural Coating	Architectural Coating	6/29/2018	6/28/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.3

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

OffRoad Equipment

Morena Boulevard VMT - San Diego County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Morena Boulevard VMT - San Diego County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2018

Unmitigated Construction On-Site

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3.2 Demolition - 2018

Unmitigated Construction Off-Site

Mitigated Construction On-Site

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3.2 Demolition - 2018

Mitigated Construction Off-Site

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

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3.3 Site Preparation - 2018

Unmitigated Construction Off-Site

Mitigated Construction On-Site

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3.3 Site Preparation - 2018

Mitigated Construction Off-Site

3.4 Grading - 2018

Unmitigated Construction On-Site

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3.4 Grading - 2018

Unmitigated Construction Off-Site

Mitigated Construction On-Site

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3.4 Grading - 2018

Mitigated Construction Off-Site

3.5 Building Construction - 2018

Unmitigated Construction On-Site

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3.5 Building Construction - 2018

Unmitigated Construction Off-Site

Mitigated Construction On-Site

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3.5 Building Construction - 2018

Mitigated Construction Off-Site

3.6 Paving - 2018

Unmitigated Construction On-Site

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3.6 Paving - 2018

Unmitigated Construction Off-Site

Mitigated Construction On-Site

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3.6 Paving - 2018

Mitigated Construction Off-Site

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

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3.7 Architectural Coating - 2018

Unmitigated Construction Off-Site

Mitigated Construction On-Site

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3.7 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Increase Density

Increase Diversity

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Encourage Telecommuting and Alternative Work Schedules

Provide Ride Sharing Program

Morena Boulevard VMT - San Diego County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Mitigated	30.2485	110.1742	276.9085	0.6580	48.9267	0.8139	49.7406	13.0976	0.7665	13.8640	0.0000	60,462.51 23	60,462.51 23	4.1472	0.0000	60,566.19 13	
Unmitigated	31.9374	121.4019	312.6974	0.7860	59.6224	0.9621	60.5845	15.9608	0.9063	16.8671	0.0000	72,216.70 67	72,216.70 67	4.7278	0.0000	72,334.90 21	

4.2 Trip Summary Information

Morena Boulevard VMT - San Diego County, Annual

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	2,469.25	2,469.25	1236.71	2,284,428	1,867,061
Bank (with Drive-Through)	2,533.37	1,476.07	545.49	1,940,914	1,588,903
City Park	4.91	59.15	43.52	38,807	31,716
City Park	0.00	0.00	0.00		
Condo/Townhouse	4,380.74	4,275.18	3649.36	12,166,953	10,331,598
Convenience Market (24 Hour)	9,667.67	11,306.61	9935.70	7,570,146	6,199,572
Day-Care Center	1,681.16	140.97	132.34	1,460,112	1,155,756
Fast Food Restaurant w/o Drive Thru	6,730.40	6,542.40	4700.00	10,342,183	8,469,366
Gasoline/Service Station	5,056.80	5,056.80	5056.80	2,913,568	2,385,893
General Light Industry	2,256.89	427.42	220.18	4,976,528	4,036,154
General Office Building	3,934.40	877.48	374.54	7,143,320	5,838,110
Government Office Building	10,146.50	0.00	0.00	12,428,591	9,999,414
High Turnover (Sit Down Restaurant)	4,234.10	5,273.72	4390.27	5,110,877	4,183,416
Home Improvement Superstore	6,209.48	11,457.44	11271.60	8,219,877	6,721,959
Industrial Park	5,468.78	1,993.74	584.51	11,207,252	9,089,507
Medical Office Building	596.15	147.84	25.58	881,920	720,923
Mobile Home Park	474.05	475.00	414.20	1,329,531	1,128,975
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	1,376.24	1,443.71	1104.05	1,597,755	1,307,516
Refrigerated Warehouse-Rail	95.09	95.09	95.09	277,610	231,753
Retirement Community	19.20	16.24	15.60	52,146	44,280
Single Family Housing	2,751.28	2,863.99	2491.18	7,795,619	6,619,668
Strip Mall	38,757.84	36,763.98	17866.04	54,653,400	44,711,836
Unrefrigerated Warehouse-No Rail	845.38	845.38	845.38	2,468,085	2,060,388
Hotel	825.17	827.19	600.95	1,507,457	1,233,026
Total	110,514.83	94,834.65	65,599.07	158,367,079	129,956,788

4.3 Trip Type Information

Morena Boulevard VMT - San Diego County, Annual

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
Bank (with Drive-Through)	9.50	7.30	7.30	6.60	74.40	19.00	27	26	47
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Convenience Market (24 Hour)	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61
Day-Care Center	9.50	7.30	7.30	12.70	82.30	5.00	28	58	14
Fast Food Restaurant w/o Drive	9.50	7.30	7.30	1.50	79.50	19.00	51	37	12
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Home Improvement Superstore	9.50	7.30	7.30	23.40	57.60	19.00	32	20	48
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Mobile Home Park	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	38	18	44
Refrigerated Warehouse-Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3
Retirement Community	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Bank (with Drive-Through)	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
City Park	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Condo/Townhouse	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Convenience Market (24 Hour)	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Day-Care Center	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Fast Food Restaurant w/o Drive Thru	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Gasoline/Service Station	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
General Light Industry	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
General Office Building	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Government Office Building	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
High Turnover (Sit Down Restaurant)	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Home Improvement Superstore	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Industrial Park	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Medical Office Building	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Mobile Home Park	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Parking Lot	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Quality Restaurant	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Refrigerated Warehouse-Rail	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Retirement Community	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Single Family Housing	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Strip Mall	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Unrefrigerated Warehouse-No Rail	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Hotel	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

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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					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	16,293.26	16,293.26	0.6558	0.1357	16,350.09
												21	21			15
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	16,293.26	16,293.26	0.6558	0.1357	16,350.09
												21	21			15
NaturalGas Mitigated	0.4001	3.5784	2.6261	0.0218			0.2764	0.2764		0.2764	0.2764	3,959.213	3,959.213	0.0759	0.0726	3,982.7411
												5	5			
NaturalGas Unmitigated	0.4001	3.5784	2.6261	0.0218			0.2764	0.2764		0.2764	0.2764	3,959.213	3,959.213	0.0759	0.0726	3,982.7411
												5	5			

5.2 Energy by Land Use - NaturalGasUnmitigated

	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					
Automobile Care Center	1.2034e+006	6.4900e-003	0.0590	0.0496	3.5000e-004		4.4800e-003	4.4800e-003		4.4800e-003	4.4800e-003	0.0000	64.2178	64.2178	1.2300e-003	1.1800e-003	64.5994
Bank (with Drive-Through)	197676	1.0700e-003	9.6900e-003	8.1400e-003	6.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	10.5487	10.5487	2.0000e-004	1.9000e-004	10.6114

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	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					
City Park	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	
Condo/Townhouse	1.08447e+007	0.0585	0.4997	0.2126	3.1900e-003		0.0404	0.0404		0.0404	0.0404	0.0000	578.7128	578.7128	0.0111	0.0106	582.1518	
Convenience Market (24 Hour)	29213	1.6000e-004	1.4300e-003	1.2000e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5589	1.5589	3.0000e-005	3.0000e-005	1.5682	
Day-Care Center	134384	7.2000e-004	6.5900e-003	5.5300e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	7.1712	7.1712	1.4000e-004	1.3000e-004	7.2139	
Fast Food Restaurant w/o Drive Thru	1.63917e+006	8.8400e-003	0.0804	0.0675	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003	0.0000	87.4725	87.4725	1.6800e-003	1.6000e-003	87.9923	
Gasoline/Service Station	48959.5	2.6000e-004	2.4000e-003	2.0200e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.6127	2.6127	5.0000e-005	5.0000e-005	2.6282	
General Light Industry	3.74313e+006	0.0202	0.1835	0.1541	1.1000e-003		0.0139	0.0139		0.0139	0.0139	0.0000	199.7476	199.7476	3.8300e-003	3.6600e-003	200.9346	
General Office Building	7.20177e+006	0.0388	0.3530	0.2965	2.1200e-003		0.0268	0.0268		0.0268	0.0268	0.0000	384.3140	384.3140	7.3700e-003	7.0500e-003	386.5978	
Government Office Building	2.97197e+006	0.0160	0.1457	0.1224	8.7000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	158.5955	158.5955	3.0400e-003	2.9100e-003	159.5380	
High Turnover (Sit Down Restaurant)	5.80685e+006	0.0313	0.2847	0.2391	1.7100e-003		0.0216	0.0216		0.0216	0.0216	0.0000	309.8758	309.8758	5.9400e-003	5.6800e-003	311.7173	
Home Improvement Superstore	450460	2.4300e-003	0.0221	0.0186	1.3000e-004		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	24.0383	24.0383	4.6000e-004	4.4000e-004	24.1811	
Hotel	8.56008e+006	0.0462	0.4196	0.3525	2.5200e-003		0.0319	0.0319		0.0319	0.0319	0.0000	456.7983	456.7983	8.7600e-003	8.3700e-003	459.5128	
Industrial Park	1.61661e+007	0.0872	0.7925	0.6657	4.7500e-003		0.0602	0.0602		0.0602	0.0602	0.0000	862.6864	862.6864	0.0165	0.0158	867.8129	
Medical Office Building	333135	1.8000e-003	0.0163	0.0137	1.0000e-004		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	17.7774	17.7774	3.4000e-004	3.3000e-004	17.8830	
Mobile Home Park	2.1942e+006	0.0118	0.1011	0.0430	6.5000e-004		8.1700e-003	8.1700e-003		8.1700e-003	8.1700e-003	0.0000	117.0910	117.0910	2.2400e-003	2.1500e-003	117.7868	
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Quality Restaurant	2.66801e+006	0.0144	0.1308	0.1099	7.8000e-004		9.9400e-003	9.9400e-003		9.9400e-003	9.9400e-003	0.0000	142.3754	142.3754	2.7300e-003	2.6100e-003	143.2215	

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	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					
Refrigerated Warehouse-Rail	360542	1.9400e-003	0.0177	0.0149	1.1000e-004		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003	0.0000	19.2399	19.2399	3.7000e-004	3.5000e-004	19.3542	
Retirement Community	89803.9	4.8000e-004	4.1400e-003	1.7600e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	4.7923	4.7923	9.0000e-005	9.0000e-005	4.8208	
Single Family Housing	6.75882e+006	0.0364	0.3114	0.1325	1.9900e-003		0.0252	0.0252		0.0252	0.0252	0.0000	360.6764	360.6764	6.9100e-003	6.6100e-003	362.8197	
Strip Mall	1.95014e+006	0.0105	0.0956	0.0803	5.7000e-004		7.2700e-003	7.2700e-003		7.2700e-003	7.2700e-003	0.0000	104.0666	104.0666	1.9900e-003	1.9100e-003	104.6851	
Unrefrigerated Warehouse-No Rail	840344	4.5300e-003	0.0412	0.0346	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	44.8440	44.8440	8.6000e-004	8.2000e-004	45.1104	
Total		0.4001	3.5784	2.6261	0.0218		0.2764	0.2764		0.2764	0.2764	0.0000	3,959.2135	3,959.2135	0.0759	0.0726	3,982.7411	

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					
Automobile Care Center	1.2034e+006	6.4900e-003	0.0590	0.0496	3.5000e-004		4.4800e-003	4.4800e-003		4.4800e-003	4.4800e-003	0.0000	64.2178	64.2178	1.2300e-003	1.1800e-003	64.5994	
Bank (with Drive-Through)	197676	1.0700e-003	9.6900e-003	8.1400e-003	6.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	10.5487	10.5487	2.0000e-004	1.9000e-004	10.6114	
City Park	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	
Condo/Townhouse	1.08447e+007	0.0585	0.4997	0.2126	3.1900e-003		0.0404	0.0404		0.0404	0.0404	0.0000	578.7128	578.7128	0.0111	0.0106	582.1518	
Convenience Market (24 Hour)	29213	1.6000e-004	1.4300e-003	1.2000e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5589	1.5589	3.0000e-005	3.0000e-005	1.5682	
Day-Care Center	134384	7.2000e-004	6.5900e-003	5.5300e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	7.1712	7.1712	1.4000e-004	1.3000e-004	7.2139	

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	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					
Fast Food Restaurant w/o Drive Thru	1.63917e+006	8.8400e-003	0.0804	0.0675	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003	0.0000	87.4725	87.4725	1.6800e-003	1.6000e-003	87.9923	
Gasoline/Service Station	48959.5	2.6000e-004	2.4000e-003	2.0200e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.6127	2.6127	5.0000e-005	5.0000e-005	2.6282	
General Light Industry	3.74313e+006	0.0202	0.1835	0.1541	1.1000e-003		0.0139	0.0139		0.0139	0.0139	0.0000	199.7476	199.7476	3.8300e-003	3.6600e-003	200.9346	
General Office Building	7.20177e+006	0.0388	0.3530	0.2965	2.1200e-003		0.0268	0.0268		0.0268	0.0268	0.0000	384.3140	384.3140	7.3700e-003	7.0500e-003	386.5978	
Government Office Building	2.97197e+006	0.0160	0.1457	0.1224	8.7000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	158.5955	158.5955	3.0400e-003	2.9100e-003	159.5380	
High Turnover (Sit Down Restaurant)	5.80685e+006	0.0313	0.2847	0.2391	1.7100e-003		0.0216	0.0216		0.0216	0.0216	0.0000	309.8758	309.8758	5.9400e-003	5.6800e-003	311.7173	
Home Improvement Superstore	450460	2.4300e-003	0.0221	0.0186	1.3000e-004		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	24.0383	24.0383	4.6000e-004	4.4000e-004	24.1811	
Hotel	8.56008e+006	0.0462	0.4196	0.3525	2.5200e-003		0.0319	0.0319		0.0319	0.0319	0.0000	456.7983	456.7983	8.7600e-003	8.3700e-003	459.5128	
Industrial Park	1.61661e+007	0.0872	0.7925	0.6657	4.7500e-003		0.0602	0.0602		0.0602	0.0602	0.0000	862.6864	862.6864	0.0165	0.0158	867.8129	
Medical Office Building	333135	1.8000e-003	0.0163	0.0137	1.0000e-004		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	17.7774	17.7774	3.4000e-004	3.3000e-004	17.8830	
Mobile Home Park	2.1942e+006	0.0118	0.1011	0.0430	6.5000e-004		8.1700e-003	8.1700e-003		8.1700e-003	8.1700e-003	0.0000	117.0910	117.0910	2.2400e-003	2.1500e-003	117.7868	
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Quality Restaurant	2.66801e+006	0.0144	0.1308	0.1099	7.8000e-004		9.9400e-003	9.9400e-003		9.9400e-003	9.9400e-003	0.0000	142.3754	142.3754	2.7300e-003	2.6100e-003	143.2215	
Refrigerated Warehouse-Rail	360542	1.9400e-003	0.0177	0.0149	1.1000e-004		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003	0.0000	19.2399	19.2399	3.7000e-004	3.5000e-004	19.3542	
Retirement Community	89803.9	4.8000e-004	4.1400e-003	1.7600e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	4.7923	4.7923	9.0000e-005	9.0000e-005	4.8208	
Single Family Housing	6.75882e+006	0.0364	0.3114	0.1325	1.9900e-003		0.0252	0.0252		0.0252	0.0252	0.0000	360.6764	360.6764	6.9100e-003	6.6100e-003	362.8197	
Strip Mall	1.95014e+006	0.0105	0.0956	0.0803	5.7000e-004		7.2700e-003	7.2700e-003		7.2700e-003	7.2700e-003	0.0000	104.0666	104.0666	1.9900e-003	1.9100e-003	104.6851	

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	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					
Unrefrigerated Warehouse-No Rail	840344	4.5300e-003	0.0412	0.0346	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	44.8440	44.8440	8.6000e-004	8.2000e-004	45.1104
Total		0.4001	3.5784	2.6261	0.0218		0.2764	0.2764		0.2764	0.2764	0.0000	3,959.2135	3,959.2135	0.0759	0.0726	3,982.7411

5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	865071	282.7128	0.0114	2.3500e-003	283.6989
Bank (with Drive-Through)	142101	46.4399	1.8700e-003	3.9000e-004	46.6018
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	3.78759e+006	1,237.8179	0.0498	0.0103	1,242.1353
Convenience Market (24 Hour)	164536	53.7718	2.1600e-003	4.5000e-004	53.9594
Day-Care Center	118948	38.8733	1.5600e-003	3.2000e-004	39.0088
Fast Food Restaurant w/o Drive Thru	363780	118.8865	4.7900e-003	9.9000e-004	119.3012
Gasoline/Service Station	35194.9	11.5020	4.6000e-004	1.0000e-004	11.5421
General Light Industry	2.69078e+006	879.3698	0.0354	7.3200e-003	882.4370
General Office Building	4.79405e+006	1,566.7369	0.0631	0.0131	1,572.2015

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government Office Building	1.97837e +006	646.5480	0.0260	5.3800e-003	648.8031
High Turnover (Sit Down Restaurant)	1.28871e +006	421.1617	0.0170	3.5100e-003	422.6307
Home Improvement Superstore	2.53712e +006	829.1531	0.0334	6.9000e-003	832.0451
Hotel	1.89914e +006	620.6567	0.0250	5.1700e-003	622.8215
Industrial Park	1.07614e +007	3,516.9225	0.1416	0.0293	3,529.1892
Medical Office Building	221760	72.4731	2.9200e-003	6.0000e-004	72.7259
Mobile Home Park	515322	168.4117	6.7800e-003	1.4000e-003	168.9991
Parking Lot	4573.8	1.4948	6.0000e-005	1.0000e-005	1.5000
Quality Restaurant	592110	193.5067	7.7900e-003	1.6100e-003	194.1817
Refrigerated Warehouse-Rail	1.8995e +006	620.7720	0.0250	5.1700e-003	622.9371
Retirement Community	35477.8	11.5944	4.7000e-004	1.0000e-004	11.6349
Single Family Housing	2.33971e +006	764.6375	0.0308	6.3700e-003	767.3045
Strip Mall	1.09837e +007	3,589.5760	0.1445	0.0299	3,602.0961
Unrefrigerated Warehouse-No Rail	1.83668e +006	600.2431	0.0242	5.0000e-003	602.3367
Total		16,293.2621	0.6558	0.1357	16,350.0915

5.3 Energy by Land Use - Electricity**Mitigated**

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	865071	282.7128	0.0114	2.3500e-003	283.6989
Bank (with Drive-Through)	142101	46.4399	1.8700e-003	3.9000e-004	46.6018
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	3.78759e+006	1,237.8179	0.0498	0.0103	1,242.1353
Convenience Market (24 Hour)	164536	53.7718	2.1600e-003	4.5000e-004	53.9594
Day-Care Center	118948	38.8733	1.5600e-003	3.2000e-004	39.0088
Fast Food Restaurant w/o Drive Thru	363780	118.8865	4.7900e-003	9.9000e-004	119.3012
Gasoline/Service Station	35194.9	11.5020	4.6000e-004	1.0000e-004	11.5421
General Light Industry	2.69078e+006	879.3698	0.0354	7.3200e-003	882.4370
General Office Building	4.79405e+006	1,566.7369	0.0631	0.0131	1,572.2015
Government Office Building	1.97837e+006	646.5480	0.0260	5.3800e-003	648.8031
High Turnover (Sit Down Restaurant)	1.28871e+006	421.1617	0.0170	3.5100e-003	422.6307
Home Improvement Superstore	2.53712e+006	829.1531	0.0334	6.9000e-003	832.0451
Hotel	1.89914e+006	620.6567	0.0250	5.1700e-003	622.8215
Industrial Park	1.07614e+007	3,516.9225	0.1416	0.0293	3,529.1892
Medical Office Building	221760	72.4731	2.9200e-003	6.0000e-004	72.7259
Mobile Home Park	515322	168.4117	6.7800e-003	1.4000e-003	168.9991

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	4573.8	1.4948	6.0000e-005	1.0000e-005	1.5000
Quality Restaurant	592110	193.5067	7.7900e-003	1.6100e-003	194.1817
Refrigerated Warehouse-Rail	1.8995e+006	620.7720	0.0250	5.1700e-003	622.9371
Retirement Community	35477.8	11.5944	4.7000e-004	1.0000e-004	11.6349
Single Family Housing	2.33971e+006	764.6375	0.0308	6.3700e-003	767.3045
Strip Mall	1.09837e+007	3,589.5760	0.1445	0.0299	3,602.0961
Unrefrigerated Warehouse-No Rail	1.83668e+006	600.2431	0.0242	5.0000e-003	602.3367
Total		16,293.2621	0.6558	0.1357	16,350.0915

6.0 Area Detail**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Mitigated	19.9659	0.0998	8.6032	4.5000e-004		0.0469	0.0469		0.0469	0.0469	0.0000	13.9645	13.9645	0.0140	0.0000	14.3133	
Unmitigated	19.9659	0.0998	8.6032	4.5000e-004		0.0469	0.0469		0.0469	0.0469	0.0000	13.9645	13.9645	0.0140	0.0000	14.3133	

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	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	19.6985					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2674	0.0998	8.6032	4.5000e-004		0.0469	0.0469		0.0469	0.0469	0.0000	13.9645	13.9645	0.0140	0.0000	14.3133
Total	19.9659	0.0998	8.6032	4.5000e-004		0.0469	0.0469		0.0469	0.0469	0.0000	13.9645	13.9645	0.0140	0.0000	14.3133

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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	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	19.6985					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2674	0.0998	8.6032	4.5000e-004		0.0469	0.0469		0.0469	0.0469	0.0000	13.9645	13.9645	0.0140	0.0000	14.3133
Total	19.9659	0.0998	8.6032	4.5000e-004		0.0469	0.0469		0.0469	0.0469	0.0000	13.9645	13.9645	0.0140	0.0000	14.3133

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3,839.878 7	23.1065	0.5723	4,588.079 0
Unmitigated	3,839.878 7	23.1065	0.5723	4,588.079 0

7.2 Water by Land Use**Unmitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	8.56138 / 5.2473	58.2002	0.2812	7.0500e-003	67.3310
Bank (with Drive-Through)	0.677552 / 0.415274	4.6060	0.0223	5.6000e-004	5.3286
City Park	0 / 3.09785	11.2478	4.5000e-004	9.0000e-005	11.2871
Condo/Townhouse	37.5939 / 23.7005	257.9557	1.2349	0.0310	298.0583
Convenience Market (24 Hour)	0.97035 / 0.594731	6.5964	0.0319	8.0000e-004	7.6313
Day-Care Center	0.973593 / 2.50353	13.5418	0.0323	8.6000e-004	14.6043

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	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant w/o Drive Thru	2.85322 / 0.18212	13.7080	0.0935	2.3000e-003	16.7311
Gasoline/Service Station	0.398457 / 0.244215	2.7087	0.0131	3.3000e-004	3.1337
General Light Industry	74.8811 / 0	342.4035	2.4528	0.0603	421.6838
General Office Building	63.3976 / 38.8566	430.9763	2.0824	0.0522	498.5906
Government Office Building	29.2427 / 17.9229	198.7916	0.9605	0.0241	229.9792
High Turnover (Sit Down Restaurant)	10.1077 / 0.645171	48.5612	0.3312	8.1500e-003	59.2708
Home Improvement Superstore	14.9626 / 9.17066	101.7159	0.4915	0.0123	117.6737
Hotel	2.56204 / 0.284672	12.7489	0.0840	2.0700e-003	15.4651
Industrial Park	185.162 / 0	846.6769	6.0652	0.1490	1,042.7170
Medical Office Building	43.1917 / 8.22698	227.3704	1.4160	0.0350	273.2037
Mobile Home Park	6.18963 / 3.90216	42.4710	0.2033	5.1000e-003	49.0737
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	4.64407 / 0.29643	22.3119	0.1522	3.7500e-003	27.2326
Refrigerated Warehouse-Rail	13.0957 / 0	59.8817	0.4290	0.0105	73.7468
Retirement Community	5.21232 / 3.28603	35.7651	0.1712	4.2900e-003	41.3253
Single Family Housing	18.8295 / 11.8708	129.2014	0.6185	0.0155	149.2875
Strip Mall	64.7757 / 39.7012	440.3443	2.1276	0.0533	509.4283

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	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	116.365 / 0	532.0942	3.8117	0.0937	655.2956
Total		3,839.878 7	23.1065	0.5723	4,588.079 0

7.2 Water by Land Use**Mitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	8.56138 / 5.2473	58.2002	0.2812	7.0500e- 003	67.3310
Bank (with Drive- Through)	0.677552 / 0.415274	4.6060	0.0223	5.6000e- 004	5.3286
City Park	0 / 3.09785	11.2478	4.5000e- 004	9.0000e- 005	11.2871
Condo/Townhous e	37.5939 / 23.7005	257.9557	1.2349	0.0310	298.0583
Convenience Market (24 Hour)	0.97035 / 0.594731	6.5964	0.0319	8.0000e- 004	7.6313
Day-Care Center	0.973593 / 2.50353	13.5418	0.0323	8.6000e- 004	14.6043
Fast Food Restaurant w/o Drive Thru	2.85322 / 0.18212	13.7080	0.0935	2.3000e- 003	16.7311
Gasoline/Service Station	0.398457 / 0.244215	2.7087	0.0131	3.3000e- 004	3.1337
General Light Industry	74.8811 / 0	342.4035	2.4528	0.0603	421.6838
General Office Building	63.3976 / 38.8566	430.9763	2.0824	0.0522	498.5906

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	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government Office Building	29.2427 / 17.9229	198.7916	0.9605	0.0241	229.9792
High Turnover (Sit Down Restaurant)	10.1077 / 0.645171	48.5612	0.3312	8.1500e-003	59.2708
Home Improvement Superstore	14.9626 / 9.17066	101.7159	0.4915	0.0123	117.6737
Hotel	2.56204 / 0.284672	12.7489	0.0840	2.0700e-003	15.4651
Industrial Park	185.162 / 0	846.6769	6.0652	0.1490	1,042.7170
Medical Office Building	43.1917 / 8.22698	227.3704	1.4160	0.0350	273.2037
Mobile Home Park	6.18963 / 3.90216	42.4710	0.2033	5.1000e-003	49.0737
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	4.64407 / 0.29643	22.3119	0.1522	3.7500e-003	27.2326
Refrigerated Warehouse-Rail	13.0957 / 0	59.8817	0.4290	0.0105	73.7468
Retirement Community	5.21232 / 3.28603	35.7651	0.1712	4.2900e-003	41.3253
Single Family Housing	18.8295 / 11.8708	129.2014	0.6185	0.0155	149.2875
Strip Mall	64.7757 / 39.7012	440.3443	2.1276	0.0533	509.4283
Unrefrigerated Warehouse-No Rail	116.365 / 0	532.0942	3.8117	0.0937	655.2956
Total		3,839.8787	23.1065	0.5723	4,588.0790

8.0 Waste Detail**8.1 Mitigation Measures Waste**

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Category/Year

	Total CO2	CH4	N2O	CO2e
MT/yr				
Mitigated	2,227.336 6	131.6318	0.0000	5,518.132 2
Unmitigated	2,227.336 6	131.6318	0.0000	5,518.132 2

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use					
Automobile Care Center	347.62	70.5637	4.1702	0.0000	174.8186
Bank (with Drive-Through)	15.95	3.2377	0.1913	0.0000	8.0213
City Park	0.22	0.0447	2.6400e-003	0.0000	0.1106
Condo/Townhouse	265.42	53.8779	3.1841	0.0000	133.4801
Convenience Market (24 Hour)	39.37	7.9918	0.4723	0.0000	19.7992
Day-Care Center	29.51	5.9903	0.3540	0.0000	14.8406

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	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant w/o Drive Thru	108.28	21.9799	1.2990	0.0000	54.4542
Gasoline/Service Station	16.17	3.2824	0.1940	0.0000	8.1319
General Light Industry	401.52	81.5049	4.8168	0.0000	201.9250
General Office Building	331.73	67.3382	3.9796	0.0000	166.8275
Government Office Building	136.9	27.7895	1.6423	0.0000	68.8472
High Turnover (Sit Down Restaurant)	396.27	80.4392	4.7538	0.0000	199.2848
Home Improvement Superstore	2240.01	454.7018	26.8721	0.0000	1,126.5044
Hotel	55.3	11.2254	0.6634	0.0000	27.8105
Industrial Park	992.87	201.5436	11.9109	0.0000	499.3158
Medical Office Building	3717.47	754.6128	44.5963	0.0000	1,869.5213
Mobile Home Park	43.7	8.8707	0.5242	0.0000	21.9768
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.96	2.8338	0.1675	0.0000	7.0205
Refrigerated Warehouse-Rail	53.23	10.8052	0.6386	0.0000	26.7695
Retirement Community	36.8	7.4701	0.4415	0.0000	18.5068
Single Family Housing	339.07	68.8282	4.0676	0.0000	170.5188
Strip Mall	918.21	186.3883	11.0152	0.0000	461.7692

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	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	473.01	96.0168	5.6744	0.0000	237.8775
Total		2,227.3366	131.6318	0.0000	5,518.1322

8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	347.62	70.5637	4.1702	0.0000	174.8186
Bank (with Drive-Through)	15.95	3.2377	0.1913	0.0000	8.0213
City Park	0.22	0.0447	2.6400e-003	0.0000	0.1106
Condo/Townhouse	265.42	53.8779	3.1841	0.0000	133.4801
Convenience Market (24 Hour)	39.37	7.9918	0.4723	0.0000	19.7992
Day-Care Center	29.51	5.9903	0.3540	0.0000	14.8406
Fast Food Restaurant w/o Drive Thru	108.28	21.9799	1.2990	0.0000	54.4542
Gasoline/Service Station	16.17	3.2824	0.1940	0.0000	8.1319
General Light Industry	401.52	81.5049	4.8168	0.0000	201.9250
General Office Building	331.73	67.3382	3.9796	0.0000	166.8275

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	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	136.9	27.7895	1.6423	0.0000	68.8472
High Turnover (Sit Down Restaurant)	396.27	80.4392	4.7538	0.0000	199.2848
Home Improvement Superstore	2240.01	454.7018	26.8721	0.0000	1,126.5044
Hotel	55.3	11.2254	0.6634	0.0000	27.8105
Industrial Park	992.87	201.5436	11.9109	0.0000	499.3158
Medical Office Building	3717.47	754.6128	44.5963	0.0000	1,869.5213
Mobile Home Park	43.7	8.8707	0.5242	0.0000	21.9768
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.96	2.8338	0.1675	0.0000	7.0205
Refrigerated Warehouse-Rail	53.23	10.8052	0.6386	0.0000	26.7695
Retirement Community	36.8	7.4701	0.4415	0.0000	18.5068
Single Family Housing	339.07	68.8282	4.0676	0.0000	170.5188
Strip Mall	918.21	186.3883	11.0152	0.0000	461.7692
Unrefrigerated Warehouse-No Rail	473.01	96.0168	5.6744	0.0000	237.8775
Total	2,227.3366	131.6318	0.0000	5,518.1322	

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Preferred Plan Conditions

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	418.10	1000sqft	9.60	418,100.00	0
Government Office Building	146.10	1000sqft	3.35	146,100.00	0
Medical Office Building	16.40	1000sqft	0.38	16,400.00	0
General Light Industry	81.80	1000sqft	1.88	81,800.00	0
Industrial Park	634.00	1000sqft	14.55	634,000.00	0
Refrigerated Warehouse-Rail	56.60	1000sqft	1.30	56,600.00	0
Unrefrigerated Warehouse-No Rail	476.20	1000sqft	10.93	476,200.00	0
City Park	2.60	Acre	2.60	113,256.00	0
Fast Food Restaurant w/o Drive Thru	3.60	1000sqft	0.08	3,600.00	0
High Turnover (Sit Down Restaurant)	25.70	1000sqft	0.59	25,700.00	0
Quality Restaurant	13.80	1000sqft	0.32	13,800.00	0
Condo/Townhouse	6,913.00	Dwelling Unit	432.06	6,913,000.00	19771
Single Family Housing	279.00	Dwelling Unit	90.58	502,200.00	798
Automobile Care Center	28.00	1000sqft	0.64	28,000.00	0
Convenience Market (24 Hour)	9.70	1000sqft	0.22	9,700.00	0
Gasoline/Service Station	18.00	Pump	0.06	2,541.15	0
Strip Mall	779.40	1000sqft	17.89	779,400.00	0
Hotel	101.00	Room	3.37	146,652.00	0

1.2 Other Project Characteristics

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Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Several Unit amounts converted using the SANDAG "(NOT SO) BRIEF GUIDE OF VEHICULAR TRAFFIC GENERATION RATES FOR THE SAN DIEGO REGION" April 2002

Construction Phase - Not analyzing construction

Off-road Equipment - Not analyzing construction

Trips and VMT - Not analyzing construction

On-road Fugitive Dust - Not analyzing construction

Demolition - Not analyzing construction

Grading - Not analyzing construction

Architectural Coating - Not analyzing construction

Woodstoves - Not analyzing operational use

Consumer Products - Not analyzing operational use

Area Coating - Not analyzing operational use

Landscape Equipment - Not analyzing operational use

Energy Use - Not analyzing operational use

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Water And Wastewater - Not analyzing operational use
 Solid Waste - Not analyzing operational use

Construction Off-road Equipment Mitigation - Not analyzing construction

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Operational Off-Road Equipment - Not analyzing operational use

Stationary Sources - Emergency Generators and Fire Pumps - Not analyzing operational use

Stationary Sources - Process Boilers - Not analyzing operational use

Stationary Sources - User Defined - Not analyzing operational use

Stationary Sources - Emergency Generators and Fire Pumps EF - Not analyzing operational use

Stationary Sources - Process Boilers EF - Not analyzing operational use

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,319,735.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,959,204.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	4,704,885.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	14,114,655.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	1319735	9927685
tblAreaCoating	Area_Nonresidential_Interior	3959204	29783055
tblAreaCoating	Area_Residential_Exterior	4704885	36123975
tblAreaCoating	Area_Residential_Interior	14114655	108371925
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5

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tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	40
tblConstructionPhase	NumDays	600.00	0.00
tblConstructionPhase	NumDays	360.00	0.00
tblConstructionPhase	NumDays	930.00	0.00
tblConstructionPhase	NumDays	9,300.00	0.00
tblConstructionPhase	NumDays	660.00	0.00
tblConstructionPhase	NumDays	660.00	0.00
tblConstructionPhase	PhaseEndDate	10/15/2020	6/28/2018
tblConstructionPhase	PhaseEndDate	3/3/2022	6/28/2018
tblConstructionPhase	PhaseEndDate	9/25/2025	6/28/2018
tblConstructionPhase	PhaseEndDate	5/19/2061	6/28/2018
tblConstructionPhase	PhaseEndDate	11/29/2063	6/28/2018
tblConstructionPhase	PhaseEndDate	6/10/2066	6/28/2018
tblConstructionPhase	PhaseStartDate	10/16/2020	6/29/2018
tblConstructionPhase	PhaseStartDate	3/4/2022	6/29/2018
tblConstructionPhase	PhaseStartDate	9/26/2025	6/29/2018
tblConstructionPhase	PhaseStartDate	5/20/2061	6/29/2018
tblConstructionPhase	PhaseStartDate	11/30/2063	6/29/2018
tblFireplaces	NumberGas	3,557.40	0.00
tblFireplaces	NumberGas	153.45	0.00
tblFireplaces	NumberNoFireplace	646.80	0.00
tblFireplaces	NumberNoFireplace	27.90	0.00
tblFireplaces	NumberWood	2,263.80	0.00
tblFireplaces	NumberWood	97.65	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

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tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblSolidWaste	SolidWasteGenerationRate	56.92	298.34
tblSolidWaste	SolidWasteGenerationRate	0.22	106.08
tblSolidWaste	SolidWasteGenerationRate	2,975.28	13,799.54
tblSolidWaste	SolidWasteGenerationRate	29.15	79.64
tblSolidWaste	SolidWasteGenerationRate	41.47	960.68
tblSolidWaste	SolidWasteGenerationRate	9.70	49.58
tblSolidWaste	SolidWasteGenerationRate	101.43	1,256.74
tblSolidWaste	SolidWasteGenerationRate	388.83	3,253.51
tblSolidWaste	SolidWasteGenerationRate	135.87	146.29
tblSolidWaste	SolidWasteGenerationRate	305.83	1,516.06
tblSolidWaste	SolidWasteGenerationRate	786.16	2,329.46
tblSolidWaste	SolidWasteGenerationRate	177.12	2,583.36
tblSolidWaste	SolidWasteGenerationRate	12.59	34.67
tblSolidWaste	SolidWasteGenerationRate	327.18	14,964.59
tblSolidWaste	SolidWasteGenerationRate	777.00	3,878.07
tblSolidWaste	SolidWasteGenerationRate	447.63	831.90
tblTripsAndVMT	VendorTripNumber	1,172.00	0.00
tblTripsAndVMT	WorkerTripNumber	5,779.00	0.00
tblTripsAndVMT	WorkerTripNumber	1,156.00	0.00
tblWater	IndoorWaterUseRate	1,401,808.50	7,347,734.49

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tblWater	IndoorWaterUseRate	421,416,237.72	1,954,555,614.62
tblWater	IndoorWaterUseRate	718,503.46	1,962,921.82
tblWater	IndoorWaterUseRate	1,092,721.36	25,314,711.62
tblWater	IndoorWaterUseRate	239,074.00	1,221,933.79
tblWater	IndoorWaterUseRate	18,916,250.00	234,371,875.00
tblWater	IndoorWaterUseRate	74,310,480.04	621,783,743.98
tblWater	IndoorWaterUseRate	29,024,180.10	31,249,168.59
tblWater	IndoorWaterUseRate	7,800,816.41	38,670,194.96
tblWater	IndoorWaterUseRate	146,612,500.00	434,426,250.00
tblWater	IndoorWaterUseRate	2,057,880.82	30,014,944.58
tblWater	IndoorWaterUseRate	4,188,765.23	11,534,281.07
tblWater	IndoorWaterUseRate	18,177,973.15	831,495,674.98
tblWater	IndoorWaterUseRate	54,813,665.90	273,579,450.85
tblWater	IndoorWaterUseRate	110,121,250.00	204,656,250.00
tblWater	OutdoorWaterUseRate	859,172.95	4,503,450.17
tblWater	OutdoorWaterUseRate	3,097,851.51	1,469,704,159.62
tblWater	OutdoorWaterUseRate	265,675,454.21	1,232,219,844.00
tblWater	OutdoorWaterUseRate	440,373.09	1,203,081.12
tblWater	OutdoorWaterUseRate	69,748.17	1,615,832.66
tblWater	OutdoorWaterUseRate	146,529.23	748,927.15
tblWater	OutdoorWaterUseRate	45,545,132.93	381,093,262.44
tblWater	OutdoorWaterUseRate	17,789,013.61	19,152,716.23
tblWater	OutdoorWaterUseRate	497,924.45	2,468,310.32
tblWater	OutdoorWaterUseRate	391,977.30	5,717,132.30
tblWater	OutdoorWaterUseRate	267,367.99	736,230.71
tblWater	OutdoorWaterUseRate	11,460,026.55	524,203,795.10
tblWater	OutdoorWaterUseRate	33,595,472.65	167,677,727.94

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tblWoodstoves	NumberCatalytic	323.40	0.00
tblWoodstoves	NumberCatalytic	13.95	0.00
tblWoodstoves	NumberNoncatalytic	323.40	0.00
tblWoodstoves	NumberNoncatalytic	13.95	0.00

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

Mitigated Construction

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	41.6407	0.6142	53.2394	2.8200e-003		0.2962	0.2962		0.2962	0.2962	0.0000	87.2805	87.2805	0.0832	0.0000	89.3597
Energy	0.7668	6.6593	3.5703	0.0418		0.5298	0.5298		0.5298	0.5298	0.0000	30,288.64 37	30,288.64 37	1.0591	0.3282	30,412.91 47
Mobile	15.3936	74.6667	171.4632	0.7142	82.6775	0.3724	83.0499	22.1318	0.3460	22.4778	0.0000	66,675.00 50	66,675.00 50	3.3257	0.0000	66,758.14 79
Waste						0.0000	0.0000		0.0000	0.0000	9,366.356 2	0.0000	9,366.356 2	553.5358	0.0000	23,204.75 11
Water						0.0000	0.0000		0.0000	0.0000	1,495.940 9	33,902.60 90	35,398.54 99	155.0121	3.9103	40,439.115 1
Total	57.8011	81.9402	228.2728	0.7589	82.6775	1.1984	83.8760	22.1318	1.1721	23.3039	10,862.29 72	130,953.5 382	141,815.8 353	713.0159	4.2384	160,904.2 884

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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	41.6407	0.6142	53.2394	2.8200e-003		0.2962	0.2962		0.2962	0.2962	0.0000	87.2805	87.2805	0.0832	0.0000	89.3597	
Energy	0.7668	6.6593	3.5703	0.0418		0.5298	0.5298		0.5298	0.5298	0.0000	30,288.64 37	30,288.64 37	1.0591	0.3282	30,412.91 47	
Mobile	14.2327	69.8256	148.5348	0.5951	67.5551	0.3155	67.8706	18.0837	0.2931	18.3768	0.0000	55,599.34 24	55,599.34 24	2.8485	0.0000	55,670.55 44	
Waste						0.0000	0.0000		0.0000	0.0000	9,366.356 2	0.0000	9,366.356 2	553.5358	0.0000	23,204.751 1	
Water						0.0000	0.0000		0.0000	0.0000	1,495.940 9	33,902.60 90	35,398.54 99	155.0121	3.9103	40,439.115 1	
Total	56.6402	77.0990	205.3445	0.6398	67.5551	1.1416	68.6966	18.0837	1.1191	19.2028	10,862.29 72	119,877.8 755	130,740.1 727	712.5387	4.2384	149,816.6 950	

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	2.01	5.91	10.04	15.69	18.29	4.75	18.10	18.29	4.52	17.60	0.00	8.46	7.81	0.07	0.00	6.89

3.0 Construction Detail**Construction Phase**

Morena Boulevard VMT - San Diego County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/29/2018	6/28/2018	5	0	
2	Site Preparation	Site Preparation	6/29/2018	6/28/2018	5	0	
3	Grading	Grading	6/29/2018	6/28/2018	5	0	
4	Building Construction	Building Construction	6/29/2018	6/28/2018	5	0	
5	Paving	Paving	6/29/2018	6/28/2018	5	0	
6	Architectural Coating	Architectural Coating	6/29/2018	6/28/2018	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; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Morena Boulevard VMT - San Diego County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

Morena Boulevard VMT - San Diego County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2018

Unmitigated Construction On-Site

Morena Boulevard VMT - San Diego County, Annual

3.2 Demolition - 2018

Unmitigated Construction Off-Site

Mitigated Construction On-Site

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3.2 Demolition - 2018

Mitigated Construction Off-Site

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

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3.3 Site Preparation - 2018

Unmitigated Construction Off-Site

Mitigated Construction On-Site

Morena Boulevard VMT - San Diego County, Annual

3.3 Site Preparation - 2018

Mitigated Construction Off-Site

3.4 Grading - 2018

Unmitigated Construction On-Site

Morena Boulevard VMT - San Diego County, Annual

3.4 Grading - 2018

Unmitigated Construction Off-Site

Mitigated Construction On-Site

Morena Boulevard VMT - San Diego County, Annual

3.4 Grading - 2018

Mitigated Construction Off-Site

3.5 Building Construction - 2018

Unmitigated Construction On-Site

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3.5 Building Construction - 2018

Unmitigated Construction Off-Site

Mitigated Construction On-Site

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3.5 Building Construction - 2018

Mitigated Construction Off-Site

3.6 Paving - 2018

Unmitigated Construction On-Site

Morena Boulevard VMT - San Diego County, Annual

3.6 Paving - 2018

Unmitigated Construction Off-Site

Mitigated Construction On-Site

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3.6 Paving - 2018

Mitigated Construction Off-Site

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

Morena Boulevard VMT - San Diego County, Annual

3.7 Architectural Coating - 2018

Unmitigated Construction Off-Site

Mitigated Construction On-Site

Morena Boulevard VMT - San Diego County, Annual

3.7 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000								

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Morena Boulevard VMT - San Diego County, Annual

Increase Density

Increase Diversity

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

Provide Traffic Calming Measures

Provide BRT System

Expand Transit Network

Increase Transit Frequency

Encourage Telecommuting and Alternative Work Schedules

Provide Ride Sharing Program

	ROG	NOx	CO	SO2	Fugitive 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	14.2327	69.8256	148.5348	0.5951	67.5551	0.3155	67.8706	18.0837	0.2931	18.3768	0.0000	55,599.34 24	55,599.34 24	2.8485	0.0000	55,670.55 44
Unmitigated	15.3936	74.6667	171.4632	0.7142	82.6775	0.3724	83.0499	22.1318	0.3460	22.4778	0.0000	66,675.00 50	66,675.00 50	3.3257	0.0000	66,758.14 79

4.2 Trip Summary Information

Morena Boulevard VMT - San Diego County, Annual

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	664.16	664.16	332.64	614,448	496,889
City Park	4.91	59.15	43.52	38,807	31,382
Condo/Townhouse	40,164.53	39,196.71	33458.92	111,551,922	91,991,672
Convenience Market (24 Hour)	7,158.50	8,372.07	7356.97	5,605,375	4,537,578
Fast Food Restaurant w/o Drive Thru	2,577.60	2,505.60	1800.00	3,960,836	3,206,246
Gasoline/Service Station	3,034.08	3,034.08	3034.08	1,748,141	1,415,076
General Light Industry	570.15	107.98	55.62	1,257,196	1,012,717
General Office Building	4,611.64	1,028.53	439.01	8,372,924	6,770,919
Government Office Building	10,070.67	0.00	0.00	12,335,714	9,896,719
High Turnover (Sit Down Restaurant)	3,267.76	4,070.11	3388.29	3,944,431	3,192,208
Industrial Park	4,330.22	1,578.66	462.82	8,873,982	7,148,315
Medical Office Building	592.53	146.94	25.42	876,575	708,931
Quality Restaurant	1,241.31	1,302.17	995.81	1,441,112	1,166,151
Refrigerated Warehouse-Rail	95.09	95.09	95.09	277,610	226,936
Single Family Housing	2,656.08	2,764.89	2404.98	7,525,874	6,206,238
Strip Mall	34,543.01	32,765.98	15923.14	48,709,960	39,410,128
Unrefrigerated Warehouse-No Rail	800.02	800.02	800.02	2,335,656	1,909,308
Total	116,382.26	98,492.12	70,616.32	219,470,563	179,327,412

4.3 Trip Type Information

Morena Boulevard VMT - San Diego County, Annual

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Convenience Market (24 Hour)	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61
Fast Food Restaurant w/o Drive	9.50	7.30	7.30	1.50	79.50	19.00	51	37	12
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	38	18	44
Refrigerated Warehouse-Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Condo/Townhouse	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Convenience Market (24 Hour)	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Fast Food Restaurant w/o Drive Thru	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Gasoline/Service Station	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Light Industry	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Government Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
High Turnover (Sit Down Restaurant)	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Industrial Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Medical Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Quality Restaurant	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Refrigerated Warehouse-Rail	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Single Family Housing	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Strip Mall	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Unrefrigerated Warehouse-No Rail	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	22,699.97 41	22,699.97 41	0.9137	0.1890	22,779.14 94	
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	22,699.97 41	22,699.97 41	0.9137	0.1890	22,779.14 94	
NaturalGas Mitigated	0.7668	6.6593	3.5703	0.0418		0.5298	0.5298		0.5298	0.5298	0.0000	7,588.669 6	7,588.669 6	0.1455	0.1391	7,633.765 3	
NaturalGas Unmitigated	0.7668	6.6593	3.5703	0.0418		0.5298	0.5298		0.5298	0.5298	0.0000	7,588.669 6	7,588.669 6	0.1455	0.1391	7,633.765 3	

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					
Automobile Care Center	323680	1.7500e-003	0.0159	0.0133	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	17.2728	17.2728	3.3000e-004	3.2000e-004	17.3754	
City Park	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	
Condo/Townhouse	9.94286e+007	0.5361	4.5815	1.9496	0.0292		0.3704	0.3704		0.3704	0.3704	0.0000	5,305.891 0	5,305.891 0	0.1017	0.0973	5,337.421 2	
Convenience Market (24 Hour)	21631	1.2000e-004	1.0600e-003	8.9000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1543	1.1543	2.0000e-005	2.0000e-005	1.1612	
Fast Food Restaurant w/o Drive Thru	627768	3.3900e-003	0.0308	0.0259	1.8000e-004		2.3400e-003	2.3400e-003		2.3400e-003	2.3400e-003	0.0000	33.5001	33.5001	6.4000e-004	6.1000e-004	33.6992	

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	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					
Gasoline/Service Station	29375.7	1.6000e-004	1.4400e-003	1.2100e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5676	1.5676	3.0000e-005	3.0000e-005	1.5769	
General Light Industry	945608	5.1000e-003	0.0464	0.0389	2.8000e-004		3.5200e-003	3.5200e-003		3.5200e-003	3.5200e-003	0.0000	50.4612	50.4612	9.7000e-004	9.3000e-004	50.7611	
General Office Building	8.44144e+006	0.0455	0.4138	0.3476	2.4800e-003		0.0315	0.0315		0.0315	0.0315	0.0000	450.4673	450.4673	8.6300e-003	8.2600e-003	453.1442	
Government Office Building	2.94976e+006	0.0159	0.1446	0.1215	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	157.4104	157.4104	3.0200e-003	2.8900e-003	158.3458	
High Turnover (Sit Down Restaurant)	4.48157e+006	0.0242	0.2197	0.1845	1.3200e-003		0.0167	0.0167		0.0167	0.0167	0.0000	239.1534	239.1534	4.5800e-003	4.3800e-003	240.5746	
Industrial Park	1.28005e+007	0.0690	0.6275	0.5271	3.7600e-003		0.0477	0.0477		0.0477	0.0477	0.0000	683.0813	683.0813	0.0131	0.0125	687.1405	
Medical Office Building	331116	1.7900e-003	0.0162	0.0136	1.0000e-004		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	17.6696	17.6696	3.4000e-004	3.2000e-004	17.7746	
Quality Restaurant	2.40644e+006	0.0130	0.1180	0.0991	7.1000e-004		8.9700e-003	8.9700e-003		8.9700e-003	8.9700e-003	0.0000	128.4170	128.4170	2.4600e-003	2.3500e-003	129.1801	
Refrigerated Warehouse-Rail	360542	1.9400e-003	0.0177	0.0149	1.1000e-004		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003	0.0000	19.2399	19.2399	3.7000e-004	3.5000e-004	19.3542	
Single Family Housing	6.52495e+006	0.0352	0.3007	0.1279	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	348.1962	348.1962	6.6700e-003	6.3800e-003	350.2654	
Strip Mall	1.73806e+006	9.3700e-003	0.0852	0.0716	5.1000e-004		6.4800e-003	6.4800e-003		6.4800e-003	6.4800e-003	0.0000	92.7496	92.7496	1.7800e-003	1.7000e-003	93.3008	
Unrefrigerated Warehouse-No Rail	795254	4.2900e-003	0.0390	0.0328	2.3000e-004		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	42.4378	42.4378	8.1000e-004	7.8000e-004	42.6900	
Total		0.7668	6.6593	3.5703	0.0418		0.5298	0.5298		0.5298	0.5298	0.0000	7,588.669	7,588.669	0.1454	0.1391	7,633.765	

5.2 Energy by Land Use - NaturalGas**Mitigated**

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	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					
Automobile Care Center	323680	1.7500e-003	0.0159	0.0133	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	17.2728	17.2728	3.3000e-004	3.2000e-004	17.3754	
City Park	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	
Condo/Townhouse	9.94286e+007	0.5361	4.5815	1.9496	0.0292		0.3704	0.3704		0.3704	0.3704	0.0000	5,305.8910	5,305.8910	0.1017	0.0973	5,337.4212	
Convenience Market (24 Hour)	21631	1.2000e-004	1.0600e-003	8.9000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1543	1.1543	2.0000e-005	2.0000e-005	1.1612	
Fast Food Restaurant w/o Drive Thru	627768	3.3900e-003	0.0308	0.0259	1.8000e-004		2.3400e-003	2.3400e-003		2.3400e-003	2.3400e-003	0.0000	33.5001	33.5001	6.4000e-004	6.1000e-004	33.6992	
Gasoline/Service Station	29375.7	1.6000e-004	1.4400e-003	1.2100e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5676	1.5676	3.0000e-005	3.0000e-005	1.5769	
General Light Industry	945608	5.1000e-003	0.0464	0.0389	2.8000e-004		3.5200e-003	3.5200e-003		3.5200e-003	3.5200e-003	0.0000	50.4612	50.4612	9.7000e-004	9.3000e-004	50.7611	
General Office Building	8.44144e+006	0.0455	0.4138	0.3476	2.4800e-003		0.0315	0.0315		0.0315	0.0315	0.0000	450.4673	450.4673	8.6300e-003	8.2600e-003	453.1442	
Government Office Building	2.94976e+006	0.0159	0.1446	0.1215	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	157.4104	157.4104	3.0200e-003	2.8900e-003	158.3458	
High Turnover (Sit Down Restaurant)	4.48157e+006	0.0242	0.2197	0.1845	1.3200e-003		0.0167	0.0167		0.0167	0.0167	0.0000	239.1534	239.1534	4.5800e-003	4.3800e-003	240.5746	
Industrial Park	1.28005e+007	0.0690	0.6275	0.5271	3.7600e-003		0.0477	0.0477		0.0477	0.0477	0.0000	683.0813	683.0813	0.0131	0.0125	687.1405	
Medical Office Building	331116	1.7900e-003	0.0162	0.0136	1.0000e-004		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	17.6696	17.6696	3.4000e-004	3.2000e-004	17.7746	
Quality Restaurant	2.40644e+006	0.0130	0.1180	0.0991	7.1000e-004		8.9700e-003	8.9700e-003		8.9700e-003	8.9700e-003	0.0000	128.4170	128.4170	2.4600e-003	2.3500e-003	129.1801	
Refrigerated Warehouse-Rail	360542	1.9400e-003	0.0177	0.0149	1.1000e-004		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003	0.0000	19.2399	19.2399	3.7000e-004	3.5000e-004	19.3542	
Single Family Housing	6.52495e+006	0.0352	0.3007	0.1279	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	348.1962	348.1962	6.6700e-003	6.3800e-003	350.2654	
Strip Mall	1.73806e+006	9.3700e-003	0.0852	0.0716	5.1000e-004		6.4800e-003	6.4800e-003		6.4800e-003	6.4800e-003	0.0000	92.7496	92.7496	1.7800e-003	1.7000e-003	93.3008	
Unrefrigerated Warehouse-No Rail	795254	4.2900e-003	0.0390	0.0328	2.3000e-004		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	42.4378	42.4378	8.1000e-004	7.8000e-004	42.6900	

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Total		0.7668	6.6593	3.5703	0.0418		0.5298	0.5298		0.5298	0.5298	0.0000	7,588.669 6	7,588.669 6	0.1454	0.1391	7,633.765 2
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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	232680	76.0419	3.0600e-003	6.3000e-004	76.3071
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	3.47263e+007	11,348.8528	0.4568	0.0945	11,388.4365
Convenience Market (24 Hour)	121832	39.8158	1.6000e-003	3.3000e-004	39.9546
Fast Food Restaurant w/o Drive Thru	139320	45.5310	1.8300e-003	3.8000e-004	45.6898
Gasoline/Service Station	21117	6.9012	2.8000e-004	6.0000e-005	6.9253
General Light Industry	679758	222.1509	8.9400e-003	1.8500e-003	222.9257
General Office Building	5.61926e+006	1,836.4247	0.0739	0.0153	1,842.830
Government Office Building	1.96358e+006	641.7165	0.0258	5.3400e-003	643.9547
High Turnover (Sit Down Restaurant)	994590	325.0407	0.0131	2.7100e-003	326.1744
Industrial Park	8.52096e+006	2,784.7244	0.1121	0.0232	2,794.4373
Medical Office Building	220416	72.0339	2.9000e-003	6.0000e-004	72.2851
Quality Restaurant	534060	174.5355	7.0300e-003	1.4500e-003	175.1443

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Refrigerated Warehouse-Rail	1.8995e +006	620.7720	0.0250	5.1700e-003	622.9371
Single Family Housing	2.25875e +006	738.1795	0.0297	6.1500e-003	740.7542
Strip Mall	9.78926e +006	3,199.2173	0.1288	0.0266	3,210.3759
Unrefrigerated Warehouse-No Rail	1.73813e +006	568.0361	0.0229	4.7300e-003	570.0174
Total		22,699.9741	0.9137	0.1890	22,779.1494

5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	232680	76.0419	3.0600e-003	6.3000e-004	76.3071
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	3.47263e +007	11,348.8528	0.4568	0.0945	11,388.4365
Convenience Market (24 Hour)	121832	39.8158	1.6000e-003	3.3000e-004	39.9546
Fast Food Restaurant w/o Drive Thru	139320	45.5310	1.8300e-003	3.8000e-004	45.6898
Gasoline/Service Station	21117	6.9012	2.8000e-004	6.0000e-005	6.9253
General Light Industry	679758	222.1509	8.9400e-003	1.8500e-003	222.9257

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	5.61926e +006	1,836.4247	0.0739	0.0153	1,842.8300
Government Office Building	1.96358e +006	641.7165	0.0258	5.3400e-003	643.9547
High Turnover (Sit Down Restaurant)	994590	325.0407	0.0131	2.7100e-003	326.1744
Industrial Park	8.52096e +006	2,784.7244	0.1121	0.0232	2,794.4373
Medical Office Building	220416	72.0339	2.9000e-003	6.0000e-004	72.2851
Quality Restaurant	534060	174.5355	7.0300e-003	1.4500e-003	175.1443
Refrigerated Warehouse-Rail	1.8995e +006	620.7720	0.0250	5.1700e-003	622.9371
Single Family Housing	2.25875e +006	738.1795	0.0297	6.1500e-003	740.7542
Strip Mall	9.78926e +006	3,199.2173	0.1288	0.0266	3,210.3759
Unrefrigerated Warehouse-No Rail	1.73813e +006	568.0361	0.0229	4.7300e-003	570.0174
Total		22,699.9741	0.9137	0.1890	22,779.1494

6.0 Area Detail**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Mitigated	41.6407	0.6142	53.2394	2.8200e-003		0.2962	0.2962		0.2962	0.2962	0.0000	87.2805	87.2805	0.0832	0.0000	89.3597	
Unmitigated	41.6407	0.6142	53.2394	2.8200e-003		0.2962	0.2962		0.2962	0.2962	0.0000	87.2805	87.2805	0.0832	0.0000	89.3597	

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	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	40.0473					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.5934	0.6142	53.2394	2.8200e-003		0.2962	0.2962		0.2962	0.2962	0.0000	87.2805	87.2805	0.0832	0.0000	89.3597
Total	41.6407	0.6142	53.2394	2.8200e-003		0.2962	0.2962		0.2962	0.2962	0.0000	87.2805	87.2805	0.0832	0.0000	89.3597

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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	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	40.0473					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.5934	0.6142	53.2394	2.8200e-003		0.2962	0.2962		0.2962	0.2962	0.0000	87.2805	87.2805	0.0832	0.0000	89.3597
Total	41.6407	0.6142	53.2394	2.8200e-003		0.2962	0.2962		0.2962	0.2962	0.0000	87.2805	87.2805	0.0832	0.0000	89.3597

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	35,398.54 99	155.0121	3.9103	40,439.115 1
Unmitigated	35,398.54 99	155.0121	3.9103	40,439.11 51

7.2 Water by Land Use**Unmitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	7.34773 / 4.50345	49.9498	0.2413	6.0500e-003	57.7863
City Park	0 / 1469.7 6	5,336.268	0.2148	0.0444	5,354.881 0
Condo/Townhouse	1954.56 / 1232.22	13,411.46 10	64.2041	1.6104	15,496.45 11
Convenience Market (24 Hour)	1.96292 / 1.20308	13.3439	0.0645	1.6200e-003	15.4374
Fast Food Restaurant w/o Drive Thru	25.3147 / 1.61583	121.6217	0.8295	0.0204	148.4441
Gasoline/Service Station	1.22193 / 0.748927	8.3067	0.0401	1.0100e-003	9.6099

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	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	234.372 / 0	1,071.696	7.6772	0.1886	1,319.837
General Office Building	621.784 / 381.093	4,226.878	20.4230	0.5120	4,890.017
Government Office Building	31.2492 / 19.1527	212.4315	1.0264	0.0257	245.7591
High Turnover (Sit Down Restaurant)	38.6702 / 2.46831	185.7866	1.2671	0.0312	226.7599
Industrial Park	434.426 / 0	1,986.470	14.2302	0.3496	2,446.419
Medical Office Building	30.0149 / 5.71713	158.0053	0.9840	0.0243	189.8560
Quality Restaurant	11.5343 / 0.736231	55.4152	0.3779	9.3100e-003	67.6364
Refrigerated Warehouse-Rail	13.0957 / 0	59.8817	0.4290	0.0105	73.7468
Single Family Housing	831.496 / 524.204	5,705.425	27.3133	0.6851	6,592.410
Strip Mall	273.579 / 167.678	1,859.789	8.9860	0.2253	2,151.565
Unrefrigerated Warehouse-No Rail	204.656 / 0	935.8175	6.7038	0.1647	1,152.497
Total		35,398.54	155.0121	3.9103	40,439.11
		99		51	

7.2 Water by Land Use**Mitigated**

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	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	7.34773 / 4.50345	49.9498	0.2413	6.0500e-003	57.7863
City Park	0 / 1469.7	5,336.268	0.2148	0.0444	5,354.881
Condo/Townhouse	1954.56 / 1232.22	13,411.461	64.2041	1.6104	15,496.451
Convenience Market (24 Hour)	1.96292 / 1.20308	13.3439	0.0645	1.6200e-003	15.4374
Fast Food Restaurant w/o Drive Thru	25.3147 / 1.61583	121.6217	0.8295	0.0204	148.4441
Gasoline/Service Station	1.22193 / 0.748927	8.3067	0.0401	1.0100e-003	9.6099
General Light Industry	234.372 / 0	1,071.696	7.6772	0.1886	1,319.837
General Office Building	621.784 / 381.093	4,226.878	20.4230	0.5120	4,890.017
Government Office Building	31.2492 / 19.1527	212.4315	1.0264	0.0257	245.7591
High Turnover (Sit Down Restaurant)	38.6702 / 2.46831	185.7866	1.2671	0.0312	226.7599
Industrial Park	434.426 / 0	1,986.470	14.2302	0.3496	2,446.419
Medical Office Building	30.0149 / 5.71713	158.0053	0.9840	0.0243	189.8560
Quality Restaurant	11.5343 / 0.736231	55.4152	0.3779	9.3100e-003	67.6364
Refrigerated Warehouse-Rail	13.0957 / 0	59.8817	0.4290	0.0105	73.7468
Single Family Housing	831.496 / 524.204	5,705.425	27.3133	0.6851	6,592.410
Strip Mall	273.579 / 167.678	1,859.789	8.9860	0.2253	2,151.565
Unrefrigerated Warehouse-No Rail	204.656 / 0	935.8175	6.7038	0.1647	1,152.497

Morena Boulevard VMT - San Diego County, Annual

Total		35,398.54 99	155.0121	3.9103	40,439.11 51
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8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
MT/yr				
Mitigated	9,366.356 2	553.5358	0.0000	23,204.751 1
Unmitigated	9,366.356 2	553.5358	0.0000	23,204.751 1

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
MT/yr					
Automobile Care Center	298.34	60.5603	3.5790	0.0000	150.0356
City Park	106.08	21.5333	1.2726	0.0000	53.3478

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	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	13799.5	2,801.181	165.5451	0.0000	6,939.809
Convenience Market (24 Hour)	79.64	16.1662	0.9554	0.0000	40.0511
Fast Food Restaurant w/o Drive Thru	960.68	195.0094	11.5247	0.0000	483.1274
Gasoline/Service Station	49.58	10.0643	0.5948	0.0000	24.9339
General Light Industry	1256.74	255.1069	15.0764	0.0000	632.0165
General Office Building	3253.51	660.4331	39.0305	0.0000	1,636.1951
Government Office Building	146.29	29.6956	1.7550	0.0000	73.5695
High Turnover (Sit Down Restaurant)	1516.06	307.7465	18.1873	0.0000	762.4289
Industrial Park	2329.46	472.8593	27.9452	0.0000	1,171.4890
Medical Office Building	2583.36	524.3987	30.9911	0.0000	1,299.1757
Quality Restaurant	34.67	7.0377	0.4159	0.0000	17.4356
Refrigerated Warehouse-Rail	53.23	10.8052	0.6386	0.0000	26.7695
Single Family Housing	14964.6	3,037.676	179.5215	0.0000	7,525.7150
Strip Mall	3878.07	787.2132	46.5230	0.0000	1,950.2873
Unrefrigerated Warehouse-No Rail	831.9	168.8682	9.9798	0.0000	418.3638
Total	9,366.356	553.5358	0.0000	23,204.75	
					11

8.2 Waste by Land Use

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Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	298.34	60.5603	3.5790	0.0000	150.0356
City Park	106.08	21.5333	1.2726	0.0000	53.3478
Condo/Townhouse	13799.5	2,801.181	165.5451	0.0000	6,939.809
Convenience Market (24 Hour)	79.64	16.1662	0.9554	0.0000	40.0511
Fast Food Restaurant w/o Drive Thru	960.68	195.0094	11.5247	0.0000	483.1274
Gasoline/Service Station	49.58	10.0643	0.5948	0.0000	24.9339
General Light Industry	1256.74	255.1069	15.0764	0.0000	632.0165
General Office Building	3253.51	660.4331	39.0305	0.0000	1,636.195
Government Office Building	146.29	29.6956	1.7550	0.0000	73.5695
High Turnover (Sit Down Restaurant)	1516.06	307.7465	18.1873	0.0000	762.4289
Industrial Park	2329.46	472.8593	27.9452	0.0000	1,171.489
Medical Office Building	2583.36	524.3987	30.9911	0.0000	1,299.175
Quality Restaurant	34.67	7.0377	0.4159	0.0000	17.4356
Refrigerated Warehouse-Rail	53.23	10.8052	0.6386	0.0000	26.7695
Single Family Housing	14964.6	3,037.676	179.5215	0.0000	7,525.715

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	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Strip Mall	3878.07	787.2132	46.5230	0.0000	1,950.287 3
Unrefrigerated Warehouse-No Rail	831.9	168.8682	9.9798	0.0000	418.3638
Total		9,366.356 2	553.5358	0.0000	23,204.75 11

9.0 Operational Offroad

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

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Mid-Density Conditions

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	621.00	1000sqft	14.26	621,000.00	0
Government Office Building	146.10	1000sqft	3.35	146,100.00	0
Medical Office Building	16.40	1000sqft	0.38	16,400.00	0
Day-Care Center	10.10	1000sqft	0.23	10,100.00	0
General Light Industry	162.00	1000sqft	3.72	162,000.00	0
Industrial Park	737.00	1000sqft	16.92	737,000.00	0
Refrigerated Warehouse-Rail	56.60	1000sqft	1.30	56,600.00	0
Unrefrigerated Warehouse-No Rail	476.20	1000sqft	10.93	476,200.00	0
City Park	2.60	Acre	2.60	113,256.00	0
Fast Food Restaurant w/o Drive Thru	3.60	1000sqft	0.08	3,600.00	0
High Turnover (Sit Down Restaurant)	25.70	1000sqft	0.59	25,700.00	0
Quality Restaurant	13.80	1000sqft	0.32	13,800.00	0
Condo/Townhouse	4,618.00	Dwelling Unit	288.63	4,618,000.00	13207
Single Family Housing	295.00	Dwelling Unit	95.78	531,000.00	844
Automobile Care Center	87.20	1000sqft	2.00	87,200.00	0
Convenience Market (24 Hour)	13.20	1000sqft	0.30	13,200.00	0
Gasoline/Service Station	18.00	Pump	0.06	2,541.15	0
Home Improvement Superstore	21.30	1000sqft	0.49	21,300.00	0
Strip Mall	693.40	1000sqft	15.92	693,400.00	0
Hotel	101.00	Room	3.37	146,652.00	0

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1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Several Unit amounts converted using the SANDAG "(NOT SO) BRIEF GUIDE OF VEHICULAR TRAFFIC GENERATION RATES FOR THE SAN DIEGO REGION" April 2002

Construction Phase - Not analyzing construction

Off-road Equipment - Not analyzing construction

Trips and VMT - Not analyzing construction

On-road Fugitive Dust - Not analyzing construction

Demolition - Not analyzing construction

Grading - Not analyzing construction

Architectural Coating - Not analyzing construction

Woodstoves - Not analyzing operational use

Consumer Products - Not analyzing operational use

Area Coating - Not analyzing operational use

Landscape Equipment - Not analyzing operational use

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Energy Use - Not analyzing operational use

Water And Wastewater - Not analyzing operational use

Solid Waste - Not analyzing operational use

Construction Off-road Equipment Mitigation - Not analyzing construction

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Operational Off-Road Equipment - Not analyzing operational use

Stationary Sources - Emergency Generators and Fire Pumps - Not analyzing operational use

Stationary Sources - Process Boilers - Not analyzing operational use

Stationary Sources - User Defined - Not analyzing operational use

Stationary Sources - Emergency Generators and Fire Pumps EF - Not analyzing operational use

Stationary Sources - Process Boilers EF - Not analyzing operational use

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,516,835.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	4,550,504.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	3,285,225.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	9,855,675.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	1516835	10019015
tblAreaCoating	Area_Nonresidential_Interior	4550504	30057045
tblAreaCoating	Area_Parking	0	13591
tblAreaCoating	Area_Residential_Exterior	3285225	34253415

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tblAreaCoating	Area_Residential_Interior	9855675	102760245
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	40
tblConstructionPhase	NumDays	500.00	0.00
tblConstructionPhase	NumDays	300.00	0.00
tblConstructionPhase	NumDays	775.00	0.00
tblConstructionPhase	NumDays	7,750.00	0.00
tblConstructionPhase	NumDays	550.00	0.00
tblConstructionPhase	NumDays	550.00	0.00
tblFireplaces	NumberGas	2,384.80	0.00
tblFireplaces	NumberGas	162.25	0.00
tblFireplaces	NumberNoFireplace	433.60	0.00
tblFireplaces	NumberNoFireplace	29.50	0.00
tblFireplaces	NumberWood	1,517.60	0.00
tblFireplaces	NumberWood	103.25	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblSolidWaste	SolidWasteGenerationRate	283.06	524.49

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tblSolidWaste	SolidWasteGenerationRate	0.24	106.08
tblSolidWaste	SolidWasteGenerationRate	1,994.56	12,511.54
tblSolidWaste	SolidWasteGenerationRate	39.67	90.16
tblSolidWaste	SolidWasteGenerationRate	41.47	960.68
tblSolidWaste	SolidWasteGenerationRate	9.70	49.58
tblSolidWaste	SolidWasteGenerationRate	200.88	1,356.19
tblSolidWaste	SolidWasteGenerationRate	577.53	3,456.16
tblSolidWaste	SolidWasteGenerationRate	135.87	146.29
tblSolidWaste	SolidWasteGenerationRate	305.83	1,516.06
tblSolidWaste	SolidWasteGenerationRate	236.20	280.56
tblSolidWaste	SolidWasteGenerationRate	913.88	2,457.18
tblSolidWaste	SolidWasteGenerationRate	177.12	2,583.36
tblSolidWaste	SolidWasteGenerationRate	12.59	34.67
tblSolidWaste	SolidWasteGenerationRate	53.23	53.20
tblSolidWaste	SolidWasteGenerationRate	346.04	14,983.45
tblSolidWaste	SolidWasteGenerationRate	686.70	3,787.77
tblSolidWaste	SolidWasteGenerationRate	447.63	831.90
tblTripsAndVMT	VendorTripNumber	1,012.00	0.00
tblTripsAndVMT	WorkerTripNumber	4,399.00	0.00
tblTripsAndVMT	WorkerTripNumber	880.00	0.00
tblWater	IndoorWaterUseRate	6,971,410.06	12,917,336.05
tblWater	IndoorWaterUseRate	282,507,855.09	1,772,124,342.88
tblWater	IndoorWaterUseRate	977,757.28	2,222,175.64
tblWater	IndoorWaterUseRate	1,092,721.36	25,314,711.62
tblWater	IndoorWaterUseRate	239,074.00	1,221,933.79
tblWater	IndoorWaterUseRate	37,462,500.00	252,918,125.00
tblWater	IndoorWaterUseRate	110,372,657.50	660,511,927.67

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tblWater	IndoorWaterUseRate	29,024,180.10	31,249,168.59
tblWater	IndoorWaterUseRate	7,800,816.41	38,670,194.96
tblWater	IndoorWaterUseRate	1,577,744.71	1,874,034.79
tblWater	IndoorWaterUseRate	170,431,250.00	458,245,000.00
tblWater	IndoorWaterUseRate	2,057,880.82	30,014,944.58
tblWater	IndoorWaterUseRate	4,188,765.23	11,534,281.07
tblWater	IndoorWaterUseRate	13,095,687.50	13,088,750.00
tblWater	IndoorWaterUseRate	19,220,437.56	832,538,139.39
tblWater	IndoorWaterUseRate	48,443,429.05	267,209,214.00
tblWater	IndoorWaterUseRate	110,121,250.00	204,656,250.00
tblWater	OutdoorWaterUseRate	4,272,799.72	7,917,076.94
tblWater	OutdoorWaterUseRate	3,336,147.78	1,469,704,159.62
tblWater	OutdoorWaterUseRate	178,102,778.21	1,117,208,824.86
tblWater	OutdoorWaterUseRate	599,270.59	1,361,978.62
tblWater	OutdoorWaterUseRate	69,748.17	1,615,832.66
tblWater	OutdoorWaterUseRate	146,529.23	748,927.15
tblWater	OutdoorWaterUseRate	67,647,757.83	404,829,891.15
tblWater	OutdoorWaterUseRate	17,789,013.61	19,152,716.23
tblWater	OutdoorWaterUseRate	497,924.45	2,468,310.32
tblWater	OutdoorWaterUseRate	967,004.82	1,148,601.97
tblWater	OutdoorWaterUseRate	391,977.30	5,717,132.30
tblWater	OutdoorWaterUseRate	267,367.99	736,230.71
tblWater	OutdoorWaterUseRate	12,117,232.37	524,861,000.92
tblWater	OutdoorWaterUseRate	29,691,133.93	163,773,389.23
tblWoodstoves	NumberCatalytic	216.80	0.00
tblWoodstoves	NumberCatalytic	14.75	0.00
tblWoodstoves	NumberNoncatalytic	216.80	0.00

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tblWoodstoves	NumberNoncatalytic	14.75	0.00
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2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

Mitigated Construction

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall OperationalUnmitigated 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	33.8257	0.4197	36.3807	1.9300e-003		0.2024	0.2024		0.2024	0.2024	0.0000	59.6460	59.6460	0.0569	0.0000	61.0679
Energy	0.6324	5.5335	3.2479	0.0345		0.4369	0.4369		0.4369	0.4369	0.0000	26,721.60 71	26,721.60 71	0.9436	0.2852	26,830.17 19
Mobile	13.8134	67.2650	150.5258	0.6191	71.2251	0.3246	71.5497	19.0661	0.3016	19.3677	0.0000	57,812.81 56	57,812.81 56	2.9088	0.0000	57,885.53 48
Waste						0.0000	0.0000		0.0000	0.0000	9,285.304 0	0.0000	9,285.304 0	548.7457	0.0000	23,003.94 76
Water						0.0000	0.0000		0.0000	0.0000	1,464.679 8	33,161.29 11	34,625.97 09	151.7714	3.8283	39,561.08 72
Total	48.2715	73.2182	190.1543	0.6556	71.2251	0.9639	72.1890	19.0661	0.9409	20.0070	10,749.98 38	117,755.3 599	128,505.3 436	704.4264	4.1134	147,341.8 093

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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	33.8257	0.4197	36.3807	1.9300e-003		0.2024	0.2024		0.2024	0.2024	0.0000	59.6460	59.6460	0.0569	0.0000	61.0679	
Energy	0.6324	5.5335	3.2479	0.0345		0.4369	0.4369		0.4369	0.4369	0.0000	26,721.60 71	26,721.60 71	0.9436	0.2852	26,830.17 19	
Mobile	12.8025	63.0495	130.5606	0.5155	58.0570	0.2751	58.3321	15.5412	0.2555	15.7967	0.0000	48,168.51 08	48,168.51 08	2.4932	0.0000	48,230.84 10	
Waste						0.0000	0.0000		0.0000	0.0000	9,285.304 0	0.0000	9,285.304 0	548.7457	0.0000	23,003.94 76	
Water						0.0000	0.0000		0.0000	0.0000	1,464.679 8	33,161.291 1	34,625.97 09	151.7714	3.8283	39,561.08 72	
Total	47.2606	69.0027	170.1891	0.5519	58.0570	0.9144	58.9714	15.5412	0.8948	16.4360	10,749.98 38	108,111.0 550	118,861.0 388	704.0108	4.1134	137,687.1 155	

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	2.09	5.76	10.50	15.82	18.49	5.14	18.31	18.49	4.90	17.85	0.00	8.19	7.50	0.06	0.00	6.55

3.0 Construction Detail**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/29/2018	6/28/2018	5	0	
2	Site Preparation	Site Preparation	6/29/2018	6/28/2018	5	0	
3	Grading	Grading	6/29/2018	6/28/2018	5	0	
4	Building Construction	Building Construction	6/29/2018	6/28/2018	5	0	
5	Paving	Paving	6/29/2018	6/28/2018	5	0	
6	Architectural Coating	Architectural Coating	6/29/2018	6/28/2018	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; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Architectural Coating		0		0	
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2018

Unmitigated Construction On-Site

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3.2 Demolition - 2018

Unmitigated Construction Off-Site

Mitigated Construction On-Site

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3.2 Demolition - 2018

Mitigated Construction Off-Site

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

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3.3 Site Preparation - 2018

Unmitigated Construction Off-Site

Mitigated Construction On-Site

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3.3 Site Preparation - 2018

Mitigated Construction Off-Site

3.4 Grading - 2018

Unmitigated Construction On-Site

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3.4 Grading - 2018

Unmitigated Construction Off-Site

Mitigated Construction On-Site

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3.4 Grading - 2018

Mitigated Construction Off-Site

3.5 Building Construction - 2018

Unmitigated Construction On-Site

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3.5 Building Construction - 2018

Unmitigated Construction Off-Site

Mitigated Construction On-Site

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3.5 Building Construction - 2018

Mitigated Construction Off-Site

3.6 Paving - 2018

Unmitigated Construction On-Site

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3.6 Paving - 2018

Unmitigated Construction Off-Site

Mitigated Construction On-Site

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3.6 Paving - 2018

Mitigated Construction Off-Site

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

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3.7 Architectural Coating - 2018

Unmitigated Construction Off-Site

Mitigated Construction On-Site

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3.7 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

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Increase Density

Increase Diversity

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

Provide Traffic Calming Measures

Provide BRT System

Expand Transit Network

Increase Transit Frequency

Encourage Telecommuting and Alternative Work Schedules

Provide Ride Sharing Program

	ROG	NOx	CO	SO2	Fugitive 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	12.8025	63.0495	130.5606	0.5155	58.0570	0.2751	58.3321	15.5412	0.2555	15.7967	0.0000	48,168.51 08	48,168.51 08	2.4932	0.0000	48,230.84 10
Unmitigated	13.8134	67.2650	150.5258	0.6191	71.2251	0.3246	71.5497	19.0661	0.3016	19.3677	0.0000	57,812.81 56	57,812.81 56	2.9088	0.0000	57,885.53 48

4.2 Trip Summary Information

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Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	2,068.38	2,068.38	1035.94	1,913,565	1,547,456
City Park	4.91	59.15	43.52	38,807	31,382
Condo/Townhouse	26,830.58	26,184.06	22351.12	74,518,556	61,451,981
Convenience Market (24 Hour)	9,741.47	11,392.92	10011.54	7,627,933	6,174,849
Day-Care Center	748.01	62.72	58.88	649,653	490,334
Fast Food Restaurant w/o Drive Thru	2,577.60	2,505.60	1800.00	3,960,836	3,206,246
Gasoline/Service Station	3,034.08	3,034.08	3034.08	1,748,141	1,415,076
General Light Industry	1,129.14	213.84	110.16	2,489,801	2,005,625
General Office Building	6,849.63	1,527.66	652.05	12,436,226	10,056,782
Government Office Building	10,070.67	0.00	0.00	12,335,714	9,896,719
High Turnover (Sit Down Restaurant)	3,267.76	4,070.11	3388.29	3,944,431	3,192,208
Home Improvement Superstore	654.76	1,208.14	1188.54	866,749	701,124
Industrial Park	5,033.71	1,835.13	538.01	10,315,655	8,309,635
Medical Office Building	592.53	146.94	25.42	876,575	708,931
Quality Restaurant	1,241.31	1,302.17	995.81	1,441,112	1,166,151
Refrigerated Warehouse-Rail	95.09	95.09	95.09	277,610	226,936
Single Family Housing	2,808.40	2,923.45	2542.90	7,957,465	6,562,151
Strip Mall	30,731.49	29,150.54	14166.16	43,335,240	35,061,564
Unrefrigerated Warehouse-No Rail	800.02	800.02	800.02	2,335,656	1,909,308
Total	108,279.54	88,579.99	62,837.53	189,069,726	154,114,455

4.3 Trip Type Information

Morena Blvd MVT - San Diego County, Annual

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Convenience Market (24 Hour)	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61
Day-Care Center	9.50	7.30	7.30	12.70	82.30	5.00	28	58	14
Fast Food Restaurant w/o Drive	9.50	7.30	7.30	1.50	79.50	19.00	51	37	12
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Home Improvement Superstore	9.50	7.30	7.30	23.40	57.60	19.00	32	20	48
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	38	18	44
Refrigerated Warehouse-Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Condo/Townhouse	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Convenience Market (24 Hour)	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Day-Care Center	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Fast Food Restaurant w/o Drive Thru	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Gasoline/Service Station	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Light Industry	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Government Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
High Turnover (Sit Down Restaurant)	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Home Improvement Superstore	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Industrial Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Medical Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Quality Restaurant	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Refrigerated Warehouse-Rail	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Single Family Housing	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Strip Mall	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Unrefrigerated Warehouse-No Rail	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	20,462.95	20,462.95	0.8236	0.1704	20,534.32	
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	20,462.95	20,462.95	0.8236	0.1704	20,534.32	
NaturalGas Mitigated	0.6324	5.5335	3.2479	0.0345		0.4369	0.4369		0.4369	0.4369	0.0000	6,258.654	6,258.654	0.1200	0.1147	6,295.846	
NaturalGas Unmitigated	0.6324	5.5335	3.2479	0.0345		0.4369	0.4369		0.4369	0.4369	0.0000	6,258.654	6,258.654	0.1200	0.1147	6,295.846	

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					
Automobile Care Center	1.00803e+006	5.4400e-003	0.0494	0.0415	3.0000e-004		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003	0.0000	53.7924	53.7924	1.0300e-003	9.9000e-004	54.1121	
City Park	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	
Condo/Townhouse	6.642e+007	0.3582	3.0605	1.3024	0.0195		0.2475	0.2475		0.2475	0.2475	0.0000	3,544.424	3,544.424	0.0679	0.0650	3,565.487	
Convenience Market (24 Hour)	29436	1.6000e-004	1.4400e-003	1.2100e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5708	1.5708	3.0000e-005	3.0000e-005	1.5802	
Day-Care Center	59792	3.2000e-004	2.9300e-003	2.4600e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.1907	3.1907	6.0000e-005	6.0000e-005	3.2097	

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	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					
Fast Food Restaurant w/o Drive Thru	627768	3.3900e-003	0.0308	0.0259	1.8000e-004		2.3400e-003	2.3400e-003		2.3400e-003	2.3400e-003	0.0000	33.5001	33.5001	6.4000e-004	6.1000e-004	33.6992	
Gasoline/Service Station	29375.7	1.6000e-004	1.4400e-003	1.2100e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5676	1.5676	3.0000e-005	3.0000e-005	1.5769	
General Light Industry	1.87272e+006	0.0101	0.0918	0.0771	5.5000e-004		6.9800e-003	6.9800e-003		6.9800e-003	6.9800e-003	0.0000	99.9355	99.9355	1.9200e-003	1.8300e-003	100.5293	
General Office Building	1.2538e+007	0.0676	0.6146	0.5163	3.6900e-003		0.0467	0.0467		0.0467	0.0467	0.0000	669.0749	669.0749	0.0128	0.0123	673.0509	
Government Office Building	2.94976e+006	0.0159	0.1446	0.1215	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	157.4104	157.4104	3.0200e-003	2.8900e-003	158.3458	
High Turnover (Sit Down Restaurant)	4.48157e+006	0.0242	0.2197	0.1845	1.3200e-003		0.0167	0.0167		0.0167	0.0167	0.0000	239.1534	239.1534	4.5800e-003	4.3800e-003	240.5746	
Home Improvement Superstore	47499	2.6000e-004	2.3300e-003	1.9600e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5347	2.5347	5.0000e-005	5.0000e-005	2.5498	
Industrial Park	1.488e+007	0.0802	0.7294	0.6127	4.3800e-003		0.0554	0.0554		0.0554	0.0554	0.0000	794.0551	794.0551	0.0152	0.0146	798.7737	
Medical Office Building	331116	1.7900e-003	0.0162	0.0136	1.0000e-004		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	17.6696	17.6696	3.4000e-004	3.2000e-004	17.7746	
Quality Restaurant	2.40644e+006	0.0130	0.1180	0.0991	7.1000e-004		8.9700e-003	8.9700e-003		8.9700e-003	8.9700e-003	0.0000	128.4170	128.4170	2.4600e-003	2.3500e-003	129.1801	
Refrigerated Warehouse-Rail	360542	1.9400e-003	0.0177	0.0149	1.1000e-004		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003	0.0000	19.2399	19.2399	3.7000e-004	3.5000e-004	19.3542	
Single Family Housing	6.89914e+006	0.0372	0.3179	0.1353	2.0300e-003		0.0257	0.0257		0.0257	0.0257	0.0000	368.1645	368.1645	7.0600e-003	6.7500e-003	370.3523	
Strip Mall	1.54628e+006	8.3400e-003	0.0758	0.0637	4.5000e-004		5.7600e-003	5.7600e-003		5.7600e-003	5.7600e-003	0.0000	82.5155	82.5155	1.5800e-003	1.5100e-003	83.0058	
Unrefrigerated Warehouse-No Rail	795254	4.2900e-003	0.0390	0.0328	2.3000e-004		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	42.4378	42.4378	8.1000e-004	7.8000e-004	42.6900	
Total		0.6325	5.5335	3.2479	0.0345		0.4370	0.4370		0.4370	0.4370	0.0000	6,258.654	1	6,258.654	0.1200	0.1147	6,295.846

5.2 Energy by Land Use - NaturalGas**Mitigated**

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	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					
Automobile Care Center	1.00803e+006	5.4400e-003	0.0494	0.0415	3.0000e-004		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003	0.0000	53.7924	53.7924	1.0300e-003	9.9000e-004	54.1121	
City Park	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	
Condo/Townhouse	6.642e+007	0.3582	3.0605	1.3024	0.0195		0.2475	0.2475		0.2475	0.2475	0.0000	3,544.4242	3,544.4242	0.0679	0.0650	3,565.4870	
Convenience Market (24 Hour)	29436	1.6000e-004	1.4400e-003	1.2100e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5708	1.5708	3.0000e-005	3.0000e-005	1.5802	
Day-Care Center	59792	3.2000e-004	2.9300e-003	2.4600e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.1907	3.1907	6.0000e-005	6.0000e-005	3.2097	
Fast Food Restaurant w/o Drive Thru	627768	3.3900e-003	0.0308	0.0259	1.8000e-004		2.3400e-003	2.3400e-003		2.3400e-003	2.3400e-003	0.0000	33.5001	33.5001	6.4000e-004	6.1000e-004	33.6992	
Gasoline/Service Station	29375.7	1.6000e-004	1.4400e-003	1.2100e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5676	1.5676	3.0000e-005	3.0000e-005	1.5769	
General Light Industry	1.87272e+006	0.0101	0.0918	0.0771	5.5000e-004		6.9800e-003	6.9800e-003		6.9800e-003	6.9800e-003	0.0000	99.9355	99.9355	1.9200e-003	1.8300e-003	100.5293	
General Office Building	1.2538e+007	0.0676	0.6146	0.5163	3.6900e-003		0.0467	0.0467		0.0467	0.0467	0.0000	669.0749	669.0749	0.0128	0.0123	673.0509	
Government Office Building	2.94976e+006	0.0159	0.1446	0.1215	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	157.4104	157.4104	3.0200e-003	2.8900e-003	158.3458	
High Turnover (Sit Down Restaurant)	4.48157e+006	0.0242	0.2197	0.1845	1.3200e-003		0.0167	0.0167		0.0167	0.0167	0.0000	239.1534	239.1534	4.5800e-003	4.3800e-003	240.5746	
Home Improvement Superstore	47499	2.6000e-004	2.3300e-003	1.9600e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5347	2.5347	5.0000e-005	5.0000e-005	2.5498	
Industrial Park	1.488e+007	0.0802	0.7294	0.6127	4.3800e-003		0.0554	0.0554		0.0554	0.0554	0.0000	794.0551	794.0551	0.0152	0.0146	798.7737	
Medical Office Building	331116	1.7900e-003	0.0162	0.0136	1.0000e-004		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	17.6696	17.6696	3.4000e-004	3.2000e-004	17.7746	
Quality Restaurant	2.40644e+006	0.0130	0.1180	0.0991	7.1000e-004		8.9700e-003	8.9700e-003		8.9700e-003	8.9700e-003	0.0000	128.4170	128.4170	2.4600e-003	2.3500e-003	129.1801	
Refrigerated Warehouse-Rail	360542	1.9400e-003	0.0177	0.0149	1.1000e-004		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003	0.0000	19.2399	19.2399	3.7000e-004	3.5000e-004	19.3542	
Single Family Housing	6.89914e+006	0.0372	0.3179	0.1353	2.0300e-003		0.0257	0.0257		0.0257	0.0257	0.0000	368.1645	368.1645	7.0600e-003	6.7500e-003	370.3523	

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	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					
Strip Mall	1.54628e+006	8.3400e-003	0.0758	0.0637	4.5000e-004		5.7600e-003	5.7600e-003	5.7600e-003	5.7600e-003	0.0000	82.5155	82.5155	1.5800e-003	1.5100e-003	83.0058		
Unrefrigerated Warehouse-No Rail	795254	4.2900e-003	0.0390	0.0328	2.3000e-004		2.9600e-003	2.9600e-003	2.9600e-003	2.9600e-003	0.0000	42.4378	42.4378	8.1000e-004	7.8000e-004	42.6900		
Total		0.6325	5.5335	3.2479	0.0345		0.4370	0.4370	0.4370	0.4370	0.0000	6,258.654	6,258.654	0.1200	0.1147	6,295.846		

5.3 Energy by Land Use - ElectricityUnmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	724632	236.8161	9.5300e-003	1.9700e-003	237.6421
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	2.31977e+007	7,581.2241	0.3052	0.0631	7,607.6667
Convenience Market (24 Hour)	165792	54.1823	2.1800e-003	4.5000e-004	54.3713
Day-Care Center	52924	17.2960	7.0000e-004	1.4000e-004	17.3564
Fast Food Restaurant w/o Drive Thru	139320	45.5310	1.8300e-003	3.8000e-004	45.6898
Gasoline/Service Station	21117	6.9012	2.8000e-004	6.0000e-005	6.9253
General Light Industry	1.34622e+006	439.9565	0.0177	3.6600e-003	441.4910
General Office Building	8.34624e+006	2,727.6244	0.1098	0.0227	2,737.1381

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government Office Building	1.96358e +006	641.7165	0.0258	5.3400e-003	643.9547
High Turnover (Sit Down Restaurant)	994590	325.0407	0.0131	2.7100e-003	326.1744
Home Improvement Superstore	267528	87.4305	3.5200e-003	7.3000e-004	87.7354
Industrial Park	9.90528e +006	3,237.1323	0.1303	0.0270	3,248.4232
Medical Office Building	220416	72.0339	2.9000e-003	6.0000e-004	72.2851
Quality Restaurant	534060	174.5355	7.0300e-003	1.4500e-003	175.1443
Refrigerated Warehouse-Rail	1.8995e +006	620.7720	0.0250	5.1700e-003	622.9371
Single Family Housing	2.38828e +006	780.5123	0.0314	6.5000e-003	783.2347
Strip Mall	8.7091e +006	2,846.2115	0.1146	0.0237	2,856.1389
Unrefrigerated Warehouse-No Rail	1.73813e +006	568.0361	0.0229	4.7300e-003	570.0174
Total		20,462.9530	0.8237	0.1704	20,534.3258

5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	724632	236.8161	9.5300e-003	1.9700e-003	237.6421

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	2,31977e+007	7,581.2241	0.3052	0.0631	7,607.6667
Convenience Market (24 Hour)	165792	54.1823	2.1800e-003	4.5000e-004	54.3713
Day-Care Center	52924	17.2960	7.0000e-004	1.4000e-004	17.3564
Fast Food Restaurant w/o Drive Thru	139320	45.5310	1.8300e-003	3.8000e-004	45.6898
Gasoline/Service Station	21117	6.9012	2.8000e-004	6.0000e-005	6.9253
General Light Industry	1.34622e+006	439.9565	0.0177	3.6600e-003	441.4910
General Office Building	8.34624e+006	2,727.6244	0.1098	0.0227	2,737.1381
Government Office Building	1.96358e+006	641.7165	0.0258	5.3400e-003	643.9547
High Turnover (Sit Down Restaurant)	994590	325.0407	0.0131	2.7100e-003	326.1744
Home Improvement Superstore	267528	87.4305	3.5200e-003	7.3000e-004	87.7354
Industrial Park	9.90528e+006	3,237.1323	0.1303	0.0270	3,248.4232
Medical Office Building	220416	72.0339	2.9000e-003	6.0000e-004	72.2851
Quality Restaurant	534060	174.5355	7.0300e-003	1.4500e-003	175.1443
Refrigerated Warehouse-Rail	1.8995e+006	620.7720	0.0250	5.1700e-003	622.9371
Single Family Housing	2.38828e+006	780.5123	0.0314	6.5000e-003	783.2347
Strip Mall	8.7091e+006	2,846.21159	0.1146	0.0237	2,856.1389

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	1.73813e +006	568.0361	0.0229	4.7300e-003	570.0174
Total		20,462.95	0.8237	0.1704	20,534.32
		30			58

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	33.8257	0.4197	36.3807	1.9300e-003		0.2024	0.2024		0.2024	0.2024	0.0000	59.6460	59.6460	0.0569	0.0000	61.0679
Unmitigated	33.8257	0.4197	36.3807	1.9300e-003		0.2024	0.2024		0.2024	0.2024	0.0000	59.6460	59.6460	0.0569	0.0000	61.0679

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6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	32.7362					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0896	0.4197	36.3807	1.9300e-003		0.2024	0.2024		0.2024	0.2024	0.0000	59.6460	59.6460	0.0569	0.0000	61.0679
Total	33.8257	0.4197	36.3807	1.9300e-003		0.2024	0.2024		0.2024	0.2024	0.0000	59.6460	59.6460	0.0569	0.0000	61.0679

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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	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	32.7362					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0896	0.4197	36.3807	1.9300e-003		0.2024	0.2024		0.2024	0.2024	0.0000	59.6460	59.6460	0.0569	0.0000	61.0679
Total	33.8257	0.4197	36.3807	1.9300e-003		0.2024	0.2024		0.2024	0.2024	0.0000	59.6460	59.6460	0.0569	0.0000	61.0679

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	34,625.97 09	151.7714	3.8283	39,561.08 72
Unmitigated	34,625.97 09	151.7714	3.8283	39,561.08 72

7.2 Water by Land Use**Unmitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	12.9173 / 7.91708	87.8119	0.4243	0.0106	101.5884
City Park	0 / 1469.7	5,336.268 6	0.2148	0.0444	5,354.881 0
Condo/Townhouse	1772.12 / 1117.21	12,159.68 29	58.2115	1.4601	14,050.06 75
Convenience Market (24 Hour)	2.22218 / 1.36198	15.1063	0.0730	1.8300e-003	17.4763
Day-Care Center	0.433185 / 1.1139	6.0252	0.0144	3.8000e-004	6.4979
Fast Food Restaurant w/o Drive Thru	25.3147 / 1.61583	121.6217	0.8295	0.0204	148.4441

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	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Gasoline/Service Station	1.22193 / 0.748927	8.3067	0.0401	1.0100e-003	9.6099
General Light Industry	252.918 / 0	1,156.5012	8.2847	0.2036	1,424.2782
General Office Building	660.512 / 404.83	4,490.1519	21.6951	0.5439	5,194.5956
Government Office Building	31.2492 / 19.1527	212.4315	1.0264	0.0257	245.7591
High Turnover (Sit Down Restaurant)	38.6702 / 2.46831	185.7866	1.2671	0.0312	226.7599
Home Improvement Superstore	1.87403 / 1.1486	12.7397	0.0616	1.5400e-003	14.7384
Industrial Park	458.245 / 0	2,095.3852	15.0104	0.3688	2,580.5520
Medical Office Building	30.0149 / 5.71713	158.0053	0.9840	0.0243	189.8560
Quality Restaurant	11.5343 / 0.736231	55.4152	0.3779	9.3100e-003	67.6364
Refrigerated Warehouse-Rail	13.0887 / 0	59.8500	0.4287	0.0105	73.7077
Single Family Housing	832.538 / 524.861	5,712.5787	27.3476	0.6859	6,600.6751
Strip Mall	267.209 / 163.773	1,816.4849	8.7767	0.2200	2,101.4667
Unrefrigerated Warehouse-No Rail	204.656 / 0	935.8175	6.7038	0.1647	1,152.4972
Total		34,625.9709	151.7714	3.8283	39,561.0872

7.2 Water by Land Use**Mitigated**

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	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	12.9173 / 7.91708	87.8119	0.4243	0.0106	101.5884
City Park	0 / 1469.7	5,336.268	0.2148	0.0444	5,354.881
Condo/Townhouse	1772.12 / 1117.21	12,159.68	58.2115	1.4601	14,050.06
Convenience Market (24 Hour)	2.22218 / 1.36198	15.1063	0.0730	1.8300e-003	17.4763
Day-Care Center	0.433185 / 1.1139	6.0252	0.0144	3.8000e-004	6.4979
Fast Food Restaurant w/o Drive Thru	25.3147 / 1.61583	121.6217	0.8295	0.0204	148.4441
Gasoline/Service Station	1.22193 / 0.748927	8.3067	0.0401	1.0100e-003	9.6099
General Light Industry	252.918 / 0	1,156.501	8.2847	0.2036	1,424.278
General Office Building	660.512 / 404.83	4,490.151	21.6951	0.5439	5,194.595
Government Office Building	31.2492 / 19.1527	212.4315	1.0264	0.0257	245.7591
High Turnover (Sit Down Restaurant)	38.6702 / 2.46831	185.7866	1.2671	0.0312	226.7599
Home Improvement Superstore	1.87403 / 1.1486	12.7397	0.0616	1.5400e-003	14.7384
Industrial Park	458.245 / 0	2,095.385	15.0104	0.3688	2,580.552
Medical Office Building	30.0149 / 5.71713	158.0053	0.9840	0.0243	189.8560
Quality Restaurant	11.5343 / 0.736231	55.4152	0.3779	9.3100e-003	67.6364
Refrigerated Warehouse-Rail	13.0887 / 0	59.8500	0.4287	0.0105	73.7077
Single Family Housing	832.538 / 524.861	5,712.578	27.3476	0.6859	6,600.675

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	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Strip Mall	267.209 / 163.773	1,816.484 9	8.7767	0.2200	2,101.466 7
Unrefrigerated Warehouse-No Rail	204.656 / 0	935.8175 2	6.7038	0.1647	1,152.497 2
Total		34,625.97 09	151.7714	3.8283	39,561.08 72

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9,285.304 0	548.7457	0.0000	23,003.94 76
Unmitigated	9,285.304 0	548.7457	0.0000	23,003.94 76

8.2 Waste by Land Use

Unmitigated

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	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	524.49	106.4667	6.2920	0.0000	263.7668
City Park	106.08	21.5333	1.2726	0.0000	53.3478
Condo/Townhouse	12511.56	2,539.729	150.0937	0.0000	6,292.0725
Convenience Market (24 Hour)	90.16	18.3017	1.0816	0.0000	45.3416
Day-Care Center	13.13	2.6653	0.1575	0.0000	6.6031
Fast Food Restaurant w/o Drive Thru	960.68	195.0094	11.5247	0.0000	483.1274
Gasoline/Service Station	49.58	10.0643	0.5948	0.0000	24.9339
General Light Industry	1356.19	275.2943	16.2694	0.0000	682.0300
General Office Building	3456.16	701.5693	41.4616	0.0000	1,738.1081
Government Office Building	146.29	29.6956	1.7550	0.0000	73.5695
High Turnover (Sit Down Restaurant)	1516.06	307.7465	18.1873	0.0000	762.4289
Home Improvement Superstore	280.56	56.9511	3.3657	0.0000	141.0941
Industrial Park	2457.18	498.7853	29.4774	0.0000	1,235.7196
Medical Office Building	2583.36	524.3987	30.9911	0.0000	1,299.1757
Quality Restaurant	34.67	7.0377	0.4159	0.0000	17.4356
Refrigerated Warehouse-Rail	53.2	10.7991	0.6382	0.0000	26.7544
Single Family Housing	14983.59	3,041.504	179.7478	0.0000	7,535.1998

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	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Strip Mall	3787.77	768.8831	45.4397	0.0000	1,904.8753
Unrefrigerated Warehouse-No Rail	831.9	168.8682	9.9798	0.0000	418.3638
Total		9,285.3040	548.7458	0.0000	23,003.9476

8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	524.49	106.4667	6.2920	0.0000	263.7668
City Park	106.08	21.5333	1.2726	0.0000	53.3478
Condo/Townhouse	12511.56	2,539.729	150.0937	0.0000	6,292.0725
Convenience Market (24 Hour)	90.16	18.3017	1.0816	0.0000	45.3416
Day-Care Center	13.13	2.6653	0.1575	0.0000	6.6031
Fast Food Restaurant w/o Drive Thru	960.68	195.0094	11.5247	0.0000	483.1274
Gasoline/Service Station	49.58	10.0643	0.5948	0.0000	24.9339
General Light Industry	1356.19	275.2943	16.2694	0.0000	682.0300
General Office Building	3456.16	701.5693	41.4616	0.0000	1,738.1081

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	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	146.29	29.6956	1.7550	0.0000	73.5695
High Turnover (Sit Down Restaurant)	1516.06	307.7465	18.1873	0.0000	762.4289
Home Improvement Superstore	280.56	56.9511	3.3657	0.0000	141.0941
Industrial Park	2457.18	498.7853	29.4774	0.0000	1,235.7196
Medical Office Building	2583.36	524.3987	30.9911	0.0000	1,299.1757
Quality Restaurant	34.67	7.0377	0.4159	0.0000	17.4356
Refrigerated Warehouse-Rail	53.2	10.7991	0.6382	0.0000	26.7544
Single Family Housing	14983.59	3,041.5049	179.7478	0.0000	7,535.1998
Strip Mall	3787.77	768.8831	45.4397	0.0000	1,904.8753
Unrefrigerated Warehouse-No Rail	831.9	168.8682	9.9798	0.0000	418.3638
Total	9,285.3040	548.7458	0.0000	23,003.9476	

9.0 Operational Offroad

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

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

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Boilers

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

Equipment Type	Number
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11.0 Vegetation

Adopted Plan Conditions

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1.0 Project Characteristics

1.1 Land Usage

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Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Bank (with Drive-Through)	17.10	1000sqft	0.39	17,100.00	0
General Office Building	367.50	1000sqft	8.44	367,500.00	0
Government Office Building	146.00	1000sqft	3.35	146,000.00	0
Medical Office Building	16.50	1000sqft	0.38	16,500.00	0
Day-Care Center	22.70	1000sqft	0.52	22,700.00	0
General Light Industry	429.40	1000sqft	9.86	429,400.00	0
Industrial Park	789.10	1000sqft	18.12	789,100.00	0
Refrigerated Warehouse-Rail	55.30	1000sqft	1.27	55,300.00	0
Unrefrigerated Warehouse-No Rail	503.20	1000sqft	11.55	503,200.00	0
Parking Lot	1.60	Acre	1.60	69,696.00	0
City Park	2.70	Acre	2.70	117,612.00	0
Fast Food Restaurant w/o Drive Thru	9.40	1000sqft	0.22	9,400.00	0
High Turnover (Sit Down Restaurant)	34.80	1000sqft	0.80	34,800.00	0
Quality Restaurant	13.80	1000sqft	0.32	13,800.00	0
Condo/Townhouse	1,221.00	Dwelling Unit	76.31	1,221,000.00	3492
Mobile Home Park	90.00	Dwelling Unit	11.34	108,000.00	257
Retirement Community	8.00	Dwelling Unit	1.60	8,000.00	23
Single Family Housing	276.00	Dwelling Unit	89.61	496,800.00	789
Automobile Care Center	103.90	1000sqft	2.39	103,900.00	0
Convenience Market (24 Hour)	13.10	1000sqft	0.30	13,100.00	0
Convenience Market With Gas Pumps	22.00	Pump	0.07	3,105.85	0
Gasoline/Service Station	8.00	Pump	0.03	1,129.40	0
Home Improvement Superstore	202.00	1000sqft	4.64	202,000.00	0
Strip Mall	1,037.30	1000sqft	23.81	1,037,300.00	0
Hotel	101.00	Room	3.37	146,652.00	0

1.2 Other Project Characteristics

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Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - Several Unit amounts converted using the SANDAG "(NOT SO) BRIEF GUIDE OF VEHICULAR TRAFFIC GENERATION RATES FOR THE SAN DIEGO REGION" April 2002

Construction Phase - Not analyzing construction

Off-road Equipment - Not analyzing contruction

Trips and VMT - Not analyzing contruction

On-road Fugitive Dust - Not analyzing contruction

Demolition -

Grading - Not analyzing contruction

Architectural Coating - Not analyzing contruction

Woodstoves - Not analyzing operational use

Consumer Products - Not analyzing operational use

Area Coating - Not analyzing operational use

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,856,658.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	5,569,973.00	0.00
tblArchitecturalCoating	ConstArea_Parking	4,281.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	1,095,390.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	3,286,170.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00

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tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	0.00
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	40
tblConstructionPhase	NumDays	300.00	0.00
tblConstructionPhase	NumDays	180.00	0.00
tblConstructionPhase	NumDays	465.00	0.00
tblConstructionPhase	NumDays	4,650.00	0.00
tblConstructionPhase	NumDays	330.00	0.00
tblConstructionPhase	NumDays	330.00	0.00
tblConstructionPhase	PhaseEndDate	8/22/2019	6/28/2018
tblConstructionPhase	PhaseEndDate	4/30/2020	6/28/2018
tblConstructionPhase	PhaseEndDate	2/10/2022	6/28/2018
tblConstructionPhase	PhaseEndDate	12/8/2039	6/28/2018
tblConstructionPhase	PhaseEndDate	3/14/2041	6/28/2018
tblConstructionPhase	PhaseEndDate	6/19/2042	6/28/2018
tblConstructionPhase	PhaseStartDate	8/23/2019	6/29/2018
tblConstructionPhase	PhaseStartDate	5/1/2020	6/29/2018
tblConstructionPhase	PhaseStartDate	2/11/2022	6/29/2018
tblConstructionPhase	PhaseStartDate	12/9/2039	6/29/2018
tblConstructionPhase	PhaseStartDate	3/15/2041	6/29/2018
tblFireplaces	NumberGas	516.45	0.00
tblFireplaces	NumberGas	49.50	0.00
tblFireplaces	NumberGas	43.45	0.00
tblFireplaces	NumberGas	151.80	0.00

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tblFireplaces	NumberNoFireplace	93.90	0.00
tblFireplaces	NumberNoFireplace	9.00	0.00
tblFireplaces	NumberNoFireplace	7.90	0.00
tblFireplaces	NumberNoFireplace	27.60	0.00
tblFireplaces	NumberWood	328.65	0.00
tblFireplaces	NumberWood	31.50	0.00
tblFireplaces	NumberWood	27.65	0.00
tblFireplaces	NumberWood	96.60	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00

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tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblTripsAndVMT	VendorTripNumber	787.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	2,350.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	470.00	0.00
tblWoodstoves	NumberCatalytic	46.95	0.00
tblWoodstoves	NumberCatalytic	4.50	0.00
tblWoodstoves	NumberCatalytic	3.95	0.00
tblWoodstoves	NumberCatalytic	13.80	0.00
tblWoodstoves	NumberNoncatalytic	46.95	0.00
tblWoodstoves	NumberNoncatalytic	4.50	0.00
tblWoodstoves	NumberNoncatalytic	3.95	0.00
tblWoodstoves	NumberNoncatalytic	13.80	0.00

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

Mitigated Construction

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	29.6458	0.1365	11.8370	6.3000e-004		0.0658	0.0658		0.0658	0.0658	0.0000	19.4151	19.4151	0.0186	0.0000	19.8799
Energy	0.3960	3.5227	2.4590	0.0216		0.2736	0.2736		0.2736	0.2736	0.0000	21,256.95 71	21,256.95 71	0.7730	0.2162	21,340.71 82
Mobile	15.0155	74.0119	152.3231	0.5993	67.3761	0.3203	67.6963	18.0358	0.2975	18.3333	0.0000	56,007.24 98	56,007.24 98	2.9059	0.0000	56,079.89 79
Waste						0.0000	0.0000		0.0000	0.0000	1,579.726 4	0.0000	1,579.726 4	93.3592	0.0000	3,913.705 3
Water						0.0000	0.0000		0.0000	0.0000	227.0589	3,709.074 3	3,936.133 2	23.4704	0.5816	4,696.195 7
Total	45.0572	77.6711	166.6191	0.6215	67.3761	0.6597	68.0357	18.0358	0.6369	18.6726	1,806.785 4	80,992.69 61	82,799.48 15	120.5271	0.7978	86,050.39 70

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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	29.6458	0.1365	11.8370	6.3000e-004		0.0658	0.0658		0.0658	0.0658	0.0000	19.4151	19.4151	0.0186	0.0000	19.8799	
Energy	0.3960	3.5227	2.4590	0.0216		0.2736	0.2736		0.2736	0.2736	0.0000	21,256.95 71	21,256.95 71	0.7730	0.2162	21,340.71 82	
Mobile	14.0919	70.1601	134.0806	0.5046	55.3441	0.2750	55.6191	14.8150	0.2554	15.0703	0.0000	47,195.08 83	47,195.08 83	2.5262	0.0000	47,258.24 39	
Waste						0.0000	0.0000		0.0000	0.0000	1,579.726 4	0.0000	1,579.726 4	93.3592	0.0000	3,913.705 3	
Water						0.0000	0.0000		0.0000	0.0000	227.0589	3,709.074 3	3,936.133 2	23.4704	0.5816	4,696.195 7	
Total	44.1336	73.8193	148.3766	0.5268	55.3441	0.6144	55.9585	14.8150	0.5947	15.4097	1,806.785 4	72,180.53 47	73,987.32 01	120.1474	0.7978	77,228.74 30	

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	2.05	4.96	10.95	15.24	17.86	6.86	17.75	17.86	6.61	17.47	0.00	10.88	10.64	0.32	0.00	10.25

3.0 Construction Detail**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/29/2018	6/28/2018	5	0	
2	Site Preparation	Site Preparation	6/29/2018	6/28/2018	5	0	
3	Grading	Grading	6/29/2018	6/28/2018	5	0	
4	Building Construction	Building Construction	6/29/2018	6/28/2018	5	0	
5	Paving	Paving	6/29/2018	6/28/2018	5	0	
6	Architectural Coating	Architectural Coating	6/29/2018	6/28/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.6

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

OffRoad Equipment

Morena Boulevard - San Diego County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Morena Boulevard - San Diego County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2018

Unmitigated Construction On-Site

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3.2 Demolition - 2018

Unmitigated Construction Off-Site

Mitigated Construction On-Site

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3.2 Demolition - 2018

Mitigated Construction Off-Site

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

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3.3 Site Preparation - 2018

Unmitigated Construction Off-Site

Mitigated Construction On-Site

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3.3 Site Preparation - 2018

Mitigated Construction Off-Site

3.4 Grading - 2018

Unmitigated Construction On-Site

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3.4 Grading - 2018

Unmitigated Construction Off-Site

Mitigated Construction On-Site

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3.4 Grading - 2018

Mitigated Construction Off-Site

3.5 Building Construction - 2018

Unmitigated Construction On-Site

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3.5 Building Construction - 2018

Unmitigated Construction Off-Site

Mitigated Construction On-Site

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3.5 Building Construction - 2018

Mitigated Construction Off-Site

3.6 Paving - 2018

Unmitigated Construction On-Site

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3.6 Paving - 2018

Unmitigated Construction Off-Site

Mitigated Construction On-Site

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3.6 Paving - 2018

Mitigated Construction Off-Site

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

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3.7 Architectural Coating - 2018

Unmitigated Construction Off-Site

Mitigated Construction On-Site

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3.7 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000								

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Increase Density

Increase Diversity

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Provide BRT System

Encourage Telecommuting and Alternative Work Schedules

Provide Riade Sharing Program

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Mitigated	14.0919	70.1601	134.0806	0.5046	55.3441	0.2750	55.6191	14.8150	0.2554	15.0703	0.0000	47,195.08 83	47,195.08 83	2.5262	0.0000	47,258.24 39	
Unmitigated	15.0155	74.0119	152.3231	0.5993	67.3761	0.3203	67.6963	18.0358	0.2975	18.3333	0.0000	56,007.24 98	56,007.24 98	2.9059	0.0000	56,079.89 79	

4.2 Trip Summary Information

Morena Boulevard - San Diego County, Annual

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	2,464.51	2,464.51	1234.33	2,280,039	1,863,301
Bank (with Drive-Through)	2,533.37	1,476.07	545.49	1,940,914	1,588,744
City Park	5.10	61.43	45.20	40,299	32,933
Condo/Townhouse	7,094.01	6,923.07	5909.64	19,702,719	16,726,360
Convenience Market (24 Hour)	9,667.67	11,306.61	9935.70	7,570,146	6,198,942
Convenience Market With Gas Pumps	11,937.20	4,498.34	3671.36	5,199,726	4,257,916
Day-Care Center	1,681.16	140.97	132.34	1,460,112	1,155,283
Fast Food Restaurant w/o Drive Thru	6,730.40	6,542.40	4700.00	10,342,183	8,468,507
Gasoline/Service Station	1,348.48	1,348.48	1348.48	776,951	636,174
General Light Industry	2,992.92	566.81	291.99	6,599,509	5,352,134
General Office Building	4,053.53	904.05	385.88	7,359,602	6,014,315
Government Office Building	10,063.78	0.00	0.00	12,327,271	9,917,651
High Turnover (Sit Down Restaurant)	4,424.82	5,511.28	4588.03	5,341,097	4,371,423
Home Improvement Superstore	6,209.48	11,457.44	11271.60	8,219,877	6,721,318
Industrial Park	5,389.55	1,964.86	576.04	11,044,889	8,957,289
Medical Office Building	596.15	147.84	25.58	881,920	720,855
Mobile Home Park	449.10	450.00	392.40	1,259,556	1,069,283
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	1,241.31	1,302.17	995.81	1,441,112	1,179,212
Refrigerated Warehouse-Rail	92.90	92.90	92.90	271,234	226,388
Retirement Community	19.20	16.24	15.60	52,146	44,269
Single Family Housing	2,627.52	2,735.16	2379.12	7,444,951	6,320,291
Strip Mall	45,973.14	43,608.09	21192.04	64,827,869	53,030,398
Unrefrigerated Warehouse-No Rail	845.38	845.38	845.38	2,468,085	2,060,011
Total	128,440.66	104,364.09	70,574.90	178,852,209	146,912,998

4.3 Trip Type Information

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
Bank (with Drive-Through)	9.50	7.30	7.30	6.60	74.40	19.00	27	26	47
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Convenience Market (24 Hour)	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61
Convenience Market With Gas	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Day-Care Center	9.50	7.30	7.30	12.70	82.30	5.00	28	58	14
Fast Food Restaurant w/o Drive	9.50	7.30	7.30	1.50	79.50	19.00	51	37	12
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Home Improvement Superstore	9.50	7.30	7.30	23.40	57.60	19.00	32	20	48
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Mobile Home Park	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	38	18	44
Refrigerated Warehouse-Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3
Retirement Community	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Bank (with Drive-Through)	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Condo/Townhouse	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Convenience Market (24 Hour)	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Convenience Market With Gas Pumps	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Day-Care Center	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Fast Food Restaurant w/o Drive Thru	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Gasoline/Service Station	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Light Industry	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Government Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
High Turnover (Sit Down Restaurant)	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Home Improvement Superstore	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Industrial Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Medical Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Mobile Home Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Parking Lot	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Quality Restaurant	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Refrigerated Warehouse-Rail	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Retirement Community	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Single Family Housing	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Strip Mall	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Unrefrigerated Warehouse-No Rail	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

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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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	17,338.24	17,338.24	0.6979	0.1444	17,398.71	93
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	17,338.24	17,338.24	0.6979	0.1444	17,398.71	93
NaturalGas Mitigated	0.3960	3.5227	2.4590	0.0216		0.2736	0.2736		0.2736	0.2736	0.0000	3,918.7119	3,918.7111	0.0751	0.0718	3,941.998	9
NaturalGas Unmitigated	0.3960	3.5227	2.4590	0.0216		0.2736	0.2736		0.2736	0.2736	0.0000	3,918.7111	3,918.7119	0.0751	0.0718	3,941.998	9

5.2 Energy by Land Use - NaturalGasUnmitigated

	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					
Automobile Care Center	1.20108e+006	6.4800e-003	0.0589	0.0495	3.5000e-004		4.4700e-003	4.4700e-003		4.4700e-003	4.4700e-003	0.0000	64.0944	64.0944	1.2300e-003	1.1800e-003	64.4753	
Bank (with Drive-Through)	197676	1.0700e-003	9.6900e-003	8.1400e-003	6.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	10.5487	10.5487	2.0000e-004	1.9000e-004	10.6114	

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	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					
City Park	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	0.0000	0.0000	
Condo/Townhouse	1.75615e+007	0.0947	0.8092	0.3443	5.1700e-003	0.0654	0.0654	0.0654	0.0654	0.0654	0.0654	937.1464	937.1464	0.0180	0.0172	942.7154		
Convenience Market (24 Hour)	29213	1.6000e-004	1.4300e-003	1.2000e-003	1.0000e-005	1.1000e-004	1.1000e-004	1.1000e-004	1.1000e-004	1.1000e-004	1.1000e-004	1.5589	1.5589	3.0000e-005	3.0000e-005	1.5682		
Convenience Market With Gas Pumps	6926.05	4.0000e-005	3.4000e-004	2.9000e-004	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.3696	0.3696	1.0000e-005	1.0000e-005	0.3718		
Day-Care Center	134384	7.2000e-004	6.5900e-003	5.5300e-003	4.0000e-005	5.0000e-004	5.0000e-004	5.0000e-004	5.0000e-004	5.0000e-004	5.0000e-004	7.1712	7.1712	1.4000e-004	1.3000e-004	7.2139		
Fast Food Restaurant w/o Drive Thru	1.63917e+006	8.8400e-003	0.0804	0.0675	4.8000e-004	6.1100e-003	6.1100e-003	6.1100e-003	6.1100e-003	6.1100e-003	6.1100e-003	87.4725	87.4725	1.6800e-003	1.6000e-003	87.9923		
Gasoline/Service Station	13055.9	7.0000e-005	6.4000e-004	5.4000e-004	0.0000	5.0000e-005	5.0000e-005	5.0000e-005	5.0000e-005	5.0000e-005	5.0000e-005	0.6967	0.6967	1.0000e-005	1.0000e-005	0.7009		
General Light Industry	4.96386e+006	0.0268	0.2433	0.2044	1.4600e-003	0.0185	0.0185	0.0185	0.0185	0.0185	0.0185	264.8907	264.8907	5.0800e-003	4.8600e-003	266.4648		
General Office Building	7.41983e+006	0.0400	0.3637	0.3055	2.1800e-003	0.0276	0.0276	0.0276	0.0276	0.0276	0.0276	395.9501	395.9501	7.5900e-003	7.2600e-003	398.3031		
Government Office Building	2.94774e+006	0.0159	0.1445	0.1214	8.7000e-004	0.0110	0.0110	0.0110	0.0110	0.0110	0.0110	0.0000	157.3026	157.3026	3.0100e-003	2.8800e-003	158.2374	
High Turnover (Sit Down Restaurant)	6.06842e+006	0.0327	0.2975	0.2499	1.7800e-003	0.0226	0.0226	0.0226	0.0226	0.0226	0.0226	323.8342	323.8342	6.2100e-003	5.9400e-003	325.7586		
Home Improvement Superstore	450460	2.4300e-003	0.0221	0.0186	1.3000e-004	1.6800e-003	1.6800e-003	1.6800e-003	1.6800e-003	1.6800e-003	1.6800e-003	0.0000	24.0383	24.0383	4.6000e-004	4.4000e-004	24.1811	
Industrial Park	1.59319e+007	0.0859	0.7810	0.6560	4.6900e-003	0.0594	0.0594	0.0594	0.0594	0.0594	0.0594	850.1884	850.1884	0.0163	0.0156	855.2407		
Medical Office Building	333135	1.8000e-003	0.0163	0.0137	1.0000e-004	1.2400e-003	1.2400e-003	1.2400e-003	1.2400e-003	1.2400e-003	1.2400e-003	0.0000	17.7774	17.7774	3.4000e-004	3.3000e-004	17.8830	
Mobile Home Park	2.07872e+006	0.0112	0.0958	0.0408	6.1000e-004	7.7400e-003	7.7400e-003	7.7400e-003	7.7400e-003	7.7400e-003	7.7400e-003	0.0000	110.9283	110.9283	2.1300e-003	2.0300e-003	111.5875	
Parking Lot	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	0.0000	0.0000	
Quality Restaurant	2.40644e+006	0.0130	0.1180	0.0991	7.1000e-004	8.9700e-003	8.9700e-003	8.9700e-003	8.9700e-003	8.9700e-003	8.9700e-003	0.0000	128.4170	128.4170	2.4600e-003	2.3500e-003	129.1801	

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	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					
Refrigerated Warehouse-Rail	352261	1.9000e-003	0.0173	0.0145	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	18.7980	18.7980	3.6000e-004	3.4000e-004	18.9097	
Retirement Community	89803.9	4.8000e-004	4.1400e-003	1.7600e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	4.7923	4.7923	9.0000e-005	9.0000e-005	4.8208	
Single Family Housing	6.45479e+006	0.0348	0.2974	0.1266	1.9000e-003		0.0241	0.0241		0.0241	0.0241	0.0000	344.4522	344.4522	6.6000e-003	6.3100e-003	346.4991	
Strip Mall	2.31318e+006	0.0125	0.1134	0.0953	6.8000e-004		8.6200e-003	8.6200e-003		8.6200e-003	8.6200e-003	0.0000	123.4400	123.4400	2.3700e-003	2.2600e-003	124.1736	
Unrefrigerated Warehouse-No Rail	840344	4.5300e-003	0.0412	0.0346	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	44.8440	44.8440	8.6000e-004	8.2000e-004	45.1104	
Total		0.3960	3.5227	2.4590	0.0216		0.2736	0.2736		0.2736	0.2736	0.0000	3,918.7119	3,918.7119	0.0751	0.0718	3,941.9989	

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					
Automobile Care Center	1.20108e+006	6.4800e-003	0.0589	0.0495	3.5000e-004		4.4700e-003	4.4700e-003		4.4700e-003	4.4700e-003	0.0000	64.0944	64.0944	1.2300e-003	1.1800e-003	64.4753	
Bank (with Drive-Through)	197676	1.0700e-003	9.6900e-003	8.1400e-003	6.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	10.5487	10.5487	2.0000e-004	1.9000e-004	10.6114	
City Park	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	
Condo/Townhouse	1.75615e+007	0.0947	0.8092	0.3443	5.1700e-003		0.0654	0.0654		0.0654	0.0654	0.0000	937.1464	937.1464	0.0180	0.0172	942.7154	
Convenience Market (24 Hour)	29213	1.6000e-004	1.4300e-003	1.2000e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5589	1.5589	3.0000e-005	3.0000e-005	1.5682	
Convenience Market With Gas Pumps	6926.05	4.0000e-005	3.4000e-004	2.9000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.3696	0.3696	1.0000e-005	1.0000e-005	0.3718	

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	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					
Day-Care Center	134384	7.2000e-004	6.5900e-003	5.5300e-003	4.0000e-005		5.0000e-004	5.0000e-004	5.0000e-004	5.0000e-004	0.0000	7.1712	7.1712	1.4000e-004	1.3000e-004	7.2139		
Fast Food Restaurant w/o Drive Thru	1.63917e+006	8.8400e-003	0.0804	0.0675	4.8000e-004		6.1100e-003	6.1100e-003	6.1100e-003	6.1100e-003	0.0000	87.4725	87.4725	1.6800e-003	1.6000e-003	87.9923		
Gasoline/Service Station	13055.9	7.0000e-005	6.4000e-004	5.4000e-004	0.0000		5.0000e-005	5.0000e-005	5.0000e-005	5.0000e-005	0.0000	0.6967	0.6967	1.0000e-005	1.0000e-005	0.7009		
General Light Industry	4.96386e+006	0.0268	0.2433	0.2044	1.4600e-003		0.0185	0.0185	0.0185	0.0185	0.0000	264.8907	264.8907	5.0800e-003	4.8600e-003	266.4648		
General Office Building	7.41983e+006	0.0400	0.3637	0.3055	2.1800e-003		0.0276	0.0276	0.0276	0.0276	0.0000	395.9501	395.9501	7.5900e-003	7.2600e-003	398.3031		
Government Office Building	2.94774e+006	0.0159	0.1445	0.1214	8.7000e-004		0.0110	0.0110	0.0110	0.0110	0.0000	157.3026	157.3026	3.0100e-003	2.8800e-003	158.2374		
High Turnover (Sit Down Restaurant)	6.06842e+006	0.0327	0.2975	0.2499	1.7800e-003		0.0226	0.0226	0.0226	0.0226	0.0000	323.8342	323.8342	6.2100e-003	5.9400e-003	325.7586		
Home Improvement Superstore	450460	2.4300e-003	0.0221	0.0186	1.3000e-004		1.6800e-003	1.6800e-003	1.6800e-003	1.6800e-003	0.0000	24.0383	24.0383	4.6000e-004	4.4000e-004	24.1811		
Industrial Park	1.59319e+007	0.0859	0.7810	0.6560	4.6900e-003		0.0594	0.0594	0.0594	0.0594	0.0000	850.1884	850.1884	0.0163	0.0156	855.2407		
Medical Office Building	333135	1.8000e-003	0.0163	0.0137	1.0000e-004		1.2400e-003	1.2400e-003	1.2400e-003	1.2400e-003	0.0000	17.7774	17.7774	3.4000e-004	3.3000e-004	17.8830		
Mobile Home Park	2.07872e+006	0.0112	0.0958	0.0408	6.1000e-004		7.7400e-003	7.7400e-003	7.7400e-003	7.7400e-003	0.0000	110.9283	110.9283	2.1300e-003	2.0300e-003	111.5875		
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
Quality Restaurant	2.40644e+006	0.0130	0.1180	0.0991	7.1000e-004		8.9700e-003	8.9700e-003	8.9700e-003	8.9700e-003	0.0000	128.4170	128.4170	2.4600e-003	2.3500e-003	129.1801		
Refrigerated Warehouse-Rail	352261	1.9000e-003	0.0173	0.0145	1.0000e-004		1.3100e-003	1.3100e-003	1.3100e-003	1.3100e-003	0.0000	18.7980	18.7980	3.6000e-004	3.4000e-004	18.9097		
Retirement Community	89803.9	4.8000e-004	4.1400e-003	1.7600e-003	3.0000e-005		3.3000e-004	3.3000e-004	3.3000e-004	3.3000e-004	0.0000	4.7923	4.7923	9.0000e-005	9.0000e-005	4.8208		
Single Family Housing	6.45479e+006	0.0348	0.2974	0.1266	1.9000e-003		0.0241	0.0241	0.0241	0.0241	0.0000	344.4522	344.4522	6.6000e-003	6.3100e-003	346.4991		
Strip Mall	2.31318e+006	0.0125	0.1134	0.0953	6.8000e-004		8.6200e-003	8.6200e-003	8.6200e-003	8.6200e-003	0.0000	123.4400	123.4400	2.3700e-003	2.2600e-003	124.1736		

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	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					
Unrefrigerated Warehouse-No Rail	840344	4.5300e-003	0.0412	0.0346	2.5000e-004			3.1300e-003	3.1300e-003		3.1300e-003	0.0000	44.8440	44.8440	8.6000e-004	8.2000e-004	45.1104	
Total		0.3960	3.5227	2.4590	0.0216			0.2736	0.2736		0.2736	0.0000	3,918.7119	3,918.7119	0.0751	0.0718	3,941.9989	

5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	863409	282.1696	0.0114	2.3500e-003	283.1538
Bank (with Drive-Through)	142101	46.4399	1.8700e-003	3.9000e-004	46.6018
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	6.13349e+006	2,004.4770	0.0807	0.0167	2,011.4684
Convenience Market (24 Hour)	164536	53.7718	2.1600e-003	4.5000e-004	53.9594
Convenience Market With Gas Pumps	39009.5	12.7486	5.1000e-004	1.1000e-004	12.7931
Day-Care Center	118948	38.8733	1.5600e-003	3.2000e-004	39.0088
Fast Food Restaurant w/o Drive Thru	363780	118.8865	4.7900e-003	9.9000e-004	119.3012
Gasoline/Service Station	9385.31	3.0672	1.2000e-004	3.0000e-005	3.0779

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	3.56831e +006	1,166.1563	0.0469	9.7100e-003	1,170.2237
General Office Building	4.9392e +006	1,614.1739	0.0650	0.0134	1,619.8039
Government Office Building	1.96224e +006	641.2772	0.0258	5.3400e-003	643.5140
High Turnover (Sit Down Restaurant)	1.34676e +006	440.1330	0.0177	3.6700e-003	441.6681
Home Improvement Superstore	2.53712e +006	829.1531	0.0334	6.9000e-003	832.0451
Industrial Park	1.06055e +007	3,465.9717	0.1395	0.0289	3,478.0607
Medical Office Building	221760	72.4731	2.9200e-003	6.0000e-004	72.7259
Mobile Home Park	488200	159.5479	6.4200e-003	1.3300e-003	160.1044
Parking Lot	24393.6	7.9720	3.2000e-004	7.0000e-005	7.9999
Quality Restaurant	534060	174.5355	7.0300e-003	1.4500e-003	175.1443
Refrigerated Warehouse-Rail	1.85587e +006	606.5139	0.0244	5.0500e-003	608.6294
Retirement Community	35477.8	11.5944	4.7000e-004	1.0000e-004	11.6349
Single Family Housing	2.23446e +006	730.2421	0.0294	6.0800e-003	732.7891
Strip Mall	1.30285e +007	4,257.8241	0.1714	0.0355	4,272.6750
Unrefrigerated Warehouse-No Rail	1.83668e +006	600.2431	0.0242	5.0000e-003	602.3367
Total		17,338.2451	0.6979	0.1444	17,398.7193

5.3 Energy by Land Use - Electricity

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Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	863409	282.1696	0.0114	2.3500e-003	283.1538
Bank (with Drive-Through)	142101	46.4399	1.8700e-003	3.9000e-004	46.6018
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	6.13349e+006	2,004.4770	0.0807	0.0167	2,011.4684
Convenience Market (24 Hour)	164536	53.7718	2.1600e-003	4.5000e-004	53.9594
Convenience Market With Gas Pumps	39009.5	12.7486	5.1000e-004	1.1000e-004	12.7931
Day-Care Center	118948	38.8733	1.5600e-003	3.2000e-004	39.0088
Fast Food Restaurant w/o Drive Thru	363780	118.8865	4.7900e-003	9.9000e-004	119.3012
Gasoline/Service Station	9385.31	3.0672	1.2000e-004	3.0000e-005	3.0779
General Light Industry	3.56831e+006	1,166.1563	0.0469	9.7100e-003	1,170.2237
General Office Building	4.9392e+006	1,614.1739	0.0650	0.0134	1,619.8039
Government Office Building	1.96224e+006	641.2772	0.0258	5.3400e-003	643.5140
High Turnover (Sit Down Restaurant)	1.34676e+006	440.1330	0.0177	3.6700e-003	441.6681
Home Improvement Superstore	2.53712e+006	829.1531	0.0334	6.9000e-003	832.0451
Industrial Park	1.06055e+007	3,465.9717	0.1395	0.0289	3,478.0607

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Medical Office Building	221760	72.4731	2.9200e-003	6.0000e-004	72.7259
Mobile Home Park	488200	159.5479	6.4200e-003	1.3300e-003	160.1044
Parking Lot	24393.6	7.9720	3.2000e-004	7.0000e-005	7.9999
Quality Restaurant	534060	174.5355	7.0300e-003	1.4500e-003	175.1443
Refrigerated Warehouse-Rail	1.85587e+006	606.5139	0.0244	5.0500e-003	608.6294
Retirement Community	35477.8	11.5944	4.7000e-004	1.0000e-004	11.6349
Single Family Housing	2.23446e+006	730.2421	0.0294	6.0800e-003	732.7891
Strip Mall	1.30285e+007	4,257.8241	0.1714	0.0355	4,272.6750
Unrefrigerated Warehouse-No Rail	1.83668e+006	600.2431	0.0242	5.0000e-003	602.3367
Total		17,338.2451	0.6979	0.1444	17,398.7193

6.0 Area Detail**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Mitigated	29.6458	0.1365	11.8370	6.3000e-004		0.0658	0.0658		0.0658	0.0658	0.0000	19.4151	19.4151	0.0186	0.0000	19.8799	
Unmitigated	29.6458	0.1365	11.8370	6.3000e-004		0.0658	0.0658		0.0658	0.0658	0.0000	19.4151	19.4151	0.0186	0.0000	19.8799	

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	6.8439					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	22.4458					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3561	0.1365	11.8370	6.3000e-004		0.0658	0.0658		0.0658	0.0658	0.0000	19.4151	19.4151	0.0186	0.0000	19.8799
Total	29.6457	0.1365	11.8370	6.3000e-004		0.0658	0.0658		0.0658	0.0658	0.0000	19.4151	19.4151	0.0186	0.0000	19.8799

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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	6.8439						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	22.4458						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hearth	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Landscaping	0.3561	0.1365	11.8370	6.3000e-004			0.0658	0.0658		0.0658	0.0658	0.0000	19.4151	19.4151	0.0186	0.0000	19.8799
Total	29.6457	0.1365	11.8370	6.3000e-004			0.0658	0.0658		0.0658	0.0658	0.0000	19.4151	19.4151	0.0186	0.0000	19.8799

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3,936.133 2	23.4704	0.5816	4,696.195 7
Unmitigated	3,936.133 2	23.4704	0.5816	4,696.195 7

7.2 Water by Land Use**Unmitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	8.47012 / 5.19137	57.5798	0.2782	6.9700e-003	66.6133
Bank (with Drive-Through)	0.678741 / 0.416002	4.6141	0.0223	5.6000e-004	5.3380
City Park	0 / 3.18126	11.5507	4.6000e-004	1.0000e-004	11.5909
Condo/Townhouse	61.1796 / 38.5698	419.7927	2.0097	0.0504	485.0551
Convenience Market (24 Hour)	0.971831 / 0.595639	6.6065	0.0319	8.0000e-004	7.6430
Convenience Market With Gas Pumps	0.230058 / 0.141003	1.5639	7.5600e-003	1.9000e-004	1.8093

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	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Day-Care Center	0.971449 / 2.49801	13.5120	0.0322	8.6000e-004	14.5721
Fast Food Restaurant w/o Drive Thru	2.84411 / 0.181539	13.6642	0.0932	2.2900e-003	16.6777
Gasoline/Service Station	0.106255 / 0.0651241	0.7223	3.4900e-003	9.0000e-005	0.8356
General Light Industry	99.2987 / 0	454.0565	3.2527	0.0799	559.1891
General Office Building	65.3172 / 40.0331	444.0252	2.1454	0.0538	513.6867
Government Office Building	29.0043 / 17.7768	197.1710	0.9527	0.0239	228.1044
High Turnover (Sit Down Restaurant)	10.5751 / 0.675007	50.8069	0.3465	8.5300e-003	62.0119
Home Improvement Superstore	14.9656 / 9.17247	101.7361	0.4916	0.0123	117.6971
Industrial Park	182.468 / 0	834.3579	5.9770	0.1469	1,027.5457
Medical Office Building	2.06541 / 0.393411	10.8728	0.0677	1.6700e-003	13.0645
Mobile Home Park	5.86386 / 3.69678	40.2357	0.1926	4.8300e-003	46.4909
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	4.18573 / 0.267174	20.1099	0.1372	3.3800e-003	24.5449
Refrigerated Warehouse-Rail	13.0957 / 0	59.8817	0.4290	0.0105	73.7468
Retirement Community	5.14717 / 3.24495	35.3180	0.1691	4.2400e-003	40.8087
Single Family Housing	17.9825 / 11.3368	123.3896	0.5907	0.0148	142.5721
Strip Mall	73.9147 / 45.3026	502.4715	2.4278	0.0609	581.3025

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	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	116.365 / 0	532.0942	3.8117	0.0937	655.2956
Total		3,936.133 2	23.4704	0.5816	4,696.195 7

7.2 Water by Land Use**Mitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	8.47012 / 5.19137	57.5798	0.2782	6.9700e- 003	66.6133
Bank (with Drive- Through)	0.678741 / 0.416002	4.6141	0.0223	5.6000e- 004	5.3380
City Park	0 / 3.18126	11.5507	4.6000e- 004	1.0000e- 004	11.5909
Condo/Townhous e	61.1796 / 38.5698	419.7927	2.0097	0.0504	485.0551
Convenience Market (24 Hour)	0.971831 / 0.595639	6.6065	0.0319	8.0000e- 004	7.6430
Convenience Market With Gas Pumps	0.230058 / 0.141003	1.5639	7.5600e- 003	1.9000e- 004	1.8093
Day-Care Center	0.971449 / 2.49801	13.5120	0.0322	8.6000e- 004	14.5721
Fast Food Restaurant w/o Drive Thru	2.84411 / 0.181539	13.6642	0.0932	2.2900e- 003	16.6777
Gasoline/Service Station	0.106255 / 0.0651241	0.7223	3.4900e- 003	9.0000e- 005	0.8356

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	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	99.2987 / 0	454.0565	3.2527	0.0799	559.1891
General Office Building	65.3172 / 40.0331	444.0252	2.1454	0.0538	513.6867
Government Office Building	29.0043 / 17.7768	197.1710	0.9527	0.0239	228.1044
High Turnover (Sit Down Restaurant)	10.5751 / 0.675007	50.8069	0.3465	8.5300e-003	62.0119
Home Improvement Superstore	14.9656 / 9.17247	101.7361	0.4916	0.0123	117.6971
Industrial Park	182.468 / 0	834.3579	5.9770	0.1469	1,027.5457
Medical Office Building	2.06541 / 0.393411	10.8728	0.0677	1.6700e-003	13.0645
Mobile Home Park	5.86386 / 3.69678	40.2357	0.1926	4.8300e-003	46.4909
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	4.18573 / 0.267174	20.1099	0.1372	3.3800e-003	24.5449
Refrigerated Warehouse-Rail	13.0957 / 0	59.8817	0.4290	0.0105	73.7468
Retirement Community	5.14717 / 3.24495	35.3180	0.1691	4.2400e-003	40.8087
Single Family Housing	17.9825 / 11.3368	123.3896	0.5907	0.0148	142.5721
Strip Mall	73.9147 / 45.3026	502.4715	2.4278	0.0609	581.3025
Unrefrigerated Warehouse-No Rail	116.365 / 0	532.0942	3.8117	0.0937	655.2956
Total		3,936.1332	23.4704	0.5816	4,696.1957

8.0 Waste Detail

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8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
MT/yr				
Mitigated	1,579.726 4	93.3592	0.0000	3,913.705 3
Unmitigated	1,579.726 4	93.3592	0.0000	3,913.705 3

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	343.91	69.8106	4.1257	0.0000	172.9529
Bank (with Drive-Through)	15.98	3.2438	0.1917	0.0000	8.0364
City Park	0.23	0.0467	2.7600e-003	0.0000	0.1157
Condo/Townhouse	431.94	87.6799	5.1817	0.0000	217.2233
Convenience Market (24 Hour)	39.43	8.0039	0.4730	0.0000	19.8294

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	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Day-Care Center	29.45	5.9781	0.3533	0.0000	14.8105
Fast Food Restaurant w/o Drive Thru	107.93	21.9088	1.2948	0.0000	54.2782
Gasoline/Service Station	4.31	0.8749	0.0517	0.0000	2.1675
General Light Industry	532.46	108.0846	6.3876	0.0000	267.7749
General Office Building	341.78	69.3783	4.1001	0.0000	171.8817
Government Office Building	135.78	27.5621	1.6289	0.0000	68.2840
High Turnover (Sit Down Restaurant)	414.6	84.1601	4.9737	0.0000	208.5030
Home Improvement Superstore	2240.45	454.7911	26.8774	0.0000	1,126.7257
Industrial Park	978.42	198.6104	11.7375	0.0000	492.0489
Medical Office Building	177.77	36.0857	2.1326	0.0000	89.4008
Mobile Home Park	41.4	8.4038	0.4967	0.0000	20.8201
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	12.58	2.5536	0.1509	0.0000	6.3265
Refrigerated Warehouse-Rail	53.23	10.8052	0.6386	0.0000	26.7695
Retirement Community	36.34	7.3767	0.4360	0.0000	18.2754
Single Family Housing	323.49	65.6656	3.8807	0.0000	162.6836
Strip Mall	1047.76	212.6858	12.5694	0.0000	526.9201

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	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	473.01	96.0168	5.6744	0.0000	237.8775
Total		1,579.7264	93.3591	0.0000	3,913.7054

8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	343.91	69.8106	4.1257	0.0000	172.9529
Bank (with Drive-Through)	15.98	3.2438	0.1917	0.0000	8.0364
City Park	0.23	0.0467	2.7600e-003	0.0000	0.1157
Condo/Townhouse	431.94	87.6799	5.1817	0.0000	217.2233
Convenience Market (24 Hour)	39.43	8.0039	0.4730	0.0000	19.8294
Day-Care Center	29.45	5.9781	0.3533	0.0000	14.8105
Fast Food Restaurant w/o Drive Thru	107.93	21.9088	1.2948	0.0000	54.2782
Gasoline/Service Station	4.31	0.8749	0.0517	0.0000	2.1675
General Light Industry	532.46	108.0846	6.3876	0.0000	267.7749
General Office Building	341.78	69.3783	4.1001	0.0000	171.8817

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	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	135.78	27.5621	1.6289	0.0000	68.2840
High Turnover (Sit Down Restaurant)	414.6	84.1601	4.9737	0.0000	208.5030
Home Improvement Superstore	2240.45	454.7911	26.8774	0.0000	1,126.7257
Industrial Park	978.42	198.6104	11.7375	0.0000	492.0489
Medical Office Building	177.77	36.0857	2.1326	0.0000	89.4008
Mobile Home Park	41.4	8.4038	0.4967	0.0000	20.8201
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	12.58	2.5536	0.1509	0.0000	6.3265
Refrigerated Warehouse-Rail	53.23	10.8052	0.6386	0.0000	26.7695
Retirement Community	36.34	7.3767	0.4360	0.0000	18.2754
Single Family Housing	323.49	65.6656	3.8807	0.0000	162.6836
Strip Mall	1047.76	212.6858	12.5694	0.0000	526.9201
Unrefrigerated Warehouse-No Rail	473.01	96.0168	5.6744	0.0000	237.8775
Total		1,579.7264	93.3591	0.0000	3,913.7054

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
