

Appendix B



Air Quality and GHG Worksheets

2nd & PCH Project

Draft EIR

Appendix B AQ/GHG Worksheets March 2017

- B.1 Air Quality Worksheets
- B.2 Greenhouse Gas Worksheets

Appendix B.1 - Air Quality

- Calculation of Localized Significance Thresholds
- Summary of Emissions (Construction and Operation)
- CalEEMod Output Files
 - Existing 2016
 - No Project 2019
 - Project 2019 (Construction and Operation)

Step 1. Determine Allowable Increase using 98th percentile NO2 and Max NO2 data

South Coastal LA County NO2 Monitoring Data

Stn #	City	Design Value	98th percentile, ppb			
		2008-2010	2010	2011	2012	2013
72	SCLA	62	76	68	63	56

Threshold (ppb) Allowable Increase (ppb)
100 38

Stn #	City	2	Max Hourly, ppb			
		2006-2008	2007	2008	2009	2010
72	SCLA	125	107	125	111	93

Threshold (ppb) Allowable Increase (ppb)
180 55

Max Hourly vs. 98th Percentile Ratio (Allowable Increase) **69%**

Step 2. Use ratio in Step 1 to determine LST lookup value. Extrapolate/Interpolate LST look-up value for project area

LST Threshold (SRA 1, 150 meter receptor)

Project Size (acres)	NO2 (lbs/day)	98th Percentile NO2 (lbs/day)	CO (lbs/day)	PM10 (lbs/day)	PM2.5 (lbs/day)		
5	134	92	3399	75	29	18	8

AQ Summary for Section

Summary of Project Emissions (Unmitigated)

Construction

Regional (Daily)	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
2017	9	91	50	0	13	7
2018	39	89	104	0	38	13
2019	28	33	28	0	2	2
MAX	39	91	104	0	38	13
Threshold	75	100	550	150	150	55
Difference	36	9	446	150	112	42

Localized (Daily)	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
2017			83	46	6	4
2018			66	46	6	4
2019			35	25	2	2
MAX			83	46	6	4
Threshold			92	3399	75	29
Difference			9	3,353	69	25

Summary of Project Emissions (Existing 2016)

	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Area	8	0	0	0	0	0
Energy	0	3	3	0	0	0
Mobile	2	9	27	0	4	1
Stationary	0	0	0	0	0	0
	10	13	30	0	5	2

Summary of Project Emissions (No Project 2019)

	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Area	8	0	0	0	0	0
Energy	0	3	3	0	0	0
Mobile	2	8	20	0	4	1
Stationary	0	0	0	0	0	0
	10	11	22	0	5	1

Summary of Project Emissions (Project 2019)

	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Area	6	0	0	0	0	0
Energy	1	5	5	0	0	0
Mobile	37	144	320	1	57	16
Stationary	0	0	0	0	0	0
	43	149	325	1	57	16

Net 2019

	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Area	-2	0	0	0	0	0
Energy	0	2	2	0	0	0
Mobile	35	136	301	1	53	15
Stationary	0	0	0	0	0	0
Total	33	138	303	1	53	15
Threshold	55	55	550	150	150	55
Difference	22	-83	247	149	97	40
Onsite Total		138	303		53	15
Threshold		88	1698		4.0	2.0
Difference		-50	1395		-49	-13

PCH & 2nd No Project - Los Angeles-South Coast County, Winter

PCH & 2nd Existing
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	400.00	Space	3.60	160,000.00	0
Motel	170.00	Room	7.65	333,234.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2016
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Construction Phase - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Trips and VMT - Site Specific

Energy Use - The No Project Scenario would not comply with 2016 Title 24.

Construction Off-road Equipment Mitigation - Site Specific

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblProjectCharacteristics	OperationalYear	2018	2016
tblTripsAndVMT	HaulingTripNumber	1,081.00	900.00

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	2.4364	9.4658	27.2261	0.0589	4.2378	0.0964	4.3343	1.1349	0.0911	1.2260							5,976.3969
Unmitigated	2.5614	10.2919	30.0706	0.0668	4.8432	0.1087	4.9520	1.2970	0.1027	1.3997							6,771.9670

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Motel	957.10	957.10	957.10	2,276,091	1,991,580
Parking Lot	0.00	0.00	0.00		
Total	957.10	957.10	957.10	2,276,091	1,991,580

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Motel	16.60	8.40	6.90	19.00	62.00	19.00	58	38	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
NaturalGas Mitigated	0.3568	3.2437	2.7247	0.0195		0.2465	0.2465		0.2465	0.2465							3,915.6049
NaturalGas Unmitigated	0.3568	3.2437	2.7247	0.0195		0.2465	0.2465		0.2465	0.2465							3,915.6049

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Motel	33086	0.3568	3.2437	2.7247	0.0195		0.2465	0.2465		0.2465	0.2465							3,915.6049
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Total		0.3568	3.2437	2.7247	0.0195		0.2465	0.2465		0.2465	0.2465							3,915.6049

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Motel	33.086	0.3568	3.2437	2.7247	0.0195		0.2465	0.2465		0.2465	0.2465							3,915.6049
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Total		0.3568	3.2437	2.7247	0.0195		0.2465	0.2465		0.2465	0.2465							3,915.6049

PCH & 2nd No Project - Los Angeles-South Coast County, Winter

PCH & 2nd No Project
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	400.00	Space	3.60	160,000.00	0
Motel	170.00	Room	7.65	333,234.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Construction Phase - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Trips and VMT - Site Specific
- Energy Use - The No Project Scenario would not comply with 2016 Title 24.
- Construction Off-road Equipment Mitigation - Site Specific

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblEnergyUse	LightingElect	0.88	0.88
tblProjectCharacteristics	OperationalYear	2018	2019
tblTripsAndVMT	HaulingTripNumber	1,081.00	900.00

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.7565	7.7747	19.5761	0.0551	4.2354	0.0665	4.3019	1.1337	0.0625	1.1962						5,602.3570
Unmitigated	1.8422	8.3850	21.6227	0.0624	4.8404	0.0750	4.9154	1.2956	0.0705	1.3661						6,342.0946

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Motel	957.10	957.10	957.10	2,276,091	1,991,580
Parking Lot	0.00	0.00	0.00		
Total	957.10	957.10	957.10	2,276,091	1,991,580

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Motel	16.60	8.40	6.90	19.00	62.00	19.00	58	38	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Motel	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
NaturalGas Mitigated	0.3568	3.2437	2.7247	0.0195		0.2465	0.2465		0.2465	0.2465							3,915.6049
NaturalGas Unmitigated	0.3568	3.2437	2.7247	0.0195		0.2465	0.2465		0.2465	0.2465							3,915.6049

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Motel	33086	0.3568	3.2437	2.7247	0.0195		0.2465	0.2465		0.2465	0.2465						3,915.6049
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		0.3568	3.2437	2.7247	0.0195		0.2465	0.2465		0.2465	0.2465						3,915.6049

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Motel	33.086	0.3568	3.2437	2.7247	0.0195		0.2465	0.2465		0.2465	0.2465						3,915.6049
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		0.3568	3.2437	2.7247	0.0195		0.2465	0.2465		0.2465	0.2465						3,915.6049

PCH & 2nd - Los Angeles-South Coast County, Winter

PCH & 2nd
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	1,150.00	Space	10.35	460,000.00	0
Health Club	25.00	1000sqft	0.57	25,000.00	0
High Turnover (Sit Down Restaurant)	30.00	1000sqft	0.69	30,000.00	0
Quality Restaurant	40.00	1000sqft	0.92	40,000.00	0
Regional Shopping Center	95.00	1000sqft	2.18	95,000.00	0
Supermarket	55.00	1000sqft	1.26	55,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Construction Phase - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Trips and VMT - Site Specific

Energy Use - CalGreen 2016

Construction Off-road Equipment Mitigation - Site Specific

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	20.00	101.00
tblConstructionPhase	NumDays	300.00	202.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	30.00	91.00
tblConstructionPhase	NumDays	20.00	43.00
tblEnergyUse	T24E	1.71	1.62
tblEnergyUse	T24E	9.13	8.67
tblEnergyUse	T24E	9.13	8.67
tblEnergyUse	T24E	3.07	2.92
tblEnergyUse	T24E	4.94	2.76
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Health Club
tblFleetMix	FleetMixLandUseSubType	Health Club	High Turnover (Sit Down Restaurant)
tblFleetMix	FleetMixLandUseSubType	High Turnover (Sit Down Restaurant)	Parking Lot
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblTripsAndVMT	HaulingTripNumber	1,081.00	900.00
tblTripsAndVMT	HaulingTripNumber	0.00	910.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	116.00	50.00
tblTripsAndVMT	VendorTripNumber	116.00	50.00

tblTripsAndVMT	VendorTripNumber	116.00	50.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	38.00	40.00
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	281.00	350.00
tblTripsAndVMT	WorkerTripNumber	281.00	350.00
tblTripsAndVMT	WorkerTripNumber	281.00	350.00
tblTripsAndVMT	WorkerTripNumber	56.00	0.00
tblTripsAndVMT	WorkerTripNumber	56.00	0.00
tblTripsAndVMT	WorkerTripNumber	35.00	60.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/4/2017	11/3/2017	5	45	
2	Grading	Grading	11/6/2017	3/12/2018	5	91	
3	Building Construction	Building Construction	3/13/2018	12/19/2018	5	202	
4	Architectural Coating	Architectural Coating	10/1/2018	2/18/2019	5	101	
5	Paving	Paving	12/20/2018	2/18/2019	5	43	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 227.5

Acres of Paving: 10.35

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 367,500; Non-Residential Outdoor: 122,500; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	2	8.00	78	0.48
Demolition	Concrete/Industrial Saws	3	8.00	81	0.73
Demolition	Cranes	1	4.00	231	0.29
Demolition	Excavators	4	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Demolition	Rubber Tired Loaders	3	8.00	203	0.36
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Building Construction	Aerial Lifts	3	8.00	63	0.31
Building Construction	Air Compressors	3	8.00	78	0.48
Building Construction	Cement and Mortar Mixers	3	8.00	9	0.56
Building Construction	Cranes	4	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Plate Compactors	4	8.00	8	0.43
Building Construction	Pumps	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	0	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
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
Paving	Rubber Tired Loaders	2	8.00	203	0.36
Paving	Skid Steer Loaders	3	8.00	65	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	15	40.00	0.00	900.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	40.00	10.00	910.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	28	350.00	50.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	28	350.00	50.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	28	350.00	50.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	14	60.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.1982	0.0000	5.1982	0.7871	0.0000	0.7871						0.0000
Off-Road	8.2766	83.3311	45.7172	0.0861		4.2633	4.2633		4.0328	4.0328						8,653.1522
Total	8.2766	83.3311	45.7172	0.0861	5.1982	4.2633	9.4615	0.7871	4.0328	4.8198						8,653.1522

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2312	7.0540	1.5199	0.0161	0.3497	0.0373	0.3870	0.0958	0.0357	0.1315						1,740.2740
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.2766	0.2125	2.2797	4.8800e-003	0.4471	4.1600e-003	0.4513	0.1186	3.8400e-003	0.1224						486.0724
Total	0.5078	7.2664	3.7996	0.0210	0.7968	0.0415	0.8382	0.2144	0.0395	0.2539						2,226.3464

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0273	0.0000	2.0273	0.3070	0.0000	0.3070						0.0000
Off-Road	8.2766	83.3311	45.7172	0.0861		4.2633	4.2633		4.0328	4.0328						8,653.1522
Total	8.2766	83.3311	45.7172	0.0861	2.0273	4.2633	6.2906	0.3070	4.0328	4.3397						8,653.1522

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2312	7.0540	1.5199	0.0161	0.3497	0.0373	0.3870	0.0958	0.0357	0.1315						1,740.2740
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.2766	0.2125	2.2797	4.8800e-003	0.4471	4.1600e-003	0.4513	0.1186	3.8400e-003	0.1224						486.0724
Total	0.5078	7.2664	3.7996	0.0210	0.7968	0.0415	0.8382	0.2144	0.0395	0.2539						2,226.3464

3.3 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965							0.0000
Off-Road	5.8754	70.1504	37.2726	0.0631		3.0887	3.0887		2.8416	2.8416							6,505.6784
Total	5.8754	70.1504	37.2726	0.0631	8.6733	3.0887	11.7621	3.5965	2.8416	6.4381							6,505.6784

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.1156	3.5270	0.7600	8.0500e-003	0.3434	0.0187	0.3621	0.0893	0.0178	0.1071							870.1370
Vendor	0.0543	1.3084	0.4066	2.5900e-003	0.0640	0.0111	0.0751	0.0184	0.0106	0.0290							275.7592
Worker	0.2766	0.2125	2.2797	4.8800e-003	0.4471	4.1600e-003	0.4513	0.1186	3.8400e-003	0.1224							486.0724
Total	0.4465	5.0478	3.4462	0.0155	0.8545	0.0339	0.8884	0.2263	0.0323	0.2586							1,631.9686

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026							0.0000
Off-Road	5.8754	70.1504	37.2726	0.0631		3.0887	3.0887		2.8416	2.8416							6,505.6784
Total	5.8754	70.1504	37.2726	0.0631	3.3826	3.0887	6.4713	1.4026	2.8416	4.2443							6,505.6784

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.1156	3.5270	0.7600	8.0500e-003	0.3434	0.0187	0.3621	0.0893	0.0178	0.1071							870.1370
Vendor	0.0543	1.3084	0.4066	2.5900e-003	0.0640	0.0111	0.0751	0.0184	0.0106	0.0290							275.7592
Worker	0.2766	0.2125	2.2797	4.8800e-003	0.4471	4.1600e-003	0.4513	0.1186	3.8400e-003	0.1224							486.0724
Total	0.4465	5.0478	3.4462	0.0155	0.8545	0.0339	0.8884	0.2263	0.0323	0.2586							1,631.9686

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965						0.0000
Off-Road	5.2308	61.7508	33.5492	0.0631		2.6642	2.6642		2.4511	2.4511						6,403.1557
Total	5.2308	61.7508	33.5492	0.0631	8.6733	2.6642	11.3375	3.5965	2.4511	6.0476						6,403.1557

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1018	3.2749	0.7151	7.9700e-003	0.2785	0.0125	0.2911	0.0734	0.0120	0.0854						862.5289
Vendor	0.0479	1.2284	0.3683	2.5700e-003	0.0640	8.7700e-003	0.0728	0.0184	8.3900e-003	0.0268						274.6444
Worker	0.2446	0.1847	1.9891	4.7500e-003	0.4471	3.9900e-003	0.4511	0.1186	3.6800e-003	0.1223						472.6747
Total	0.3943	4.6879	3.0725	0.0153	0.7897	0.0253	0.8149	0.2104	0.0241	0.2344						1,609.8480

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026							0.0000
Off-Road	5.2308	61.7508	33.5492	0.0631		2.6642	2.6642		2.4511	2.4511							6,403.1557
Total	5.2308	61.7508	33.5492	0.0631	3.3826	2.6642	6.0468	1.4026	2.4511	3.8537							6,403.1557

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.1018	3.2749	0.7151	7.9700e-003	0.2785	0.0125	0.2911	0.0734	0.0120	0.0854							862.5289
Vendor	0.0479	1.2284	0.3683	2.5700e-003	0.0640	8.7700e-003	0.0728	0.0184	8.3900e-003	0.0268							274.6444
Worker	0.2446	0.1847	1.9891	4.7500e-003	0.4471	3.9900e-003	0.4511	0.1186	3.6800e-003	0.1223							472.6747
Total	0.3943	4.6879	3.0725	0.0153	0.7897	0.0253	0.8149	0.2104	0.0241	0.2344							1,609.8480

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	7.6616	65.5564	46.3754	0.0788		3.7536	3.7536		3.5796	3.5796							7,554.3577
Total	7.6616	65.5564	46.3754	0.0788		3.7536	3.7536		3.5796	3.5796							7,554.3577

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Vendor	0.7191	18.4253	5.5251	0.0386	2.3287	0.1316	2.4603	0.6124	0.1259	0.7383							4,119.656
Worker	6.4205	4.8479	52.2133	0.1246	32.1433	0.1046	32.2480	8.1215	0.0965	8.2180							12,407.7104
Total	7.1396	23.2732	57.7384	0.1632	34.4720	0.2363	34.7082	8.7339	0.2224	8.9563							16,527.3760

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	7.6616	65.5564	46.3754	0.0788		3.7536	3.7536		3.5796	3.5796							7,554.3577
Total	7.6616	65.5564	46.3754	0.0788		3.7536	3.7536		3.5796	3.5796							7,554.3577

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Vendor	0.7191	18.4253	5.5251	0.0386	2.3287	0.1316	2.4603	0.6124	0.1259	0.7383							4,119.6656
Worker	6.4205	4.8479	52.2133	0.1246	32.1433	0.1046	32.2480	8.1215	0.0965	8.2180							12,407.7104
Total	7.1396	23.2732	57.7384	0.1632	34.4720	0.2363	34.7082	8.7339	0.2224	8.9563							16,527.3760

3.6 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.8560	31.3501	25.1123	0.0460		1.4879	1.4879		1.3712	1.3712							4,552.2177
Paving	0.6306					0.0000	0.0000		0.0000	0.0000							0.0000
Total	3.4867	31.3501	25.1123	0.0460		1.4879	1.4879		1.3712	1.3712							4,552.2177

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Vendor	0.0433	1.1589	0.3385	2.5400e-003	0.0640	7.5000e-003	0.0715	0.0184	7.1700e-003	0.0256							271.7535
Worker	0.3323	0.2440	2.6549	6.8800e-003	0.6707	5.7800e-003	0.6764	0.1779	5.3300e-003	0.1832							685.8679
Total	0.3756	1.4028	2.9933	9.4200e-003	0.7347	0.0133	0.7480	0.1963	0.0125	0.2088							957.6214

Mitigated Construction On-Site

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Diversity

Improve Destination Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	36.7743	143.8681	320.4843	0.7769	56.0517	0.9669	57.0186	15.0032	0.9080	15.9111						79,105.2944
Unmitigated	39.9100	166.1928	395.3505	1.0431	78.1842	1.2758	79.4600	20.9273	1.1985	22.1258						106,164.5013

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Health Club	823.25	521.75	668.25	1,621,265	1,162,315
High Turnover (Sit Down Restaurant)	3,814.50	4,751.10	3955.20	5,408,257	3,877,280
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	3,598.00	3,774.40	2886.40	5,013,379	3,594,185
Regional Shopping Center	4,056.50	4,747.15	2397.80	8,474,471	6,075,506
Supermarket	5,623.20	9,767.45	9154.20	8,866,401	6,356,488
Total	17,915.45	23,561.85	19,061.85	29,383,772	21,065,774

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Health Club	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
High Turnover (Sit Down Restaurant)	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Parking Lot	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Quality Restaurant	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Regional Shopping Center	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Supermarket	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.5918	5.3795	4.5188	0.0323		0.4088	0.4088		0.4088	0.4088						6,493.7682
NaturalGas Unmitigated	0.5918	5.3795	4.5188	0.0323		0.4088	0.4088		0.4088	0.4088						6,493.7682

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Health Club	1436.3	0.0155	0.1408	0.1183	8.4000e-004		0.0107	0.0107		0.0107	0.0107						169.9808
High Turnover (Sit Down Restaurant)	21346	0.2302	2.0928	1.7579	0.0126		0.1591	0.1591		0.1591	0.1591						2,526.2207
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000

Quality Restaurant	28461.4	0.3069	2.7903	2.3439	0.0167		0.2121	0.2121		0.2121	0.2121						3,368.2943
Regional Shopping Center	523.151	5.6400e-003	0.0513	0.0431	3.1000e-004		3.9000e-003	3.9000e-003		3.9000e-003	3.9000e-003						61.9129
Supermarket	3104.11	0.0335	0.3043	0.2556	1.8300e-003		0.0231	0.0231		0.0231	0.0231						367.3595
Total		0.5918	5.3795	4.5188	0.0323		0.4089	0.4089		0.4089	0.4089						6,493.7682

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Health Club	1.4363	0.0155	0.1408	0.1183	8.4000e-004		0.0107	0.0107		0.0107	0.0107						169.9808
High Turnover (Sit Down Restaurant)	21.346	0.2302	2.0928	1.7579	0.0126		0.1591	0.1591		0.1591	0.1591						2,526.2207
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Quality Restaurant	28.4614	0.3069	2.7903	2.3439	0.0167		0.2121	0.2121		0.2121	0.2121						3,368.2943
Regional Shopping Center	0.523151	5.6400e-003	0.0513	0.0431	3.1000e-004		3.9000e-003	3.9000e-003		3.9000e-003	3.9000e-003						61.9129
Supermarket	3.10411	0.0335	0.3043	0.2556	1.8300e-003		0.0231	0.0231		0.0231	0.0231						367.3595
Total		0.5918	5.3795	4.5188	0.0323		0.4089	0.4089		0.4089	0.4089						6,493.7682

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6848	1.3400e-003	0.1438	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004						0.3260
Unmitigated	5.6848	1.3400e-003	0.1438	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004						0.3260

Appendix B.2 – Greenhouse Gas

- CalEEMod Output Files
 - GHG Existing
 - GHG No Project 2019
 - GHG NIERM
 - GHG Project 2019 (Construction and Operation)

PCH & 2nd No Project - Los Angeles-South Coast County, Annual

PCH & 2nd Existing
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	400.00	Space	3.60	160,000.00	0
Motel	170.00	Room	7.65	333,234.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2016
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Trips and VMT - Site Specific

Energy Use - The No Project Scenario would not comply with 2016 Title 24.

Construction Off-road Equipment Mitigation - Site Specific

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblProjectCharacteristics	OperationalYear	2018	2016
tblTripsAndVMT	HaulingTripNumber	1,081.00	900.00

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4284	1.7551	4.9957	0.0109	0.7564	0.0174	0.7738	0.2029	0.0165	0.2194						1,001.2358
Unmitigated	0.4514	1.9086	5.5265	0.0123	0.8645	0.0197	0.8841	0.2319	0.0186	0.2504						1,134.1880

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Motel	957.10	957.10	957.10	2,276,091	1,991,580
Parking Lot	0.00	0.00	0.00		
Total	957.10	957.10	957.10	2,276,091	1,991,580

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Motel	16.60	8.40	6.90	19.00	62.00	19.00	58	38	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Motel	3.52895e+006				1,128.4210
Parking Lot	140800				45.0224
Total					1,173.4434

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Motel	3.21987e+006				1,029.5910
Parking Lot	105600				33.7668
Total					1,063.3577

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	1.3719	7.0000e-005	7.4600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						0.0152
Unmitigated	1.3719	7.0000e-005	7.4600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						0.0152

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	0.1567					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	1.2145					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	7.3000e-004	7.0000e-005	7.4600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						0.0152
Total	1.3719	7.0000e-005	7.4600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						0.0152

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	0.1567					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	1.2145					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	7.3000e-004	7.0000e-005	7.4600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						0.0152
Total	1.3719	7.0000e-005	7.4600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						0.0152

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				25.5270
Unmitigated				25.5270

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Motel	4.31235 / 0.47915				25.5270
Parking Lot	0 / 0				0.0000
Total					25.5270

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Motel	4.31235 / 0.47915				25.5270
Parking Lot	0 / 0				0.0000
Total					25.5270

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				46.8101
Unmitigated				46.8101

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Motel	93.08				46.8101
Parking Lot	0				0.0000
Total					46.8101

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Motel	93.08				46.8101
Parking Lot	0				0.0000
Total					46.8101

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PCH & 2nd No Project
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	400.00	Space	3.60	160,000.00	0
Motel	170.00	Room	7.65	333,234.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

- Construction Phase - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Trips and VMT - Site Specific
- Energy Use - The No Project Scenario would not comply with 2016 Title 24.
- Construction Off-road Equipment Mitigation - Site Specific

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblEnergyUse	LightingElect	0.88	0.88
tblProjectCharacteristics	OperationalYear	2018	2019
tblTripsAndVMT	HaulingTripNumber	1,081.00	900.00

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3100	1.4413	3.5929	0.0102	0.7560	0.0120	0.7680	0.2027	0.0113	0.2140						939.0219
Unmitigated	0.3258	1.5547	3.9753	0.0115	0.8640	0.0136	0.8775	0.2316	0.0127	0.2444						1,062.6182

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Motel	957.10	957.10	957.10	2,276,091	1,991,580
Parking Lot	0.00	0.00	0.00		
Total	957.10	957.10	957.10	2,276,091	1,991,580

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Motel	16.60	8.40	6.90	19.00	62.00	19.00	58	38	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Motel	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Electricity Mitigated						0.0000	0.0000		0.0000	0.0000							1,063.2043
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000							1,173.2388
NaturalGas Mitigated	0.0651	0.5920	0.4973	3.5500e-003		0.0450	0.0450		0.0450	0.0450							648.2723
NaturalGas Unmitigated	0.0651	0.5920	0.4973	3.5500e-003		0.0450	0.0450		0.0450	0.0450							648.2723

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						
Motel	1.20764e+007	0.0651	0.5920	0.4973	3.5500e-003		0.0450	0.0450		0.0450	0.0450							648.2723
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Total		0.0651	0.5920	0.4973	3.5500e-003		0.0450	0.0450		0.0450	0.0450							648.2723

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						
Motel	1.20764e+007	0.0651	0.5920	0.4973	3.5500e-003		0.0450	0.0450		0.0450	0.0450							648.2723
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Total		0.0651	0.5920	0.4973	3.5500e-003		0.0450	0.0450		0.0450	0.0450							648.2723

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Motel	3.52895e+006				1,128.4210

Parking Lot	140160				44.8177
Total					1,173.2388

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Motel	3.21987e+006				1,029.5910
Parking Lot	105120				33.6133
Total					1,063.2043

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	1.3719	7.0000e-005	7.3500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005							0.0151
Unmitigated	1.3719	7.0000e-005	7.3500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005							0.0151

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	0.1567					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	1.2145					0.0000	0.0000		0.0000	0.0000							0.0000
Landscaping	7.0000e-004	7.0000e-005	7.3500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005							0.0151
Total	1.3719	7.0000e-005	7.3500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005							0.0151

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	0.1567					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	1.2145					0.0000	0.0000		0.0000	0.0000							0.0000
Landscaping	7.0000e-004	7.0000e-005	7.3500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005							0.0151
Total	1.3719	7.0000e-005	7.3500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005							0.0151

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				25.5270
Unmitigated				25.5270

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Motel	4.31235 / 0.47915				25.5270
Parking Lot	0 / 0				0.0000
Total					25.5270

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

Motel	4.31235 / 0.47915			25.5270
Parking Lot	0 / 0			0.0000
Total				25.5270

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				46.8101
Unmitigated				46.8101

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Motel	93.08				46.8101
Parking Lot	0				0.0000
Total					46.8101

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Motel	93.08				46.8101
Parking Lot	0				0.0000
Total					46.8101

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PCH & 2nd NIERM
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	1,150.00	Space	10.35	460,000.00	0
Health Club	25.00	1000sqft	0.57	25,000.00	0
High Turnover (Sit Down Restaurant)	30.00	1000sqft	0.69	30,000.00	0
Quality Restaurant	40.00	1000sqft	0.92	40,000.00	0
Regional Shopping Center	95.00	1000sqft	2.18	95,000.00	0
Supermarket	55.00	1000sqft	1.26	55,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8	Operational Year		2019	
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

- Construction Phase - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Trips and VMT - Site Specific
- Energy Use - CalGreen 2016
- Construction Off-road Equipment Mitigation - Site Specific

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	20.00	101.00
tblConstructionPhase	NumDays	300.00	202.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	30.00	91.00
tblConstructionPhase	NumDays	20.00	43.00
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Health Club
tblFleetMix	FleetMixLandUseSubType	Health Club	High Turnover (Sit Down Restaurant)
tblFleetMix	FleetMixLandUseSubType	High Turnover (Sit Down Restaurant)	Parking Lot
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2019

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Diversity

Improve Destination Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Mitigated	5.1094	21.1757	46.3925	0.1148	7.9961	0.1389	8.1350	2.1438	0.1304	2.2742							10,608.5006
Unmitigated	5.5694	24.4901	57.5719	0.1540	11.1534	0.1838	11.3372	2.9903	0.1726	3.1629							14,221.9722

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Health Club	823.25	521.75	668.25	1,621,265	1,162,315
High Turnover (Sit Down Restaurant)	3,814.50	4,751.10	3955.20	5,408,257	3,877,280
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	3,598.00	3,774.40	2886.40	5,013,379	3,594,185
Regional Shopping Center	4,056.50	4,747.15	2397.80	8,474,471	6,075,506
Supermarket	5,623.20	9,767.45	9154.20	8,866,401	6,356,488
Total	17,915.45	23,561.85	19,061.85	29,383,772	21,065,774

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Health Club	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
High Turnover (Sit Down Restaurant) Parking Lot	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Quality Restaurant	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Regional Shopping Center	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Supermarket	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000						1,983.8599
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000						2,255.2477
NaturalGas Mitigated	0.1104	1.0034	0.8428	6.0200e-003		0.0763	0.0763		0.0763	0.0763						1,098.7707
NaturalGas Unmitigated	0.1104	1.0034	0.8428	6.0200e-003		0.0763	0.0763		0.0763	0.0763						1,098.7707

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Health Club	552500	2.9800e-003	0.0271	0.0228	1.6000e-004		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003							29.6587
High Turnover (Sit Down Restaurant)	7.9338e+006	0.0428	0.3889	0.3267	2.3300e-003		0.0296	0.0296		0.0296	0.0296							425.8937
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Quality Restaurant	1.05784e+007	0.0570	0.5186	0.4356	3.1100e-003		0.0394	0.0394		0.0394	0.0394							567.8583
Regional Shopping Center	200450	1.0800e-003	9.8300e-003	8.2500e-003	6.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004							10.7603
Supermarket	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							64.5996
Total		0.1104	1.0034	0.8428	6.0100e-003		0.0763	0.0763		0.0763	0.0763							1,098.7706

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Health Club	552500	2.9800e-003	0.0271	0.0228	1.6000e-004		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003							29.6587
High Turnover (Sit Down Restaurant)	7.9338e+006	0.0428	0.3889	0.3267	2.3300e-003		0.0296	0.0296		0.0296	0.0296							425.8937
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Quality Restaurant	1.05784e+007	0.0570	0.5186	0.4356	3.1100e-003		0.0394	0.0394		0.0394	0.0394							567.8583
Regional Shopping Center	200450	1.0800e-003	9.8300e-003	8.2500e-003	6.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004							10.7603
Supermarket	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							64.5996
Total		0.1104	1.0034	0.8428	6.0100e-003		0.0763	0.0763		0.0763	0.0763							1,098.7706

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Health Club	241250				77.1424
High Turnover (Sit Down Restaurant)	1.2174e+06				389.2774
Parking Lot	402960				128.8510
Quality Restaurant	1.6232e+06				519.0366
Regional Shopping Center	1.2768e+06				408.2712
Supermarket	2.2913e+06				732.6691
Total					2,255.2477

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Health Club	215463				68.8966
High Turnover (Sit Down Restaurant)	1.1484e+06				367.2139
Parking Lot	302220				96.6383
Quality Restaurant	1.47294e+06				470.9892
Regional Shopping Center	1.09958e+06				351.6023
Supermarket	1.96559e+06				628.5196
Total					1,983.8599

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				173.5637
Unmitigated				225.9937

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Health Club	1.47858 / 0.906226				11.3882
High Turnover (Sit Down Restaurant)	9.10601 / 0.581235				52.3735
Parking Lot	0 / 0				0.0000
Quality Restaurant	12.1413 / 0.77498				69.8314
Regional Shopping Center	7.03689 / 4.31293				54.1991
Supermarket	6.77975 / 0.209683				38.2015
Total					225.9937

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Health Club	1.18286 / 0.453113				8.1448
High Turnover (Sit Down Restaurant)	7.28481 / 0.290617				41.2794
Parking Lot	0 / 0				0.0000
Quality Restaurant	9.71308 / 0.38749				55.0391
Regional Shopping Center	5.62951 / 2.15647				38.7627
Supermarket	5.4238 / 0.104842				30.3377
Total					173.5637

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				475.7197
Unmitigated				475.7197

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Health Club	142.5				71.6635
High Turnover (Sit Down Restaurant)	357				179.5358
Parking Lot	0				0.0000
Quality Restaurant	36.5				18.3559
Regional Shopping Center	99.75				50.1644
Supermarket	310.2				156.0001
Total					475.7197

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Health Club	142.5				71.6635
High Turnover (Sit Down Restaurant)	357				179.5358
Parking Lot	0				0.0000
Quality Restaurant	36.5				18.3559
Regional Shopping Center	99.75				50.1644
Supermarket	310.2				156.0001
Total					475.7197

PCH & 2nd - Los Angeles-South Coast County, Annual

PCH & 2nd
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	1,150.00	Space	10.35	460,000.00	0
Health Club	25.00	1000sqft	0.57	25,000.00	0
High Turnover (Sit Down Restaurant)	30.00	1000sqft	0.69	30,000.00	0
Quality Restaurant	40.00	1000sqft	0.92	40,000.00	0
Regional Shopping Center	95.00	1000sqft	2.18	95,000.00	0
Supermarket	55.00	1000sqft	1.26	55,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Construction Phase - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Trips and VMT - Site Specific

Energy Use - CalGreen 2016

Construction Off-road Equipment Mitigation - Site Specific

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	20.00	101.00
tblConstructionPhase	NumDays	300.00	202.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	30.00	91.00
tblConstructionPhase	NumDays	20.00	43.00
tblEnergyUse	T24E	1.71	1.62
tblEnergyUse	T24E	9.13	8.67
tblEnergyUse	T24E	9.13	8.67
tblEnergyUse	T24E	3.07	2.92
tblEnergyUse	T24E	4.94	2.76
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Health Club
tblFleetMix	FleetMixLandUseSubType	Health Club	High Turnover (Sit Down Restaurant)
tblFleetMix	FleetMixLandUseSubType	High Turnover (Sit Down Restaurant)	Parking Lot
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblTripsAndVMT	HaulingTripNumber	1,081.00	900.00
tblTripsAndVMT	HaulingTripNumber	0.00	910.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	116.00	50.00
tblTripsAndVMT	VendorTripNumber	116.00	50.00

tblTripsAndVMT	VendorTripNumber	116.00	50.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	38.00	40.00
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	281.00	350.00
tblTripsAndVMT	WorkerTripNumber	281.00	350.00
tblTripsAndVMT	WorkerTripNumber	281.00	350.00
tblTripsAndVMT	WorkerTripNumber	56.00	0.00
tblTripsAndVMT	WorkerTripNumber	56.00	0.00
tblTripsAndVMT	WorkerTripNumber	35.00	60.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.3229	3.5477	1.9287	3.9900e-003	0.5460	0.1593	0.7053	0.1905	0.1491	0.3396						370.5906
2018	2.3758	10.8646	11.6734	0.0269	3.8244	0.4783	4.3027	1.0335	0.4534	1.4869						2,437.6248
2019	0.4827	0.5737	0.4928	9.7000e-004	0.0126	0.0263	0.0389	3.3700e-003	0.0242	0.0276						87.7230
Maximum	2.3758	10.8646	11.6734	0.0269	3.8244	0.4783	4.3027	1.0335	0.4534	1.4869						2,437.6248

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.3229	3.5477	1.9287	3.9900e-003	0.2339	0.1593	0.3932	0.0799	0.1491	0.2290						370.5902
2018	2.3758	10.8646	11.6734	0.0269	3.5836	0.4783	4.0620	0.9337	0.4534	1.3870						2,437.6237
2019	0.4827	0.5737	0.4928	9.7000e-004	0.0126	0.0263	0.0389	3.3700e-003	0.0242	0.0276						87.7229
Maximum	2.3758	10.8646	11.6734	0.0269	3.5836	0.4783	4.0620	0.9337	0.4534	1.3870						2,437.6237

	ROG	NOx	CO	SO2	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	12.61	0.00	10.95	17.15	0.00	11.35	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-4-2017	12-3-2017	2.9788	2.9788
2	12-4-2017	3-3-2018	2.4109	2.4109
3	3-4-2018	6-3-2018	3.2770	3.2770
4	6-4-2018	9-3-2018	3.3669	3.3669
5	9-4-2018	12-3-2018	3.8997	3.8997
6	12-4-2018	3-3-2019	2.0614	2.0614
		Highest	3.8997	3.8997

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	1.0367	1.7000e-004	0.0180	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005						0.0370
Energy	0.1080	0.9818	0.8247	5.8900e-003		0.0746	0.0746		0.0746	0.0746						3,093.3376
Mobile	5.5694	24.4901	57.5719	0.1540	11.1534	0.1838	11.3372	2.9903	0.1726	3.1629						14,221.9722
Waste						0.0000	0.0000		0.0000	0.0000						475.7197
Water						0.0000	0.0000		0.0000	0.0000						225.9937
Total	6.7141	25.4721	58.4145	0.1599	11.1534	0.2584	11.4118	2.9903	0.2473	3.2376						18,017.0602

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	1.0367	1.7000e-004	0.0180	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005						0.0370
Energy	0.1045	0.9498	0.7978	5.7000e-003		0.0722	0.0722		0.0722	0.0722						2,775.0259
Mobile	5.1094	21.1757	46.3925	0.1148	7.9961	0.1389	8.1350	2.1438	0.1304	2.2742						10,608.5006
Waste						0.0000	0.0000		0.0000	0.0000						475.7197
Water						0.0000	0.0000		0.0000	0.0000						173.5637
Total	6.2506	22.1257	47.2083	0.1205	7.9961	0.2111	8.2072	2.1438	0.2026	2.3464						14,032.8469

	ROG	NOx	CO	SO2	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	6.90	13.14	19.18	24.64	28.31	18.31	28.08	28.31	18.06	27.52	0.00	0.00	0.00	0.00	0.00	22.11

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/4/2017	11/3/2017	5	45	
2	Grading	Grading	11/6/2017	3/12/2018	5	91	
3	Building Construction	Building Construction	3/13/2018	12/19/2018	5	202	
4	Architectural Coating	Architectural Coating	10/1/2018	2/18/2019	5	101	
5	Paving	Paving	12/20/2018	2/18/2019	5	43	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 227.5

Acres of Paving: 10.35

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 367,500; Non-Residential Outdoor: 122,500; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	2	8.00	78	0.48
Demolition	Concrete/Industrial Saws	3	8.00	81	0.73
Demolition	Cranes	1	4.00	231	0.29
Demolition	Excavators	4	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Demolition	Rubber Tired Loaders	3	8.00	203	0.36
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Aerial Lifts	3	8.00	63	0.31
Building Construction	Air Compressors	3	8.00	78	0.48
Building Construction	Cement and Mortar Mixers	3	8.00	9	0.56
Building Construction	Cranes	4	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Plate Compactors	4	8.00	8	0.43
Building Construction	Pumps	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectoral Coating	Air Compressors	0	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
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
Paving	Rubber Tired Loaders	2	8.00	203	0.36

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
Vendor	7.4000e-004	0.0207	5.6500e-003	5.0000e-005	1.1000e-003	1.3000e-004	1.2300e-003	3.2000e-004	1.2000e-004	4.4000e-004						4.3834
Worker	5.2600e-003	4.3800e-003	0.0477	1.2000e-004	0.0115	1.0000e-004	0.0116	3.0600e-003	9.0000e-005	3.1500e-003						11.0698
Total	6.0000e-003	0.0251	0.0533	1.7000e-004	0.0126	2.3000e-004	0.0128	3.3800e-003	2.1000e-004	3.5900e-003						15.4532

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Diversity

Improve Destination Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.1094	21.1757	46.3925	0.1148	7.9961	0.1389	8.1350	2.1438	0.1304	2.2742						10,608.5006
Unmitigated	5.5694	24.4901	57.5719	0.1540	11.1534	0.1838	11.3372	2.9903	0.1726	3.1629						14,221.9722

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Health Club	823.25	521.75	668.25	1,621,265	1,162,315
High Turnover (Sit Down Restaurant)	3,814.50	4,751.10	3955.20	5,408,257	3,877,280
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	3,598.00	3,774.40	2886.40	5,013,379	3,594,185
Regional Shopping Center	4,056.50	4,747.15	2397.80	8,474,471	6,075,506
Supermarket	5,623.20	9,767.45	9154.20	8,866,401	6,356,488
Total	17,915.45	23,561.85	19,061.85	29,383,772	21,065,774

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down Restaurant)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Health Club	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
High Turnover (Sit Down Restaurant)	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Parking Lot	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Quality Restaurant	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Regional Shopping Center	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Supermarket	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000						1,734.9121
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000						2,018.2214
NaturalGas Mitigated	0.1045	0.9498	0.7978	5.7000e-003		0.0722	0.0722		0.0722	0.0722						1,040.1138
NaturalGas Unmitigated	0.1080	0.9818	0.8247	5.8900e-003		0.0746	0.0746		0.0746	0.0746						1,075.1162

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Health Club	524250	2.8300e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003						28.1422
High Turnover (Sit Down Restaurant)	7.7913e+006	0.0420	0.3819	0.3208	2.2900e-003		0.0290	0.0290		0.0290	0.0290						418.2442
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Quality Restaurant	1.03884e+007	0.0560	0.5092	0.4278	3.0600e-003		0.0387	0.0387		0.0387	0.0387						557.6589
Regional Shopping Center	190950	1.0300e-003	9.3600e-003	7.8600e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004						10.2504
Supermarket	1.133e+006	6.1100e-003	0.0555	0.0467	3.3000e-004		4.2200e-003	4.2200e-003		4.2200e-003	4.2200e-003						60.8205
Total		0.1080	0.9818	0.8247	5.8900e-003		0.0746	0.0746		0.0746	0.0746						1,075.1162

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Health Club	488975	2.6400e-003	0.0240	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003							26.2486
High Turnover (Sit Down Restaurant)	7.55445e+006	0.0407	0.3703	0.3111	2.2200e-003		0.0281	0.0281		0.0281	0.0281							405.5299
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Quality Restaurant	1.00726e+007	0.0543	0.4938	0.4148	2.9600e-003		0.0375	0.0375		0.0375	0.0375							540.7065
Regional Shopping Center	181830	9.8000e-004	8.9100e-003	7.4900e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004							9.7608
Supermarket	1.078e+006	5.8100e-003	0.0528	0.0444	3.2000e-004		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-003							57.8680
Total		0.1045	0.9498	0.7978	5.6900e-003		0.0722	0.0722		0.0722	0.0722							1,040.1138

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Health Club	213250				68.1891
High Turnover (Sit Down Restaurant)	1.0995e+006				351.5776
Parking Lot	404800				129.4394
Quality Restaurant	1.466e+006				468.7701
Regional Shopping Center	1.09915e+006				351.4656
Supermarket	2.02895e+006				648.7797
Total					2,018.2214

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	0.1200					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.9150					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	1.7000e-003	1.7000e-004	0.0180	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005						0.0370
Total	1.0367	1.7000e-004	0.0180	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005						0.0370

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	0.1200					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.9150					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	1.7000e-003	1.7000e-004	0.0180	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005						0.0370
Total	1.0367	1.7000e-004	0.0180	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005						0.0370

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				173.5637
Unmitigated				225.9937

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Health Club	1.47858 / 0.906226				11.3882
High Turnover (Sit Down Restaurant)	9.10601 / 0.581235				52.3735
Parking Lot	0 / 0				0.0000
Quality Restaurant	12.1413 / 0.77498				69.8314
Regional Shopping Center	7.03689 / 4.31293				54.1991
Supermarket	6.77975 / 0.209683				38.2015
Total					225.9937

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Health Club	1.18286 / 0.453113				8.1448
High Turnover (Sit Down Restaurant)	7.28481 / 0.290617				41.2794
Parking Lot	0 / 0				0.0000
Quality Restaurant	9.71308 / 0.38749				55.0391
Regional Shopping Center	5.62951 / 2.15647				38.7627
Supermarket	5.4238 / 0.104842				30.3377
Total					173.5637

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				475.7197
Unmitigated				475.7197

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Health Club	142.5				71.6635
High Turnover (Sit Down Restaurant)	357				179.5358
Parking Lot	0				0.0000
Quality Restaurant	36.5				18.3559
Regional Shopping Center	99.75				50.1644
Supermarket	310.2				156.0001
Total					475.7197

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Health Club	142.5				71.6635
High Turnover (Sit Down Restaurant)	357				179.5358
Parking Lot	0				0.0000
Quality Restaurant	36.5				18.3559
Regional Shopping Center	99.75				50.1644
Supermarket	310.2				156.0001
Total					475.7197