

Newport Place-Existing Uses Operational Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	5.47	1000sqft	0.13	5,467.00	0
High Turnover (Sit Down Restaurant)	5.71	1000sqft	0.13	5,713.00	0
Quality Restaurant	10.17	1000sqft	0.23	10,174.00	0
Strip Mall	22.97	1000sqft	0.53	22,967.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2015
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	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 - Existing Site Uses

Construction Phase - operational emissions only

Off-road Equipment - operational emissions

Trips and VMT - no construction emissions

Grading -

Vehicle Trips - trip rates per traffic consultant

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblLandUse	LandUseSquareFeet	5,470.00	5,467.00
tblLandUse	LandUseSquareFeet	5,710.00	5,713.00
tblLandUse	LandUseSquareFeet	22,970.00	22,967.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2015
tblVehicleTrips	ST_TR	158.37	127.15
tblVehicleTrips	ST_TR	94.36	89.95
tblVehicleTrips	SU_TR	72.16	89.95

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.1594	5.0000e-005	4.6800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.7000e-003	9.7000e-003	3.0000e-005		0.0103
Energy	0.1266	1.1509	0.9667	6.9100e-003		0.0875	0.0875		0.0875	0.0875		1,381.0228	1,381.0228	0.0265	0.0253	1,389.4275
Mobile	8.4441	14.2768	71.7185	0.1438	10.0922	0.1870	10.2792	2.6924	0.1718	2.8642		12,869.1162	12,869.1162	0.5627		12,880.9336
Total	9.7301	15.4277	72.6899	0.1507	10.0922	0.2744	10.3667	2.6924	0.2593	2.9517		14,250.1487	14,250.1487	0.5892	0.0253	14,270.3714

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.1594	5.0000e-005	4.6800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.7000e-003	9.7000e-003	3.0000e-005		0.0103
Energy	0.1266	1.1509	0.9667	6.9100e-003		0.0875	0.0875		0.0875	0.0875		1,381.0228	1,381.0228	0.0265	0.0253	1,389.4275
Mobile	8.4441	14.2768	71.7185	0.1438	10.0922	0.1870	10.2792	2.6924	0.1718	2.8642		12,869.1162	12,869.1162	0.5627		12,880.9336
Total	9.7301	15.4277	72.6899	0.1507	10.0922	0.2744	10.3667	2.6924	0.2593	2.9517		14,250.1487	14,250.1487	0.5892	0.0253	14,270.3714

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Paving	Paving	1/1/2017	1/2/2017	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	0	6.00	125	0.42
Paving	Paving Equipment	0	8.00	130	0.36
Paving	Rollers	0	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	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
Paving	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Paving	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	0.0000	0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.0000		0.0000	0.0000	0.0000		0.0000

3.2 Paving - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Paving	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	0.0000	0.0000	0.0000		0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.0000		0.0000	0.0000	0.0000		0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.4441	14.2768	71.7185	0.1438	10.0922	0.1870	10.2792	2.6924	0.1718	2.8642		12,869.1162	12,869.1162	0.5627		12,880.9336
Unmitigated	8.4441	14.2768	71.7185	0.1438	10.0922	0.1870	10.2792	2.6924	0.1718	2.8642		12,869.1162	12,869.1162	0.5627		12,880.9336

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High Turnover (Sit Down Restaurant)	726.03	726.03	752.81	994,665	994,665
Medical Office Building	197.63	49.01	8.48	387,465	387,465
Quality Restaurant	915.15	915.15	915.15	1,302,838	1,302,838
Strip Mall	1,018.03	965.66	469.28	1,773,514	1,773,514
Total	2,856.84	2,655.85	2,145.71	4,458,482	4,458,482

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
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511437	0.057382	0.191336	0.153047	0.041226	0.005877	0.014979	0.013726	0.001416	0.002136	0.004703	0.000510	0.002224

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1266	1.1509	0.9667	6.9100e-003		0.0875	0.0875		0.0875	0.0875		1,381.0228	1,381.0228	0.0265	0.0253	1,389.4275
NaturalGas Unmitigated	0.1266	1.1509	0.9667	6.9100e-003		0.0875	0.0875		0.0875	0.0875		1,381.0228	1,381.0228	0.0265	0.0253	1,389.4275

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					
Medical Office Building	143.64	1.5500e-003	0.0141	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003		16.8988	16.8988	3.2000e-004	3.1000e-004	17.0016
Quality Restaurant	7342.84	0.0792	0.7199	0.6047	4.3200e-003		0.0547	0.0547		0.0547	0.0547		863.8636	863.8636	0.0166	0.0158	869.1209
Strip Mall	128.993	1.3900e-003	0.0127	0.0106	8.0000e-005		9.6000e-004	9.6000e-004		9.6000e-004	9.6000e-004		15.1756	15.1756	2.9000e-004	2.8000e-004	15.2680
High Turnover (Sit Down Restaurant)	4123.22	0.0445	0.4042	0.3396	2.4300e-003		0.0307	0.0307		0.0307	0.0307		485.0848	485.0848	9.3000e-003	8.8900e-003	488.0369
Total		0.1266	1.1509	0.9667	6.9100e-003		0.0875	0.0875		0.0875	0.0875		1,381.0228	1,381.0228	0.0265	0.0253	1,389.4275

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Medical Office Building	0.14364	1.5500e-003	0.0141	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003		16.8988	16.8988	3.2000e-004	3.1000e-004	17.0016
Quality Restaurant	7.34284	0.0792	0.7199	0.6047	4.3200e-003		0.0547	0.0547		0.0547	0.0547		863.8636	863.8636	0.0166	0.0158	869.1209
Strip Mall	0.128993	1.3900e-003	0.0127	0.0106	8.0000e-005		9.6000e-004	9.6000e-004		9.6000e-004	9.6000e-004		15.1756	15.1756	2.9000e-004	2.8000e-004	15.2680
High Turnover (Sit Down Restaurant)	4.12322	0.0445	0.4042	0.3396	2.4300e-003		0.0307	0.0307		0.0307	0.0307		485.0848	485.0848	9.3000e-003	8.8900e-003	488.0369
Total		0.1266	1.1509	0.9667	6.9100e-003		0.0875	0.0875		0.0875	0.0875		1,381.0228	1,381.0228	0.0265	0.0253	1,389.4275

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	1.1594	5.0000e-005	4.6800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.7000e-003	9.7000e-003	3.0000e-005		0.0103
Unmitigated	1.1594	5.0000e-005	4.6800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.7000e-003	9.7000e-003	3.0000e-005		0.0103

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2814					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8776					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6000e-004	5.0000e-005	4.6800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.7000e-003	9.7000e-003	3.0000e-005		0.0103
Total	1.1594	5.0000e-005	4.6800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.7000e-003	9.7000e-003	3.0000e-005		0.0103

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2814					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8776					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6000e-004	5.0000e-005	4.6800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.7000e-003	9.7000e-003	3.0000e-005		0.0103
Total	1.1594	5.0000e-005	4.6800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.7000e-003	9.7000e-003	3.0000e-005		0.0103

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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