

APPENDIX A
Air Quality/Greenhouse Gas Data

**Parenthetical CALEEMOD Assumptions
For: The Avalon
Date: January 2015**

CONSTRUCTION

Demolition (2015)

- 22 days.

Equipment:

<u>Quantity</u>	<u>Type</u>	<u>Hours of Daily Operation</u>
1	Concrete/Industrial Saw	8
1	Crushing/Processing Equip	8
1	Excavators	8
1	Rubber Tired Loader	8
1	Skid Steer Loader	8

Grading (2015)

- 42,200 cubic yards of export.
- 32 days.

Equipment:

<u>Quantity</u>	<u>Type</u>	<u>Hours of Daily Operation</u>
2	Excavators	8
1	Grader	8

Grading 2 (2015)

- 4,500 cubic yards of import.
- 34 days.

Equipment:

<u>Quantity</u>	<u>Type</u>	<u>Hours of Daily Operation</u>
1	Crawler Tractor	8
1	Other Construction Equipment	8
1	Scraper	8
1	Skid Steer Loader	8

Paving (2016)

- 11 days.

Equipment:

Quantity	Type	Hours of Daily Operation
1	Grader	8
3	Other Construction Equipment	8
1	Paver	8
1	Paving Equipment	8
2	Rollers	8
2	Signal Boards	8
1	Tractor/Loader/Backhoe	8

Building Construction (2016 - 2017)

- 335 days.

Equipment:

Quantity	Type	Hours of Daily Operation
1	Crane	7
1	Other Construction Equipment	8
4	Rough Terrain Forklifts	8
2	Skid Steer Loaders	8
2	Tractors/Loaders/Backhoes	7

Architectural Coating (2017)

- 89 days.

Equipment (CALEEMOD Default):

Quantity	Type	Hours of Daily Operation
1	Air Compressor	6

OPERATIONS

Existing Conditions

- 8-pump gasoline/service station;
- 1,072 square feet medical office building,
- 22,595 square feet regional shopping center.
- 1,230 daily trips.

Proposed Project

- 357 apartment dwelling units;
- 10,580 square feet amenities (leasing/lobby, fitness, club house);
- 15,000 square feet supermarket;
- 8,000 square feet pharmacy/drug store without drive thru;
- 5,000 square feet high turnover (sit down) restaurant;
- 4,310 square feet regional shopping center;
- 315,550 square feet enclosed parking structure.
- 5,448 daily trips (4,218 net increase daily trips).

The Avalon Existing Conditions South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	1.07	1000sqft	0.02	1,072.00	0
Gasoline/Service Station	8.00	Pump	0.06	2,474.00	0
Regional Shopping Center	22.59	1000sqft	0.52	22,595.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2017
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 Land Uses

Construction Phase - Existing Conditions Run, No Construction

Vehicle Trips - Per traffic study.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblLandUse	LandUseSquareFeet	1,070.00	1,072.00
tblLandUse	LandUseSquareFeet	1,129.40	2,474.00
tblLandUse	LandUseSquareFeet	22,590.00	22,595.00

tblLandUse	LotAcreage	0.03	0.06
tblProjectCharacteristics	OperationalYear	2014	2017
tblVehicleTrips	WD_TR	162.78	81.25
tblVehicleTrips	WD_TR	36.13	35.51
tblVehicleTrips	WD_TR	42.94	23.99

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					
2016	6.8000e-004	5.6500e-003	4.6600e-003	1.0000e-005	5.0000e-005	4.0000e-004	4.6000e-004	1.0000e-005	3.8000e-004	4.0000e-004	0.0000	0.5928	0.5928	1.1000e-004	0.0000	0.5951
Total	6.8000e-004	5.6500e-003	4.6600e-003	1.0000e-005	5.0000e-005	4.0000e-004	4.6000e-004	1.0000e-005	3.8000e-004	4.0000e-004	0.0000	0.5928	0.5928	1.1000e-004	0.0000	0.5951

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					
2016	6.8000e-004	5.6500e-003	4.6600e-003	1.0000e-005	5.0000e-005	4.0000e-004	4.6000e-004	1.0000e-005	3.8000e-004	4.0000e-004	0.0000	0.5928	0.5928	1.1000e-004	0.0000	0.5951
Total	6.8000e-004	5.6500e-003	4.6600e-003	1.0000e-005	5.0000e-005	4.0000e-004	4.6000e-004	1.0000e-005	3.8000e-004	4.0000e-004	0.0000	0.5928	0.5928	1.1000e-004	0.0000	0.5951

	ROG	NOx	CO	SO2	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

2.2 Overall Operational
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1248	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.3000e-004
Energy	5.2000e-004	4.7400e-003	3.9800e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	116.2352	116.2352	5.2000e-003	1.1500e-003	116.7013
Mobile	0.7408	1.4046	6.1793	0.0114	0.7494	0.0172	0.7666	0.2005	0.0158	0.2164	0.0000	879.6723	879.6723	0.0374	0.0000	880.4566
Waste						0.0000	0.0000		0.0000	0.0000	8.0364	0.0000	8.0364	0.4749	0.0000	18.0101
Water						0.0000	0.0000		0.0000	0.0000	0.6072	10.6802	11.2874	0.0629	1.5700e-003	13.0952
Total	0.8661	1.4094	6.1837	0.0114	0.7494	0.0176	0.7670	0.2005	0.0162	0.2167	8.6436	1,006.5885	1,015.2321	0.5803	2.7200e-003	1,028.2641

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1248	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.3000e-004
Energy	5.2000e-004	4.7400e-003	3.9800e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	116.2352	116.2352	5.2000e-003	1.1500e-003	116.7013
Mobile	0.7408	1.4046	6.1793	0.0114	0.7494	0.0172	0.7666	0.2005	0.0158	0.2164	0.0000	879.6723	879.6723	0.0374	0.0000	880.4566
Waste						0.0000	0.0000		0.0000	0.0000	8.0364	0.0000	8.0364	0.4749	0.0000	18.0101
Water						0.0000	0.0000		0.0000	0.0000	0.6072	10.6802	11.2874	0.0628	1.5700e-003	13.0943
Total	0.8661	1.4094	6.1837	0.0114	0.7494	0.0176	0.7670	0.2005	0.0162	0.2167	8.6436	1,006.5885	1,015.2321	0.5803	2.7200e-003	1,028.2631

	ROG	NOx	CO	SO2	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	Demolition	Demolition	1/1/2016	1/1/2016	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
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	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	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.6000e-004	5.6200e-003	4.3500e-003	1.0000e-005		4.0000e-004	4.0000e-004		3.8000e-004	3.8000e-004	0.0000	0.5414	0.5414	1.1000e-004	0.0000	0.5437
Total	6.6000e-004	5.6200e-003	4.3500e-003	1.0000e-005		4.0000e-004	4.0000e-004		3.8000e-004	3.8000e-004	0.0000	0.5414	0.5414	1.1000e-004	0.0000	0.5437

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	3.0000e-005	3.1000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0514	0.0514	0.0000	0.0000	0.0515
Total	2.0000e-005	3.0000e-005	3.1000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0514	0.0514	0.0000	0.0000	0.0515

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.6000e-004	5.6200e-003	4.3500e-003	1.0000e-005		4.0000e-004	4.0000e-004		3.8000e-004	3.8000e-004	0.0000	0.5414	0.5414	1.1000e-004	0.0000	0.5437
Total	6.6000e-004	5.6200e-003	4.3500e-003	1.0000e-005		4.0000e-004	4.0000e-004		3.8000e-004	3.8000e-004	0.0000	0.5414	0.5414	1.1000e-004	0.0000	0.5437

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	2.0000e-005	3.0000e-005	3.1000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0514	0.0514	0.0000	0.0000	0.0515
Total	2.0000e-005	3.0000e-005	3.1000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0514	0.0514	0.0000	0.0000	0.0515

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7408	1.4046	6.1793	0.0114	0.7494	0.0172	0.7666	0.2005	0.0158	0.2164	0.0000	879.6723	879.6723	0.0374	0.0000	880.4566
Unmitigated	0.7408	1.4046	6.1793	0.0114	0.7494	0.0172	0.7666	0.2005	0.0158	0.2164	0.0000	879.6723	879.6723	0.0374	0.0000	880.4566

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Gasoline/Service Station	650.00	1,302.24	1302.24	540,945	540,945
Medical Office Building	38.00	9.59	1.66	74,564	74,564
Regional Shopping Center	541.93	1,128.82	570.17	1,362,179	1,362,179
Total	1,229.93	2,440.65	1,874.07	1,977,688	1,977,688

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
Gasoline/Service Station	16.60	8.40	6.90	2.00	79.00	19.00	14	27	59
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513125	0.060112	0.180262	0.139218	0.042100	0.006630	0.016061	0.030999	0.001941	0.002506	0.004348	0.000594	0.002104

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	0.0000	111.0768	111.0768	5.1100e-003	1.0600e-003	111.5115
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	0.0000	111.0768	111.0768	5.1100e-003	1.0600e-003	111.5115
NaturalGas Mitigated	5.2000e-004	4.7400e-003	3.9800e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1584	5.1584	1.0000e-004	9.0000e-005	5.1898	
NaturalGas Unmitigated	5.2000e-004	4.7400e-003	3.9800e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1584	5.1584	1.0000e-004	9.0000e-005	5.1898	

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					
Regional Shopping Center	38411.5	2.1000e-004	1.8800e-003	1.5800e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	2.0498	2.0498	4.0000e-005	4.0000e-005	2.0623
Gasoline/Service Station	46535.9	2.5000e-004	2.2800e-003	1.9200e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.4833	2.4833	5.0000e-005	5.0000e-005	2.4985
Medical Office Building	11717	6.0000e-005	5.7000e-004	4.8000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.6253	0.6253	1.0000e-005	1.0000e-005	0.6291
Total		5.2000e-004	4.7300e-003	3.9800e-003	2.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	5.1584	5.1584	1.0000e-004	1.0000e-004	5.1898

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					
Regional Shopping Center	38411.5	2.1000e-004	1.8800e-003	1.5800e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	2.0498	2.0498	4.0000e-005	4.0000e-005	2.0623
Gasoline/Service Station	46535.9	2.5000e-004	2.2800e-003	1.9200e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.4833	2.4833	5.0000e-005	5.0000e-005	2.4985
Medical Office Building	11717	6.0000e-005	5.7000e-004	4.8000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.6253	0.6253	1.0000e-005	1.0000e-005	0.6291
Total		5.2000e-004	4.7300e-003	3.9800e-003	2.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	5.1584	5.1584	1.0000e-004	1.0000e-004	5.1898

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Gasoline/Service Station	29811.7	8.5311	3.9000e-004	8.0000e-005	8.5645
Medical Office Building	15576.2	4.4574	2.0000e-004	4.0000e-005	4.4748
Regional Shopping Center	342766	98.0883	4.5100e-003	9.3000e-004	98.4722
Total		111.0768	5.1000e-003	1.0500e-003	111.5115

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Gasoline/Service Station	29811.7	8.5311	3.9000e-004	8.0000e-005	8.5645
Medical Office Building	15576.2	4.4574	2.0000e-004	4.0000e-005	4.4748
Regional Shopping Center	342766	98.0883	4.5100e-003	9.3000e-004	98.4722
Total		111.0768	5.1000e-003	1.0500e-003	111.5115

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1248	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.3000e-004
Unmitigated	0.1248	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.3000e-004

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	0.0303					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0945					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.3000e-004
Total	0.1248	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.3000e-004

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	0.0303					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0945					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.3000e-004
Total	0.1248	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.3000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	11.2874	0.0628	1.5700e-003	13.0943
Unmitigated	11.2874	0.0629	1.5700e-003	13.0952

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Gasoline/Service Station	0.106255 / 0.0651241	0.6367	3.4900e-003	9.0000e-005	0.7371
Medical Office Building	0.134264 / 0.0255741	0.6242	4.4000e-003	1.1000e-004	0.7504
Regional Shopping Center	1.6733 / 1.02557	10.0265	0.0550	1.3800e-003	11.6078
Total		11.2874	0.0629	1.5800e-003	13.0952

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Gasoline/Service Station	0.106255 / 0.0651241	0.6367	3.4900e-003	9.0000e-005	0.7370
Medical Office Building	0.134264 / 0.0255741	0.6242	4.4000e-003	1.1000e-004	0.7503
Regional Shopping Center	1.6733 / 1.02557	10.0265	0.0550	1.3800e-003	11.6069
Total		11.2874	0.0628	1.5800e-003	13.0943

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Unmitigated	8.0364	0.4749	0.0000	18.0101
Mitigated	8.0364	0.4749	0.0000	18.0101

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Gasoline/Service Station	4.31	0.8749	0.0517	0.0000	1.9607
Medical Office Building	11.56	2.3466	0.1387	0.0000	5.2588
Regional Shopping Center	23.72	4.8150	0.2846	0.0000	10.7906
Total		8.0364	0.4749	0.0000	18.0101

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Gasoline/Service Station	4.31	0.8749	0.0517	0.0000	1.9607
Medical Office Building	11.56	2.3466	0.1387	0.0000	5.2588
Regional Shopping Center	23.72	4.8150	0.2846	0.0000	10.7906
Total		8.0364	0.4749	0.0000	18.0101

9.0 Operational Offroad

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

The Avalon Existing Conditions South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	1.07	1000sqft	0.02	1,072.00	0
Gasoline/Service Station	8.00	Pump	0.06	2,474.00	0
Regional Shopping Center	22.59	1000sqft	0.52	22,595.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2017
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 Land Uses

Construction Phase - Existing Conditions Run, No Construction

Vehicle Trips - Per traffic study.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblLandUse	LandUseSquareFeet	1,070.00	1,072.00
tblLandUse	LandUseSquareFeet	1,129.40	2,474.00
tblLandUse	LandUseSquareFeet	22,590.00	22,595.00

tblLandUse	LotAcreage	0.03	0.06
tblProjectCharacteristics	OperationalYear	2014	2017
tblVehicleTrips	WD_TR	162.78	81.25
tblVehicleTrips	WD_TR	36.13	35.51
tblVehicleTrips	WD_TR	42.94	23.99

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	1.3548	11.2956	9.3028	0.0134	0.1118	0.8048	0.9166	0.0296	0.7682	0.7979	0.0000	1,305.1801	1,305.1801	0.2447	0.0000	1,310.3193
Total	1.3548	11.2956	9.3028	0.0134	0.1118	0.8048	0.9166	0.0296	0.7682	0.7979	0.0000	1,305.1801	1,305.1801	0.2447	0.0000	1,310.3193

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	1.3548	11.2956	9.3028	0.0134	0.1118	0.8048	0.9166	0.0296	0.7682	0.7979	0.0000	1,305.1801	1,305.1801	0.2447	0.0000	1,310.3193
Total	1.3548	11.2956	9.3028	0.0134	0.1118	0.8048	0.9166	0.0296	0.7682	0.7979	0.0000	1,305.1801	1,305.1801	0.2447	0.0000	1,310.3193

	ROG	NOx	CO	SO2	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

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	0.6839	3.0000e-005	3.2900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9300e-003	6.9300e-003	2.0000e-005		7.3300e-003
Energy	2.8600e-003	0.0260	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		31.1569	31.1569	6.0000e-004	5.7000e-004	31.3466
Mobile	7.2156	12.8359	57.2195	0.1056	7.1724	0.1619	7.3343	1.9164	0.1490	2.0654		8,989.7837	8,989.7837	0.3853		8,997.8747
Total	7.9024	12.8619	57.2446	0.1057	7.1724	0.1639	7.3363	1.9164	0.1510	2.0673		9,020.9476	9,020.9476	0.3859	5.7000e-004	9,029.2286

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	0.6839	3.0000e-005	3.2900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9300e-003	6.9300e-003	2.0000e-005		7.3300e-003
Energy	2.8600e-003	0.0260	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		31.1569	31.1569	6.0000e-004	5.7000e-004	31.3466
Mobile	7.2156	12.8359	57.2195	0.1056	7.1724	0.1619	7.3343	1.9164	0.1490	2.0654		8,989.7837	8,989.7837	0.3853		8,997.8747
Total	7.9024	12.8619	57.2446	0.1057	7.1724	0.1639	7.3363	1.9164	0.1510	2.0673		9,020.9476	9,020.9476	0.3859	5.7000e-004	9,029.2286

	ROG	NOx	CO	SO2	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	Demolition	Demolition	1/1/2016	1/1/2016	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
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	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	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
Total	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217

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	0.0426	0.0572	0.5980	1.3300e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		111.5695	111.5695	6.1000e-003		111.6976
Total	0.0426	0.0572	0.5980	1.3300e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		111.5695	111.5695	6.1000e-003		111.6976

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	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
Total	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217

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	0.0426	0.0572	0.5980	1.3300e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		111.5695	111.5695	6.1000e-003		111.6976
Total	0.0426	0.0572	0.5980	1.3300e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		111.5695	111.5695	6.1000e-003		111.6976

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	7.2156	12.8359	57.2195	0.1056	7.1724	0.1619	7.3343	1.9164	0.1490	2.0654		8,989.7837	8,989.7837	0.3853		8,997.8747
Unmitigated	7.2156	12.8359	57.2195	0.1056	7.1724	0.1619	7.3343	1.9164	0.1490	2.0654		8,989.7837	8,989.7837	0.3853		8,997.8747

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Gasoline/Service Station	650.00	1,302.24	1302.24	540,945	540,945
Medical Office Building	38.00	9.59	1.66	74,564	74,564
Regional Shopping Center	541.93	1,128.82	570.17	1,362,179	1,362,179
Total	1,229.93	2,440.65	1,874.07	1,977,688	1,977,688

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
Gasoline/Service Station	16.60	8.40	6.90	2.00	79.00	19.00	14	27	59
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513125	0.060112	0.180262	0.139218	0.042100	0.006630	0.016061	0.030999	0.001941	0.002506	0.004348	0.000594	0.002104

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	2.8600e-003	0.0260	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		31.1569	31.1569	6.0000e-004	5.7000e-004	31.3466
NaturalGas Unmitigated	2.8600e-003	0.0260	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		31.1569	31.1569	6.0000e-004	5.7000e-004	31.3466

5.2 Energy by Land Use - Natural Gas

Unmitigated

	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					
Regional Shopping Center	105.237	1.1300e-003	0.0103	8.6700e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004		12.3808	12.3808	2.4000e-004	2.3000e-004	12.4562
Gasoline/Service Station	127.496	1.3700e-003	0.0125	0.0105	7.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004		14.9995	14.9995	2.9000e-004	2.7000e-004	15.0908
Medical Office Building	32.1013	3.5000e-004	3.1500e-003	2.6400e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		3.7766	3.7766	7.0000e-005	7.0000e-005	3.7996
Total		2.8500e-003	0.0260	0.0218	1.5000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		31.1569	31.1569	6.0000e-004	5.7000e-004	31.3466

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					
Regional Shopping Center	0.105237	1.1300e-003	0.0103	8.6700e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004		12.3808	12.3808	2.4000e-004	2.3000e-004	12.4562
Gasoline/Service Station	0.127496	1.3700e-003	0.0125	0.0105	7.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004		14.9995	14.9995	2.9000e-004	2.7000e-004	15.0908
Medical Office Building	0.0321013	3.5000e-004	3.1500e-003	2.6400e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		3.7766	3.7766	7.0000e-005	7.0000e-005	3.7996
Total		2.8500e-003	0.0260	0.0218	1.5000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		31.1569	31.1569	6.0000e-004	5.7000e-004	31.3466

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	0.6839	3.0000e-005	3.2900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9300e-003	6.9300e-003	2.0000e-005		7.3300e-003
Unmitigated	0.6839	3.0000e-005	3.2900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9300e-003	6.9300e-003	2.0000e-005		7.3300e-003

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	0.1660					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5176					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.2000e-004	3.0000e-005	3.2900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9300e-003	6.9300e-003	2.0000e-005		7.3300e-003
Total	0.6839	3.0000e-005	3.2900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9300e-003	6.9300e-003	2.0000e-005		7.3300e-003

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	0.1660					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5176					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.2000e-004	3.0000e-005	3.2900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9300e-003	6.9300e-003	2.0000e-005		7.3300e-003
Total	0.6839	3.0000e-005	3.2900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9300e-003	6.9300e-003	2.0000e-005		7.3300e-003

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

The Avalon Existing Conditions South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	1.07	1000sqft	0.02	1,072.00	0
Gasoline/Service Station	8.00	Pump	0.06	2,474.00	0
Regional Shopping Center	22.59	1000sqft	0.52	22,595.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2017
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 Land Uses

Construction Phase - Existing Conditions Run, No Construction

Vehicle Trips - Per traffic study.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblLandUse	LandUseSquareFeet	1,070.00	1,072.00
tblLandUse	LandUseSquareFeet	1,129.40	2,474.00
tblLandUse	LandUseSquareFeet	22,590.00	22,595.00

tblLandUse	LotAcreage	0.03	0.06
tblProjectCharacteristics	OperationalYear	2014	2017
tblVehicleTrips	WD_TR	162.78	81.25
tblVehicleTrips	WD_TR	36.13	35.51
tblVehicleTrips	WD_TR	42.94	23.99

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	1.3539	11.2905	9.3534	0.0135	0.1118	0.8048	0.9166	0.0296	0.7682	0.7979	0.0000	1,312.5689	1,312.5689	0.2447	0.0000	1,317.7080
Total	1.3539	11.2905	9.3534	0.0135	0.1118	0.8048	0.9166	0.0296	0.7682	0.7979	0.0000	1,312.5689	1,312.5689	0.2447	0.0000	1,317.7080

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	1.3539	11.2905	9.3534	0.0135	0.1118	0.8048	0.9166	0.0296	0.7682	0.7979	0.0000	1,312.5689	1,312.5689	0.2447	0.0000	1,317.7080
Total	1.3539	11.2905	9.3534	0.0135	0.1118	0.8048	0.9166	0.0296	0.7682	0.7979	0.0000	1,312.5689	1,312.5689	0.2447	0.0000	1,317.7080

	ROG	NOx	CO	SO2	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

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	0.6839	3.0000e-005	3.2900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9300e-003	6.9300e-003	2.0000e-005		7.3300e-003
Energy	2.8600e-003	0.0260	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		31.1569	31.1569	6.0000e-004	5.7000e-004	31.3466
Mobile	6.8837	12.2892	54.3326	0.1110	7.1724	0.1605	7.3329	1.9164	0.1477	2.0641		9,442.7825	9,442.7825	0.3846		9,450.8594
Total	7.5704	12.3152	54.3577	0.1112	7.1724	0.1625	7.3349	1.9164	0.1497	2.0661		9,473.9464	9,473.9464	0.3852	5.7000e-004	9,482.2133

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	0.6839	3.0000e-005	3.2900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9300e-003	6.9300e-003	2.0000e-005		7.3300e-003
Energy	2.8600e-003	0.0260	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		31.1569	31.1569	6.0000e-004	5.7000e-004	31.3466
Mobile	6.8837	12.2892	54.3326	0.1110	7.1724	0.1605	7.3329	1.9164	0.1477	2.0641		9,442.7825	9,442.7825	0.3846		9,450.8594
Total	7.5704	12.3152	54.3577	0.1112	7.1724	0.1625	7.3349	1.9164	0.1497	2.0661		9,473.9464	9,473.9464	0.3852	5.7000e-004	9,482.2133

	ROG	NOx	CO	SO2	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	Demolition	Demolition	1/1/2016	1/1/2016	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
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	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	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
Total	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217

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	0.0416	0.0521	0.6486	1.4200e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		118.9583	118.9583	6.1000e-003		119.0863
Total	0.0416	0.0521	0.6486	1.4200e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		118.9583	118.9583	6.1000e-003		119.0863

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	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
Total	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217

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	0.0416	0.0521	0.6486	1.4200e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		118.9583	118.9583	6.1000e-003		119.0863
Total	0.0416	0.0521	0.6486	1.4200e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		118.9583	118.9583	6.1000e-003		119.0863

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	6.8837	12.2892	54.3326	0.1110	7.1724	0.1605	7.3329	1.9164	0.1477	2.0641		9,442.7825	9,442.7825	0.3846		9,450.8594
Unmitigated	6.8837	12.2892	54.3326	0.1110	7.1724	0.1605	7.3329	1.9164	0.1477	2.0641		9,442.7825	9,442.7825	0.3846		9,450.8594

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Gasoline/Service Station	650.00	1,302.24	1302.24	540,945	540,945
Medical Office Building	38.00	9.59	1.66	74,564	74,564
Regional Shopping Center	541.93	1,128.82	570.17	1,362,179	1,362,179
Total	1,229.93	2,440.65	1,874.07	1,977,688	1,977,688

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
Gasoline/Service Station	16.60	8.40	6.90	2.00	79.00	19.00	14	27	59
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513125	0.060112	0.180262	0.139218	0.042100	0.006630	0.016061	0.030999	0.001941	0.002506	0.004348	0.000594	0.002104

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	2.8600e-003	0.0260	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		31.1569	31.1569	6.0000e-004	5.7000e-004	31.3466
NaturalGas Unmitigated	2.8600e-003	0.0260	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		31.1569	31.1569	6.0000e-004	5.7000e-004	31.3466

5.2 Energy by Land Use - Natural Gas

Unmitigated

	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					
Regional Shopping Center	105.237	1.1300e-003	0.0103	8.6700e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004		12.3808	12.3808	2.4000e-004	2.3000e-004	12.4562
Gasoline/Service Station	127.496	1.3700e-003	0.0125	0.0105	7.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004		14.9995	14.9995	2.9000e-004	2.7000e-004	15.0908
Medical Office Building	32.1013	3.5000e-004	3.1500e-003	2.6400e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		3.7766	3.7766	7.0000e-005	7.0000e-005	3.7996
Total		2.8500e-003	0.0260	0.0218	1.5000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		31.1569	31.1569	6.0000e-004	5.7000e-004	31.3466

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					
Regional Shopping Center	0.105237	1.1300e-003	0.0103	8.6700e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004		12.3808	12.3808	2.4000e-004	2.3000e-004	12.4562
Gasoline/Service Station	0.127496	1.3700e-003	0.0125	0.0105	7.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004		14.9995	14.9995	2.9000e-004	2.7000e-004	15.0908
Medical Office Building	0.0321013	3.5000e-004	3.1500e-003	2.6400e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		3.7766	3.7766	7.0000e-005	7.0000e-005	3.7996
Total		2.8500e-003	0.0260	0.0218	1.5000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		31.1569	31.1569	6.0000e-004	5.7000e-004	31.3466

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	0.6839	3.0000e-005	3.2900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9300e-003	6.9300e-003	2.0000e-005		7.3300e-003
Unmitigated	0.6839	3.0000e-005	3.2900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9300e-003	6.9300e-003	2.0000e-005		7.3300e-003

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	0.1660					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5176					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.2000e-004	3.0000e-005	3.2900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9300e-003	6.9300e-003	2.0000e-005		7.3300e-003
Total	0.6839	3.0000e-005	3.2900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9300e-003	6.9300e-003	2.0000e-005		7.3300e-003

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	0.1660					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5176					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.2000e-004	3.0000e-005	3.2900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9300e-003	6.9300e-003	2.0000e-005		7.3300e-003
Total	0.6839	3.0000e-005	3.2900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9300e-003	6.9300e-003	2.0000e-005		7.3300e-003

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

The Avalon
South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	10.58	1000sqft	0.24	10,580.00	0
Pharmacy/Drugstore w/o Drive Thru	8.00	1000sqft	0.18	8,000.00	0
Enclosed Parking Structure	315.55	1000sqft	7.24	315,550.00	0
High Turnover (Sit Down Restaurant)	5.00	1000sqft	0.11	5,000.00	0
Apartments Mid Rise	357.00	Dwelling Unit	7.50	326,752.00	1021
Regional Shopping Center	4.31	1000sqft	0.10	4,310.00	0
Supermarket	15.00	1000sqft	0.34	15,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2017
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 - Proposed Land Uses
- Construction Phase - Proposed Construction Schedule
- Off-road Equipment - Proposed Equipment
- Off-road Equipment - Proposed Equipment

Off-road Equipment - Proposed Equipment

Off-road Equipment - Proposed Equipment

Off-road Equipment - Proposed Equipment

Off-road Equipment -

Grading - Proposed Earthwork

Acres Disturbed split among two phases

Demolition -

Trips and VMT - Proposed distance from project site to haul/dump stie = 25 miles

Proposed distance across project site = 0.2 mile

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

Waste Mitigation -

Architectural Coating - Low VOC Paint

Vehicle Trips - Per Traffic Study

Mobile Commute Mitigation - Proposed TDM measures

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblCommuteMitigation	EmployeeVanpoolPercentModeShare	2	100
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstructionPhase	NumDays	20.00	89.00
tblConstructionPhase	NumDays	300.00	335.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	30.00	34.00
tblConstructionPhase	NumDays	20.00	11.00
tblConstructionPhase	NumDays	30.00	32.00
tblConstructionPhase	PhaseEndDate	4/28/2017	4/30/2017
tblConstructionPhase	PhaseEndDate	11/13/2015	11/15/2015

tblConstructionPhase	PhaseStartDate	1/16/2016	1/17/2016
tblGrading	AcresOfGrading	51.00	2.50
tblGrading	AcresOfGrading	51.00	0.00
tblGrading	AcresOfGrading	16.00	3.00
tblGrading	MaterialExported	0.00	42,200.00
tblGrading	MaterialImported	0.00	4,500.00
tblGrading	MaterialMoistureContentBulldozing	7.90	0.00
tblGrading	MaterialMoistureContentTruckLoading	12.00	0.00
tblGrading	MaterialSiltContent	6.90	0.00
tblGrading	MeanVehicleSpeed	7.10	0.00
tblLandUse	LandUseSquareFeet	357,000.00	326,752.00
tblLandUse	LotAcreage	9.39	7.50
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Signal Boards
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes

tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripLength	20.00	0.20
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripNumber	445.00	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripNumber	10.00	0.00

tblVehicleTrips	WD_TR	6.59	6.65
tblVehicleTrips	WD_TR	68.93	0.00
tblVehicleTrips	WD_TR	127.15	127.20
tblVehicleTrips	WD_TR	90.06	90.00
tblVehicleTrips	WD_TR	42.94	42.69
tblVehicleTrips	WD_TR	102.24	102.27

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2015	0.1677	2.1722	1.3425	3.2400e-003	0.0982	0.0764	0.1747	0.0214	0.0711	0.0925	0.0000	300.1332	300.1332	0.0300	0.0000	300.7634
2016	0.7082	5.9617	7.5909	0.0140	0.6303	0.2788	0.9092	0.1689	0.2565	0.4254	0.0000	1,186.5874	1,186.5874	0.1584	0.0000	1,189.9137
2017	3.1782	1.8814	2.6620	5.2900e-003	0.2533	0.0882	0.3415	0.0678	0.0817	0.1495	0.0000	432.1711	432.1711	0.0539	0.0000	433.3027
Total	4.0541	10.0154	11.5954	0.0225	0.9819	0.4434	1.4253	0.2581	0.4094	0.6675	0.0000	1,918.8917	1,918.8917	0.2423	0.0000	1,923.9798

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	4.3046	0.0731	5.9664	3.7600e-003		0.3611	0.3611		0.3610	0.3610	37.9202	78.8924	116.8126	0.1192	2.5700e-003	120.1125
Energy	0.0220	0.1926	0.1153	1.2000e-003		0.0152	0.0152		0.0152	0.0152	0.0000	1,497.2706	1,497.2706	0.0630	0.0162	1,503.6026
Mobile	3.1904	8.0470	32.2259	0.0718	4.8466	0.1055	4.9521	1.2969	0.0971	1.3940	0.0000	5,547.1095	5,547.1095	0.2237	0.0000	5,551.8067
Waste						0.0000	0.0000		0.0000	0.0000	70.3871	0.0000	70.3871	4.1598	0.0000	157.7421
Water						0.0000	0.0000		0.0000	0.0000	9.3943	163.2640	172.6583	0.9724	0.0243	200.6226
Total	7.5170	8.3127	38.3076	0.0767	4.8466	0.4818	5.3284	1.2969	0.4733	1.7702	117.7016	7,286.5365	7,404.2381	5.5380	0.0431	7,533.8865

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.1431	0.0434	3.7238	1.9000e-004		0.0256	0.0256		0.0255	0.0255	0.0000	83.1788	83.1788	7.5400e-003	1.4100e-003	83.7757
Energy	0.0220	0.1926	0.1153	1.2000e-003		0.0152	0.0152		0.0152	0.0152	0.0000	1,497.2706	1,497.2706	0.0630	0.0162	1,503.6026
Mobile	3.0474	6.9224	28.6351	0.0599	4.0102	0.0887	4.0990	1.0731	0.0817	1.1548	0.0000	4,626.0013	4,626.0013	0.1896	0.0000	4,629.9835
Waste						0.0000	0.0000		0.0000	0.0000	35.1936	0.0000	35.1936	2.0799	0.0000	78.8710
Water						0.0000	0.0000		0.0000	0.0000	7.5155	137.9681	145.4835	0.7781	0.0195	167.8717
Total	6.2125	7.1584	32.4742	0.0613	4.0102	0.1295	4.1398	1.0731	0.1224	1.1955	42.7090	6,344.4188	6,387.1278	3.1182	0.0371	6,464.1045

	ROG	NOx	CO	SO2	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	17.35	13.89	15.23	20.16	17.26	73.12	22.31	17.26	74.14	32.47	63.71	12.93	13.74	43.69	13.91	14.20

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	9/1/2015	9/30/2015	5	22	
2	Grading	Grading	10/1/2015	11/15/2015	5	32	
3	Grading 2	Grading	11/16/2015	12/31/2015	5	34	
4	Paving	Paving	1/1/2016	1/15/2016	5	11	
5	Building Construction	Building Construction	1/17/2016	4/30/2017	5	335	
6	Architectural Coating	Architectural Coating	5/1/2017	8/31/2017	5	89	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 661,673; Residential Outdoor: 220,558; Non-Residential Indoor: 537,660; Non-Residential Outdoor: 179,220

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	1	8.00	162	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading 2	Excavators	0	8.00	162	0.38
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Paving	Pavers	1	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40
Grading 2	Rubber Tired Dozers	0	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Grading 2	Graders	0	8.00	174	0.41
Grading 2	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Paving	Paving Equipment	1	8.00	130	0.36
Grading 2	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading 2	Rubber Tired Dozers	0	8.00	255	0.40
Grading 2	Scrapers	1	8.00	361	0.48
Building Construction	Welders	0	8.00	46	0.45
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	0	8.00	255	0.40
Grading	Scrapers	0	8.00	361	0.48

Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Rubber Tired Loaders	1	8.00	199	0.36
Demolition	Skid Steer Loaders	1	8.00	64	0.37
Grading 2	Crawler Tractors	1	8.00	208	0.43
Grading 2	Other Construction Equipment	1	8.00	171	0.42
Grading 2	Skid Steer Loaders	1	8.00	64	0.37
Paving	Graders	1	8.00	174	0.41
Paving	Other Construction Equipment	3	8.00	171	0.42
Paving	Signal Boards	2	8.00	6	0.82
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Other Construction Equipment	1	8.00	171	0.42
Building Construction	Rough Terrain Forklifts	4	8.00	100	0.40
Building Construction	Skid Steer Loaders	2	8.00	64	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	5	13.00	0.00	371.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Grading 2	4	10.00	0.00	445.00	14.70	6.90	0.20	LD_Mix	HDT_Mix	HHDT
Grading 2	4	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	404.00	97.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	11	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	81.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	4,173.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0401	0.0000	0.0401	6.0800e-003	0.0000	6.0800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0297	0.2657	0.1653	2.9000e-004		0.0160	0.0160		0.0155	0.0155	0.0000	26.6618	26.6618	5.6800e-003	0.0000	26.7810
Total	0.0297	0.2657	0.1653	2.9000e-004	0.0401	0.0160	0.0561	6.0800e-003	0.0155	0.0216	0.0000	26.6618	26.6618	5.6800e-003	0.0000	26.7810

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.3400e-003	0.0756	0.0475	1.7000e-004	3.9700e-003	1.2400e-003	5.2100e-003	1.0900e-003	1.1400e-003	2.2300e-003	0.0000	15.7377	15.7377	1.2000e-004	0.0000	15.7403
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	9.3000e-004	9.7000e-003	2.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.5225	1.5225	9.0000e-005	0.0000	1.5243
Total	4.9800e-003	0.0766	0.0572	1.9000e-004	5.5400e-003	1.2500e-003	6.7900e-003	1.5100e-003	1.1500e-003	2.6600e-003	0.0000	17.2603	17.2603	2.1000e-004	0.0000	17.2646

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0149	0.0000	0.0149	2.2500e-003	0.0000	2.2500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0297	0.2657	0.1653	2.9000e-004		0.0160	0.0160		0.0155	0.0155	0.0000	26.6618	26.6618	5.6800e-003	0.0000	26.7810
Total	0.0297	0.2657	0.1653	2.9000e-004	0.0149	0.0160	0.0309	2.2500e-003	0.0155	0.0178	0.0000	26.6618	26.6618	5.6800e-003	0.0000	26.7810

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	4.3400e-003	0.0756	0.0475	1.7000e-004	3.1900e-003	1.2400e-003	4.4300e-003	9.0000e-004	1.1400e-003	2.0400e-003	0.0000	15.7377	15.7377	1.2000e-004	0.0000	15.7403
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	9.3000e-004	9.7000e-003	2.0000e-005	1.2200e-003	1.0000e-005	1.2300e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.5225	1.5225	9.0000e-005	0.0000	1.5243
Total	4.9800e-003	0.0766	0.0572	1.9000e-004	4.4100e-003	1.2500e-003	5.6600e-003	1.2300e-003	1.1500e-003	2.3800e-003	0.0000	17.2603	17.2603	2.1000e-004	0.0000	17.2646

3.3 Grading - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.5900e-003	0.0000	1.5900e-003	1.7000e-004	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0303	0.3296	0.1897	2.7000e-004		0.0175	0.0175		0.0161	0.0161	0.0000	25.6650	25.6650	7.6600e-003	0.0000	25.8259
Total	0.0303	0.3296	0.1897	2.7000e-004	1.5900e-003	0.0175	0.0191	1.7000e-004	0.0161	0.0162	0.0000	25.6650	25.6650	7.6600e-003	0.0000	25.8259

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0488	0.8508	0.5348	1.9200e-003	0.0447	0.0139	0.0586	0.0123	0.0128	0.0251	0.0000	177.0178	177.0178	1.3900e-003	0.0000	177.0469
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	8.4000e-004	8.6800e-003	2.0000e-005	1.4000e-003	1.0000e-005	1.4200e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.3628	1.3628	8.0000e-005	0.0000	1.3644
Total	0.0494	0.8516	0.5434	1.9400e-003	0.0461	0.0140	0.0601	0.0126	0.0128	0.0255	0.0000	178.3806	178.3806	1.4700e-003	0.0000	178.4113

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.9000e-004	0.0000	5.9000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0303	0.3296	0.1897	2.7000e-004		0.0175	0.0175		0.0161	0.0161	0.0000	25.6650	25.6650	7.6600e-003	0.0000	25.8259
Total	0.0303	0.3296	0.1897	2.7000e-004	5.9000e-004	0.0175	0.0181	6.0000e-005	0.0161	0.0161	0.0000	25.6650	25.6650	7.6600e-003	0.0000	25.8259

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	0.0488	0.8508	0.5348	1.9200e-003	0.0359	0.0139	0.0499	0.0101	0.0128	0.0229	0.0000	177.0178	177.0178	1.3900e-003	0.0000	177.0469
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	8.4000e-004	8.6800e-003	2.0000e-005	1.0900e-003	1.0000e-005	1.1000e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.3628	1.3628	8.0000e-005	0.0000	1.3644
Total	0.0494	0.8516	0.5434	1.9400e-003	0.0370	0.0140	0.0510	0.0104	0.0128	0.0232	0.0000	178.3806	178.3806	1.4700e-003	0.0000	178.4113

3.4 Grading 2 - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3300e-003	0.0000	1.3300e-003	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0507	0.6421	0.3420	5.2000e-004		0.0277	0.0277		0.0255	0.0255	0.0000	49.8513	49.8513	0.0149	0.0000	50.1638
Total	0.0507	0.6421	0.3420	5.2000e-004	1.3300e-003	0.0277	0.0290	1.4000e-004	0.0255	0.0256	0.0000	49.8513	49.8513	0.0149	0.0000	50.1638

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8200e-003	5.5600e-003	0.0333	1.0000e-005	7.0000e-005	3.0000e-005	1.0000e-004	2.0000e-005	3.0000e-005	5.0000e-005	0.0000	0.5043	0.5043	1.0000e-005	0.0000	0.5046
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.6000e-004	1.1100e-003	0.0115	2.0000e-005	3.4800e-003	2.0000e-005	3.5000e-003	8.9000e-004	2.0000e-005	9.1000e-004	0.0000	1.8100	1.8100	1.0000e-004	0.0000	1.8121
Total	2.5800e-003	6.6700e-003	0.0448	3.0000e-005	3.5500e-003	5.0000e-005	3.6000e-003	9.1000e-004	5.0000e-005	9.6000e-004	0.0000	2.3143	2.3143	1.1000e-004	0.0000	2.3167

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.9000e-004	0.0000	4.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0507	0.6421	0.3420	5.2000e-004		0.0277	0.0277		0.0255	0.0255	0.0000	49.8512	49.8512	0.0149	0.0000	50.1638
Total	0.0507	0.6421	0.3420	5.2000e-004	4.9000e-004	0.0277	0.0282	5.0000e-005	0.0255	0.0256	0.0000	49.8512	49.8512	0.0149	0.0000	50.1638

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	1.8200e-003	5.5600e-003	0.0333	1.0000e-005	6.0000e-005	3.0000e-005	9.0000e-005	2.0000e-005	3.0000e-005	4.0000e-005	0.0000	0.5043	0.5043	1.0000e-005	0.0000	0.5046
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.6000e-004	1.1100e-003	0.0115	2.0000e-005	2.6400e-003	2.0000e-005	2.6600e-003	6.9000e-004	2.0000e-005	7.0000e-004	0.0000	1.8100	1.8100	1.0000e-004	0.0000	1.8121
Total	2.5800e-003	6.6700e-003	0.0448	3.0000e-005	2.7000e-003	5.0000e-005	2.7500e-003	7.1000e-004	5.0000e-005	7.4000e-004	0.0000	2.3143	2.3143	1.1000e-004	0.0000	2.3167

3.5 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0265	0.2776	0.1648	2.3000e-004		0.0158	0.0158		0.0145	0.0145	0.0000	21.9196	21.9196	6.5100e-003	0.0000	22.0564
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0265	0.2776	0.1648	2.3000e-004		0.0158	0.0158		0.0145	0.0145	0.0000	21.9196	21.9196	6.5100e-003	0.0000	22.0564

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	9.1000e-004	9.4300e-003	2.0000e-005	1.6900e-003	1.0000e-005	1.7000e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.5830	1.5830	9.0000e-005	0.0000	1.5848
Total	6.2000e-004	9.1000e-004	9.4300e-003	2.0000e-005	1.6900e-003	1.0000e-005	1.7000e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.5830	1.5830	9.0000e-005	0.0000	1.5848

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0265	0.2776	0.1648	2.3000e-004		0.0158	0.0158		0.0145	0.0145	0.0000	21.9196	21.9196	6.5100e-003	0.0000	22.0564
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0265	0.2776	0.1648	2.3000e-004		0.0158	0.0158		0.0145	0.0145	0.0000	21.9196	21.9196	6.5100e-003	0.0000	22.0564

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	9.1000e-004	9.4300e-003	2.0000e-005	1.3100e-003	1.0000e-005	1.3200e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.5830	1.5830	9.0000e-005	0.0000	1.5848
Total	6.2000e-004	9.1000e-004	9.4300e-003	2.0000e-005	1.3100e-003	1.0000e-005	1.3200e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.5830	1.5830	9.0000e-005	0.0000	1.5848

3.6 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3707	4.2851	2.9106	4.2900e-003		0.2412	0.2412		0.2219	0.2219	0.0000	404.8318	404.8318	0.1221	0.0000	407.3962
Total	0.3707	4.2851	2.9106	4.2900e-003		0.2412	0.2412		0.2219	0.2219	0.0000	404.8318	404.8318	0.1221	0.0000	407.3962

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1079	1.1008	1.4131	2.6300e-003	0.0746	0.0172	0.0918	0.0213	0.0158	0.0371	0.0000	239.1646	239.1646	1.7400e-003	0.0000	239.2012
Worker	0.2025	0.2973	3.0931	6.8100e-003	0.5541	4.7200e-003	0.5588	0.1471	4.3400e-003	0.1515	0.0000	519.0884	519.0884	0.0279	0.0000	519.6751
Total	0.3104	1.3981	4.5062	9.4400e-003	0.6287	0.0219	0.6505	0.1684	0.0201	0.1886	0.0000	758.2530	758.2530	0.0297	0.0000	758.8763

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3707	4.2851	2.9106	4.2900e-003		0.2412	0.2412		0.2219	0.2219	0.0000	404.8314	404.8314	0.1221	0.0000	407.3957
Total	0.3707	4.2851	2.9106	4.2900e-003		0.2412	0.2412		0.2219	0.2219	0.0000	404.8314	404.8314	0.1221	0.0000	407.3957

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	0.1079	1.1008	1.4131	2.6300e-003	0.0605	0.0172	0.0777	0.0178	0.0158	0.0336	0.0000	239.1646	239.1646	1.7400e-003	0.0000	239.2012
Worker	0.2025	0.2973	3.0931	6.8100e-003	0.4292	4.7200e-003	0.4339	0.1165	4.3400e-003	0.1208	0.0000	519.0884	519.0884	0.0279	0.0000	519.6751
Total	0.3104	1.3981	4.5062	9.4400e-003	0.4897	0.0219	0.5116	0.1343	0.0201	0.1545	0.0000	758.2530	758.2530	0.0297	0.0000	758.8763

3.6 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1160	1.3331	0.9755	1.4600e-003		0.0734	0.0734		0.0675	0.0675	0.0000	135.4669	135.4669	0.0415	0.0000	136.3385
Total	0.1160	1.3331	0.9755	1.4600e-003		0.0734	0.0734		0.0675	0.0675	0.0000	135.4669	135.4669	0.0415	0.0000	136.3385

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0335	0.3406	0.4553	8.9000e-004	0.0254	5.2100e-003	0.0306	7.2400e-003	4.7900e-003	0.0120	0.0000	79.9995	79.9995	5.7000e-004	0.0000	80.0115
Worker	0.0617	0.0913	0.9489	2.3100e-003	0.1884	1.5400e-003	0.1899	0.0500	1.4200e-003	0.0515	0.0000	169.7146	169.7146	8.7700e-003	0.0000	169.8987
Total	0.0952	0.4319	1.4042	3.2000e-003	0.2138	6.7500e-003	0.2205	0.0573	6.2100e-003	0.0635	0.0000	249.7141	249.7141	9.3400e-003	0.0000	249.9102

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1160	1.3331	0.9755	1.4600e-003		0.0734	0.0734		0.0675	0.0675	0.0000	135.4667	135.4667	0.0415	0.0000	136.3384
Total	0.1160	1.3331	0.9755	1.4600e-003		0.0734	0.0734		0.0675	0.0675	0.0000	135.4667	135.4667	0.0415	0.0000	136.3384

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	0.0335	0.3406	0.4553	8.9000e-004	0.0206	5.2100e-003	0.0258	6.0700e-003	4.7900e-003	0.0109	0.0000	79.9995	79.9995	5.7000e-004	0.0000	80.0115
Worker	0.0617	0.0913	0.9489	2.3100e-003	0.1459	1.5400e-003	0.1475	0.0396	1.4200e-003	0.0410	0.0000	169.7146	169.7146	8.7700e-003	0.0000	169.8987
Total	0.0952	0.4319	1.4042	3.2000e-003	0.1665	6.7500e-003	0.1733	0.0457	6.2100e-003	0.0519	0.0000	249.7141	249.7141	9.3400e-003	0.0000	249.9102

3.7 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.9392					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0148	0.0972	0.0831	1.3000e-004		7.7100e-003	7.7100e-003		7.7100e-003	7.7100e-003	0.0000	11.3620	11.3620	1.2000e-003	0.0000	11.3872
Total	2.9540	0.0972	0.0831	1.3000e-004		7.7100e-003	7.7100e-003		7.7100e-003	7.7100e-003	0.0000	11.3620	11.3620	1.2000e-003	0.0000	11.3872

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0130	0.0192	0.1992	4.9000e-004	0.0396	3.2000e-004	0.0399	0.0105	3.0000e-004	0.0108	0.0000	35.6282	35.6282	1.8400e-003	0.0000	35.6669
Total	0.0130	0.0192	0.1992	4.9000e-004	0.0396	3.2000e-004	0.0399	0.0105	3.0000e-004	0.0108	0.0000	35.6282	35.6282	1.8400e-003	0.0000	35.6669

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.9392					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0148	0.0972	0.0831	1.3000e-004		7.7100e-003	7.7100e-003		7.7100e-003	7.7100e-003	0.0000	11.3620	11.3620	1.2000e-003	0.0000	11.3872
Total	2.9540	0.0972	0.0831	1.3000e-004		7.7100e-003	7.7100e-003		7.7100e-003	7.7100e-003	0.0000	11.3620	11.3620	1.2000e-003	0.0000	11.3872

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	0.0130	0.0192	0.1992	4.9000e-004	0.0306	3.2000e-004	0.0310	8.3100e-003	3.0000e-004	8.6100e-003	0.0000	35.6282	35.6282	1.8400e-003	0.0000	35.6669
Total	0.0130	0.0192	0.1992	4.9000e-004	0.0306	3.2000e-004	0.0310	8.3100e-003	3.0000e-004	8.6100e-003	0.0000	35.6282	35.6282	1.8400e-003	0.0000	35.6669

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

- Increase Transit Accessibility
- Improve Pedestrian Network
- Implement Trip Reduction Program
- Market Commute Trip Reduction Option
- Employee Vanpool/Shuttle
- Provide Riade 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	3.0474	6.9224	28.6351	0.0599	4.0102	0.0887	4.0990	1.0731	0.0817	1.1548	0.0000	4,626.0013	4,626.0013	0.1896	0.0000	4,629.9835
Unmitigated	3.1904	8.0470	32.2259	0.0718	4.8466	0.1055	4.9521	1.2969	0.0971	1.3940	0.0000	5,547.1095	5,547.1095	0.2237	0.0000	5,551.8067

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,374.05	2,556.12	2166.99	8,100,290	6,773,294
Enclosed Parking Structure	0.00	0.00	0.00		
Government Office Building	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	636.00	791.85	659.20	901,619	732,330
Pharmacy/Drugstore w/o Drive Thru	720.00	720.48	720.48	985,547	800,630
Regional Shopping Center	183.99	215.37	108.78	384,407	311,901
Supermarket	1,534.05	2,663.85	2496.60	2,418,534	1,964,967
Total	5,448.09	6,947.67	6,152.05	12,790,397	10,583,122

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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Pharmacy/Drugstore w/o Drive	16.60	8.40	6.90	7.40	73.60	19.00	41	6	53
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

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513125	0.060112	0.180262	0.139218	0.042100	0.006630	0.016061	0.030999	0.001941	0.002506	0.004348	0.000594	0.002104

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

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	1,279.8059	1,279.8059	0.0588	0.0122	1,284.8144
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	1,279.8059	1,279.8059	0.0588	0.0122	1,284.8144
NaturalGas Mitigated	0.0220	0.1926	0.1153	1.2000e-003		0.0152	0.0152		0.0152	0.0152	0.0000	217.4647	217.4647	4.1700e-003	3.9900e-003	218.7882
NaturalGas Unmitigated	0.0220	0.1926	0.1153	1.2000e-003		0.0152	0.0152		0.0152	0.0152	0.0000	217.4647	217.4647	4.1700e-003	3.9900e-003	218.7882

5.2 Energy by Land Use - Natural Gas

Unmitigated

	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					
Enclosed Parking Structure	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
Government Office Building	115639	6.2000e-004	5.6700e-003	4.7600e-003	3.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	6.1710	6.1710	1.2000e-004	1.1000e-004	6.2085
High Turnover (Sit Down Restaurant)	1.16505e+006	6.2800e-003	0.0571	0.0480	3.4000e-004		4.3400e-003	4.3400e-003		4.3400e-003	4.3400e-003	0.0000	62.1715	62.1715	1.1900e-003	1.1400e-003	62.5499
Pharmacy/Drugstore w/o Drive Thru	13600	7.0000e-005	6.7000e-004	5.6000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7258	0.7258	1.0000e-005	1.0000e-005	0.7302
Regional Shopping Center	7327	4.0000e-005	3.6000e-004	3.0000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.3910	0.3910	1.0000e-005	1.0000e-005	0.3934
Supermarket	338850	1.8300e-003	0.0166	0.0140	1.0000e-004		1.2600e-003	1.2600e-003		1.2600e-003	1.2600e-003	0.0000	18.0823	18.0823	3.5000e-004	3.3000e-004	18.1924
Apartments Mid Rise	2.43467e+006	0.0131	0.1122	0.0477	7.2000e-004		9.0700e-003	9.0700e-003		9.0700e-003	9.0700e-003	0.0000	129.9232	129.9232	2.4900e-003	2.3800e-003	130.7139
Total		0.0220	0.1926	0.1153	1.1900e-003		0.0152	0.0152		0.0152	0.0152	0.0000	217.4647	217.4647	4.1700e-003	3.9800e-003	218.7882

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					
Enclosed Parking Structure	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
Government Office Building	115639	6.2000e-004	5.6700e-003	4.7600e-003	3.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	6.1710	6.1710	1.2000e-004	1.1000e-004	6.2085
High Turnover (Sit Down Restaurant)	1.16505e+006	6.2800e-003	0.0571	0.0480	3.4000e-004		4.3400e-003	4.3400e-003		4.3400e-003	4.3400e-003	0.0000	62.1715	62.1715	1.1900e-003	1.1400e-003	62.5499
Pharmacy/Drugstore w/o Drive Thru	13600	7.0000e-005	6.7000e-004	5.6000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7258	0.7258	1.0000e-005	1.0000e-005	0.7302
Regional Shopping Center	7327	4.0000e-005	3.6000e-004	3.0000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.3910	0.3910	1.0000e-005	1.0000e-005	0.3934
Supermarket	338850	1.8300e-003	0.0166	0.0140	1.0000e-004		1.2600e-003	1.2600e-003		1.2600e-003	1.2600e-003	0.0000	18.0823	18.0823	3.5000e-004	3.3000e-004	18.1924
Apartments Mid Rise	2.43467e+006	0.0131	0.1122	0.0477	7.2000e-004		9.0700e-003	9.0700e-003		9.0700e-003	9.0700e-003	0.0000	129.9232	129.9232	2.4900e-003	2.3800e-003	130.7139
Total		0.0220	0.1926	0.1153	1.1900e-003		0.0152	0.0152		0.0152	0.0152	0.0000	217.4647	217.4647	4.1700e-003	3.9800e-003	218.7882

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.24281e+006	355.6520	0.0164	3.3800e-003	357.0439
Enclosed Parking Structure	2.06685e+006	591.4648	0.0272	5.6300e-003	593.7795
Government Office Building	153727	43.9917	2.0200e-003	4.2000e-004	44.1639
High Turnover (Sit Down Restaurant)	234550	67.1204	3.0900e-003	6.4000e-004	67.3831
Pharmacy/Drugstore w/o Drive Thru	121360	34.7292	1.6000e-003	3.3000e-004	34.8651
Regional Shopping Center	65382.7	18.7104	8.6000e-004	1.8000e-004	18.7836
Supermarket	587550	168.1374	7.7300e-003	1.6000e-003	168.7954
Total		1,279.8059	0.0588	0.0122	1,284.8144

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.24281e+006	355.6520	0.0164	3.3800e-003	357.0439
Enclosed Parking Structure	2.06685e+006	591.4648	0.0272	5.6300e-003	593.7795
Government Office Building	153727	43.9917	2.0200e-003	4.2000e-004	44.1639
High Turnover (Sit Down Restaurant)	234550	67.1204	3.0900e-003	6.4000e-004	67.3831
Pharmacy/Drugstore w/o Drive Thru	121360	34.7292	1.6000e-003	3.3000e-004	34.8651
Regional Shopping Center	65382.7	18.7104	8.6000e-004	1.8000e-004	18.7836
Supermarket	587550	168.1374	7.7300e-003	1.6000e-003	168.7954
Total		1,279.8059	0.0588	0.0122	1,284.8144

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.1431	0.0434	3.7238	1.9000e-004		0.0256	0.0256		0.0255	0.0255	0.0000	83.1788	83.1788	7.5400e-003	1.4100e-003	83.7757
Unmitigated	4.3046	0.0731	5.9664	3.7600e-003		0.3611	0.3611		0.3610	0.3610	37.9202	78.8924	116.8126	0.1192	2.5700e-003	120.1125

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	0.5431					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4759					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.1693	0.0297	2.2430	3.5700e-003		0.3409	0.3409		0.3408	0.3408	37.9202	72.8696	110.7898	0.1131	2.5700e-003	113.9625
Landscaping	0.1162	0.0434	3.7234	1.9000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	6.0228	6.0228	6.0600e-003	0.0000	6.1500
Total	4.3046	0.0731	5.9664	3.7600e-003		0.3611	0.3611		0.3610	0.3610	37.9202	78.8924	116.8126	0.1192	2.5700e-003	120.1125

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	0.5431					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4759					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.8000e-003	0.0000	4.3000e-004	0.0000		5.3900e-003	5.3900e-003		5.3300e-003	5.3300e-003	0.0000	77.1561	77.1561	1.4800e-003	1.4100e-003	77.6256
Landscaping	0.1162	0.0434	3.7234	1.9000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	6.0228	6.0228	6.0600e-003	0.0000	6.1500
Total	3.1431	0.0434	3.7238	1.9000e-004		0.0256	0.0256		0.0255	0.0255	0.0000	83.1788	83.1788	7.5400e-003	1.4100e-003	83.7757

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	145.4835	0.7781	0.0195	167.8717
Unmitigated	172.6583	0.9724	0.0243	200.6226

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	23.26 / 14.6639	140.6714	0.7641	0.0192	162.6573
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Government Office Building	2.10182 / 1.28821	12.5942	0.0690	1.7300e-003	14.5804
High Turnover (Sit Down Restaurant)	1.51767 / 0.0968725	6.4446	0.0497	1.2200e-003	7.8684
Pharmacy/Drugstore w/o Drive Thru	0.56358 / 0.34542	3.3770	0.0185	4.6000e-004	3.9096
Regional Shopping Center	0.319253 / 0.195671	1.9130	0.0105	2.6000e-004	2.2147
Supermarket	1.84902 / 0.0571863	7.6582	0.0606	1.4900e-003	9.3922
Total		172.6583	0.9724	0.0243	200.6226

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	18.608 / 13.7694	119.0174	0.6114	0.0154	136.6221
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Government Office Building	1.68146 / 1.20963	10.6447	0.0553	1.3900e-003	12.2350
High Turnover (Sit Down Restaurant)	1.21413 / 0.0909632	5.1985	0.0398	9.8000e-004	6.3371
Pharmacy/Drugstore w/o Drive Thru	0.450864 / 0.324349	2.8543	0.0148	3.7000e-004	3.2807
Regional Shopping Center	0.255402 / 0.183735	1.6169	8.3900e-003	2.1000e-004	1.8584
Supermarket	1.47922 / 0.0536979	6.1518	0.0485	1.1900e-003	7.5384
Total		145.4835	0.7781	0.0195	167.8717

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	35.1936	2.0799	0.0000	78.8710
Unmitigated	70.3871	4.1598	0.0000	157.7421

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	164.22	33.3352	1.9701	0.0000	74.7063
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Government Office Building	9.84	1.9974	0.1180	0.0000	4.4764
High Turnover (Sit Down Restaurant)	59.5	12.0780	0.7138	0.0000	27.0675
Pharmacy/Drugstore w/o Drive Thru	24.06	4.8840	0.2886	0.0000	10.9453
Regional Shopping Center	4.53	0.9196	0.0543	0.0000	2.0608
Supermarket	84.6	17.1730	1.0149	0.0000	38.4859
Total		70.3871	4.1598	0.0000	157.7421

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	82.11	16.6676	0.9850	0.0000	37.3531
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Government Office Building	4.92	0.9987	0.0590	0.0000	2.2382
High Turnover (Sit Down Restaurant)	29.75	6.0390	0.3569	0.0000	13.5338
Pharmacy/Drugstore w/o Drive Thru	12.03	2.4420	0.1443	0.0000	5.4726
Regional Shopping Center	2.265	0.4598	0.0272	0.0000	1.0304
Supermarket	42.3	8.5865	0.5075	0.0000	19.2429
Total		35.1936	2.0799	0.0000	78.8710

9.0 Operational Offroad

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

The Avalon
South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	10.58	1000sqft	0.24	10,580.00	0
Pharmacy/Drugstore w/o Drive Thru	8.00	1000sqft	0.18	8,000.00	0
Enclosed Parking Structure	315.55	1000sqft	7.24	315,550.00	0
High Turnover (Sit Down Restaurant)	5.00	1000sqft	0.11	5,000.00	0
Apartments Mid Rise	357.00	Dwelling Unit	7.50	326,752.00	1021
Regional Shopping Center	4.31	1000sqft	0.10	4,310.00	0
Supermarket	15.00	1000sqft	0.34	15,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2017
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 - Proposed Land Uses
- Construction Phase - Proposed Construction Schedule
- Off-road Equipment - Proposed Equipment
- Off-road Equipment - Proposed Equipment

Off-road Equipment - Proposed Equipment

Off-road Equipment - Proposed Equipment

Off-road Equipment - Proposed Equipment

Off-road Equipment -

Grading - Proposed Earthwork

Acres Disturbed split among two phases

Demolition -

Trips and VMT - Proposed distance from project site to haul/dump stie = 25 miles

Proposed distance across project site = 0.2 mile

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

Waste Mitigation -

Architectural Coating - Low VOC Paint

Vehicle Trips - Per Traffic Study

Mobile Commute Mitigation - Proposed TDM measures

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblCommuteMitigation	EmployeeVanpoolPercentModeShare	2	100
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstructionPhase	NumDays	20.00	89.00
tblConstructionPhase	NumDays	300.00	335.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	30.00	34.00
tblConstructionPhase	NumDays	20.00	11.00
tblConstructionPhase	NumDays	30.00	32.00
tblConstructionPhase	PhaseEndDate	4/28/2017	4/30/2017
tblConstructionPhase	PhaseEndDate	11/13/2015	11/15/2015

tblConstructionPhase	PhaseStartDate	1/16/2016	1/17/2016
tblGrading	AcresOfGrading	51.00	2.50
tblGrading	AcresOfGrading	51.00	0.00
tblGrading	AcresOfGrading	16.00	3.00
tblGrading	MaterialExported	0.00	42,200.00
tblGrading	MaterialImported	0.00	4,500.00
tblGrading	MaterialMoistureContentBulldozing	7.90	0.00
tblGrading	MaterialMoistureContentTruckLoading	12.00	0.00
tblGrading	MaterialSiltContent	6.90	0.00
tblGrading	MeanVehicleSpeed	7.10	0.00
tblLandUse	LandUseSquareFeet	357,000.00	326,752.00
tblLandUse	LotAcreage	9.39	7.50
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Signal Boards
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes

tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripLength	20.00	0.20
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripNumber	445.00	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripNumber	10.00	0.00

tblVehicleTrips	WD_TR	6.59	6.65
tblVehicleTrips	WD_TR	68.93	0.00
tblVehicleTrips	WD_TR	127.15	127.20
tblVehicleTrips	WD_TR	90.06	90.00
tblVehicleTrips	WD_TR	42.94	42.69
tblVehicleTrips	WD_TR	102.24	102.27

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	5.0274	72.9308	46.3114	0.1375	4.1599	1.9650	5.7293	0.8116	1.8077	2.6193	0.0000	14,042.6954	14,042.6954	0.9725	0.0000	14,063.1183
2016	5.5732	50.6388	59.0570	0.1089	5.1220	2.8710	7.2272	1.3702	2.6436	3.3070	0.0000	10,176.1977	10,176.1977	1.3389	0.0000	10,204.3135
2017	66.6916	41.3132	55.7618	0.1089	5.1222	1.8859	7.0081	1.3703	1.7351	3.1054	0.0000	9,912.6454	9,912.6454	1.3191	0.0000	9,940.3458
Total	77.2921	164.8828	161.1302	0.3554	14.4041	6.7219	19.9646	3.5522	6.1863	9.0316	0.0000	34,131.5385	34,131.5385	3.6304	0.0000	34,207.7776

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	5.0274	72.9308	46.3114	0.1375	2.3842	1.9650	4.3492	0.6623	1.8077	2.4700	0.0000	14,042.6954	14,042.6954	0.9725	0.0000	14,063.1183
2016	5.5732	50.6388	59.0570	0.1089	3.9862	2.8710	6.0914	1.0915	2.6436	3.0282	0.0000	10,176.1977	10,176.1977	1.3389	0.0000	10,204.3135
2017	66.6916	41.3132	55.7618	0.1089	3.9864	1.8859	5.8723	1.0915	1.7351	2.8266	0.0000	9,912.6454	9,912.6454	1.3191	0.0000	9,940.3458
Total	77.2921	164.8828	161.1302	0.3554	10.3568	6.7219	16.3129	2.8453	6.1863	8.3248	0.0000	34,131.5385	34,131.5385	3.6304	0.0000	34,207.7776

	ROG	NOx	CO	SO2	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	28.10	0.00	18.29	19.90	0.00	7.83	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	111.0196	2.7206	209.2301	0.2870		27.4323	27.4323		27.4280	27.4280	3,343.9899	6,479.1116	9,823.1015	10.0259	0.2270	10,104.0043
Energy	0.1204	1.0554	0.6317	6.5700e-003		0.0832	0.0832		0.0832	0.0832		1,313.5004	1,313.5004	0.0252	0.0241	1,321.4942
Mobile	22.1578	50.5464	206.8095	0.4513	31.3433	0.6752	32.0185	8.3745	0.6214	8.9960		38,457.3459	38,457.3459	1.5765		38,490.4518
Total	133.2977	54.3223	416.6713	0.7449	31.3433	28.1907	59.5340	8.3745	28.1327	36.5072	3,343.9899	46,249.9580	49,593.9478	11.6275	0.2511	49,915.9502

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	18.0964	0.3472	29.8210	1.5600e-003		0.5926	0.5926		0.5881	0.5881	0.0000	6,857.1116	6,857.1116	0.1839	0.1247	6,899.6420
Energy	0.1204	1.0554	0.6317	6.5700e-003		0.0832	0.0832		0.0832	0.0832		1,313.5004	1,313.5004	0.0252	0.0241	1,321.4942
Mobile	21.2541	43.5135	184.4836	0.3761	25.9028	0.5681	26.4709	6.9209	0.5229	7.4438		32,041.7747	32,041.7747	1.3365		32,069.8409
Total	39.4709	44.9160	214.9363	0.3843	25.9028	1.2439	27.1466	6.9209	1.1941	8.1150	0.0000	40,212.3868	40,212.3868	1.5455	0.1488	40,290.9770

	ROG	NOx	CO	SO2	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	70.39	17.32	48.42	48.42	17.36	95.59	54.40	17.36	95.76	77.77	100.00	13.05	18.92	86.71	40.72	19.28

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	9/1/2015	9/30/2015	5	22	
2	Grading	Grading	10/1/2015	11/15/2015	5	32	
3	Grading 2	Grading	11/16/2015	12/31/2015	5	34	
4	Paving	Paving	1/1/2016	1/15/2016	5	11	
5	Building Construction	Building Construction	1/17/2016	4/30/2017	5	335	
6	Architectural Coating	Architectural Coating	5/1/2017	8/31/2017	5	89	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 661,673; Residential Outdoor: 220,558; Non-Residential Indoor: 537,660; Non-Residential Outdoor: 179,220

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	1	8.00	162	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading 2	Excavators	0	8.00	162	0.38
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Paving	Pavers	1	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40
Grading 2	Rubber Tired Dozers	0	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Grading 2	Graders	0	8.00	174	0.41
Grading 2	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Paving	Paving Equipment	1	8.00	130	0.36
Grading 2	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading 2	Rubber Tired Dozers	0	8.00	255	0.40
Grading 2	Scrapers	1	8.00	361	0.48
Building Construction	Welders	0	8.00	46	0.45
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	0	8.00	255	0.40
Grading	Scrapers	0	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Rubber Tired Loaders	1	8.00	199	0.36

Demolition	Skid Steer Loaders	1	8.00	64	0.37
Grading 2	Crawler Tractors	1	8.00	208	0.43
Grading 2	Other Construction Equipment	1	8.00	171	0.42
Grading 2	Skid Steer Loaders	1	8.00	64	0.37
Paving	Graders	1	8.00	174	0.41
Paving	Other Construction Equipment	3	8.00	171	0.42
Paving	Signal Boards	2	8.00	6	0.82
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Other Construction Equipment	1	8.00	171	0.42
Building Construction	Rough Terrain Forklifts	4	8.00	100	0.40
Building Construction	Skid Steer Loaders	2	8.00	64	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	5	13.00	0.00	371.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Grading 2	4	10.00	0.00	445.00	14.70	6.90	0.20	LD_Mix	HDT_Mix	HHDT
Grading 2	4	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	404.00	97.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	11	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	81.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	4,173.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6476	0.0000	3.6476	0.5523	0.0000	0.5523			0.0000			0.0000
Off-Road	2.6980	24.1557	15.0224	0.0268		1.4553	1.4553		1.4101	1.4101		2,671.7822	2,671.7822	0.5690		2,683.7302
Total	2.6980	24.1557	15.0224	0.0268	3.6476	1.4553	5.1028	0.5523	1.4101	1.9624		2,671.7822	2,671.7822	0.5690		2,683.7302

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	0.4002	6.7610	4.3867	0.0155	0.3671	0.1129	0.4799	0.1005	0.1038	0.2043		1,575.3382	1,575.3382	0.0124		1,575.5992
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	0.0614	0.0824	0.8613	1.7300e-003	0.1453	1.2800e-003	0.1466	0.0385	1.1700e-003	0.0397		150.2337	150.2337	8.6200e-003		150.4146
Total	0.4616	6.8434	5.2480	0.0172	0.5124	0.1142	0.6265	0.1390	0.1050	0.2440		1,725.5719	1,725.5719	0.0211		1,726.0138

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					1.3514	0.0000	1.3514	0.2046	0.0000	0.2046			0.0000			0.0000
Off-Road	2.6980	24.1557	15.0224	0.0268		1.4553	1.4553		1.4101	1.4101	0.0000	2,671.7822	2,671.7822	0.5690		2,683.7302
Total	2.6980	24.1557	15.0224	0.0268	1.3514	1.4553	2.8067	0.2046	1.4101	1.6147	0.0000	2,671.7822	2,671.7822	0.5690		2,683.7302

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	0.4002	6.7610	4.3867	0.0155	0.2946	0.1129	0.4075	0.0827	0.1038	0.1865		1,575.3382	1,575.3382	0.0124		1,575.5992
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	0.0614	0.0824	0.8613	1.7300e-003	0.1125	1.2800e-003	0.1137	0.0305	1.1700e-003	0.0317		150.2337	150.2337	8.6200e-003		150.4146
Total	0.4616	6.8434	5.2480	0.0172	0.4071	0.1142	0.5212	0.1132	0.1050	0.2182		1,725.5719	1,725.5719	0.0211		1,726.0138

3.3 Grading - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0994	0.0000	0.0994	0.0107	0.0000	0.0107			0.0000			0.0000
Off-Road	1.8950	20.5975	11.8590	0.0168		1.0913	1.0913		1.0040	1.0040		1,768.1767	1,768.1767	0.5279		1,779.2620
Total	1.8950	20.5975	11.8590	0.0168	0.0994	1.0913	1.1907	0.0107	1.0040	1.0148		1,768.1767	1,768.1767	0.5279		1,779.2620

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	3.0947	52.2826	33.9223	0.1196	2.8385	0.8729	3.7114	0.7771	0.8029	1.5801		12,182.0673	12,182.0673	0.0961		12,184.0853
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	0.0378	0.0507	0.5300	1.0600e-003	0.0894	7.9000e-004	0.0902	0.0237	7.2000e-004	0.0244		92.4515	92.4515	5.3000e-003		92.5628
Total	3.1325	52.3333	34.4524	0.1207	2.9279	0.8737	3.8016	0.8009	0.8037	1.6045		12,274.5188	12,274.5188	0.1014		12,276.6482

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					0.0368	0.0000	0.0368	3.9800e-003	0.0000	3.9800e-003			0.0000			0.0000
Off-Road	1.8950	20.5975	11.8590	0.0168		1.0913	1.0913		1.0040	1.0040	0.0000	1,768.1767	1,768.1767	0.5279		1,779.2620
Total	1.8950	20.5975	11.8590	0.0168	0.0368	1.0913	1.1282	3.9800e-003	1.0040	1.0080	0.0000	1,768.1767	1,768.1767	0.5279		1,779.2620

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	3.0947	52.2826	33.9223	0.1196	2.2781	0.8729	3.1510	0.6396	0.8029	1.4425		12,182.0673	12,182.0673	0.0961		12,184.0853
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	0.0378	0.0507	0.5300	1.0600e-003	0.0692	7.9000e-004	0.0700	0.0188	7.2000e-004	0.0195		92.4515	92.4515	5.3000e-003		92.5628
Total	3.1325	52.3333	34.4524	0.1207	2.3473	0.8737	3.2210	0.6584	0.8037	1.4620		12,274.5188	12,274.5188	0.1014		12,276.6482

3.4 Grading 2 - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0780	0.0000	0.0780	8.4200e-003	0.0000	8.4200e-003			0.0000			0.0000
Off-Road	2.9831	37.7730	20.1187	0.0308		1.6303	1.6303		1.4999	1.4999		3,232.4481	3,232.4481	0.9650		3,252.7135
Total	2.9831	37.7730	20.1187	0.0308	0.0780	1.6303	1.7083	8.4200e-003	1.4999	1.5083		3,232.4481	3,232.4481	0.9650		3,252.7135

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	0.1116	0.3199	2.0091	3.4000e-004	4.2800e-003	1.9300e-003	6.2100e-003	1.1500e-003	1.7700e-003	2.9100e-003		31.3488	31.3488	8.7000e-004		31.3670
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	0.0472	0.0634	0.6625	1.3300e-003	0.2090	9.8000e-004	0.2099	0.0535	9.0000e-004	0.0544		115.5644	115.5644	6.6300e-003		115.7036
Total	0.1589	0.3833	2.6716	1.6700e-003	0.2132	2.9100e-003	0.2162	0.0547	2.6700e-003	0.0573		146.9131	146.9131	7.5000e-003		147.0706

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					0.0289	0.0000	0.0289	3.1200e-003	0.0000	3.1200e-003			0.0000			0.0000
Off-Road	2.9831	37.7730	20.1187	0.0308		1.6303	1.6303		1.4999	1.4999	0.0000	3,232.4481	3,232.4481	0.9650		3,252.7135
Total	2.9831	37.7730	20.1187	0.0308	0.0289	1.6303	1.6592	3.1200e-003	1.4999	1.5030	0.0000	3,232.4481	3,232.4481	0.9650		3,252.7135

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	0.1116	0.3199	2.0091	3.4000e-004	3.3800e-003	1.9300e-003	5.3100e-003	9.3000e-004	1.7700e-003	2.6900e-003		31.3488	31.3488	8.7000e-004		31.3670
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	0.0472	0.0634	0.6625	1.3300e-003	0.1584	9.8000e-004	0.1594	0.0411	9.0000e-004	0.0420		115.5644	115.5644	6.6300e-003		115.7036
Total	0.1589	0.3833	2.6716	1.6700e-003	0.1618	2.9100e-003	0.1647	0.0420	2.6700e-003	0.0447		146.9131	146.9131	7.5000e-003		147.0706

3.5 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.8222	50.4787	29.9551	0.0427		2.8684	2.8684		2.6411	2.6411		4,393.1271	4,393.1271	1.3056		4,420.5450
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	4.8222	50.4787	29.9551	0.0427		2.8684	2.8684		2.6411	2.6411		4,393.1271	4,393.1271	1.3056		4,420.5450

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	0.1192	0.1601	1.6744	3.7200e-003	0.3130	2.6200e-003	0.3156	0.0830	2.4100e-003	0.0854		312.3947	312.3947	0.0171		312.7532
Total	0.1192	0.1601	1.6744	3.7200e-003	0.3130	2.6200e-003	0.3156	0.0830	2.4100e-003	0.0854		312.3947	312.3947	0.0171		312.7532

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	4.8222	50.4787	29.9551	0.0427		2.8684	2.8684		2.6411	2.6411	0.0000	4,393.1271	4,393.1271	1.3056		4,420.5450
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	4.8222	50.4787	29.9551	0.0427		2.8684	2.8684		2.6411	2.6411	0.0000	4,393.1271	4,393.1271	1.3056		4,420.5450

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	0.1192	0.1601	1.6744	3.7200e-003	0.2422	2.6200e-003	0.2449	0.0656	2.4100e-003	0.0680		312.3947	312.3947	0.0171		312.7532
Total	0.1192	0.1601	1.6744	3.7200e-003	0.2422	2.6200e-003	0.2449	0.0656	2.4100e-003	0.0680		312.3947	312.3947	0.0171		312.7532

3.6 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9656	34.2806	23.2846	0.0344		1.9293	1.9293		1.7749	1.7749		3,570.0057	3,570.0057	1.0768		3,592.6193
Total	2.9656	34.2806	23.2846	0.0344		1.9293	1.9293		1.7749	1.7749		3,570.0057	3,570.0057	1.0768		3,592.6193

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	0.8881	8.6368	11.6131	0.0210	0.6062	0.1382	0.7444	0.1726	0.1271	0.2997		2,098.7836	2,098.7836	0.0156		2,099.1120
Worker	1.7194	2.3105	24.1593	0.0536	4.5158	0.0377	4.5535	1.1976	0.0347	1.2323		4,507.4085	4,507.4085	0.2464		4,512.5822
Total	2.6075	10.9473	35.7724	0.0746	5.1220	0.1759	5.2979	1.3702	0.1618	1.5320		6,606.1921	6,606.1921	0.2620		6,611.6942

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	2.9656	34.2806	23.2846	0.0344		1.9293	1.9293		1.7749	1.7749	0.0000	3,570.0057	3,570.0057	1.0768		3,592.6193
Total	2.9656	34.2806	23.2846	0.0344		1.9293	1.9293		1.7749	1.7749	0.0000	3,570.0057	3,570.0057	1.0768		3,592.6193

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	0.8881	8.6368	11.6131	0.0210	0.4912	0.1382	0.6294	0.1444	0.1271	0.2715		2,098.7836	2,098.7836	0.0156		2,099.1120
Worker	1.7194	2.3105	24.1593	0.0536	3.4950	0.0377	3.5328	0.9471	0.0347	0.9818		4,507.4085	4,507.4085	0.2464		4,512.5822
Total	2.6075	10.9473	35.7724	0.0746	3.9862	0.1759	4.1622	1.0915	0.1618	1.2533		6,606.1921	6,606.1921	0.2620		6,611.6942

3.6 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7292	31.3676	22.9526	0.0344		1.7263	1.7263		1.5882	1.5882		3,513.5686	3,513.5686	1.0766		3,536.1762
Total	2.7292	31.3676	22.9526	0.0344		1.7263	1.7263		1.5882	1.5882		3,513.5686	3,513.5686	1.0766		3,536.1762

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	0.8112	7.8596	11.0248	0.0209	0.6064	0.1233	0.7297	0.1727	0.1134	0.2861		2,064.7795	2,064.7795	0.0151		2,065.0975
Worker	1.5423	2.0860	21.7845	0.0536	4.5158	0.0363	4.5521	1.1976	0.0335	1.2311		4,334.2973	4,334.2973	0.2274		4,339.0722
Total	2.3535	9.9456	32.8092	0.0745	5.1222	0.1596	5.2818	1.3703	0.1469	1.5172		6,399.0768	6,399.0768	0.2425		6,404.1697

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	2.7292	31.3676	22.9526	0.0344		1.7263	1.7263		1.5882	1.5882	0.0000	3,513.5686	3,513.5686	1.0766		3,536.1762
Total	2.7292	31.3676	22.9526	0.0344		1.7263	1.7263		1.5882	1.5882	0.0000	3,513.5686	3,513.5686	1.0766		3,536.1762

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	0.8112	7.8596	11.0248	0.0209	0.4914	0.1233	0.6146	0.1445	0.1134	0.2579		2,064.7795	2,064.7795	0.0151		2,065.0975
Worker	1.5423	2.0860	21.7845	0.0536	3.4950	0.0363	3.5314	0.9471	0.0335	0.9806		4,334.2973	4,334.2973	0.2274		4,339.0722
Total	2.3535	9.9456	32.8092	0.0745	3.9864	0.1596	4.1460	1.0915	0.1469	1.2384		6,399.0768	6,399.0768	0.2425		6,404.1697

3.7 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	66.0500					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721
Total	66.3823	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721

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	0.3092	0.4182	4.3677	0.0107	0.9054	7.2800e-003	0.9127	0.2401	6.7200e-003	0.2468		869.0052	869.0052	0.0456		869.9625
Total	0.3092	0.4182	4.3677	0.0107	0.9054	7.2800e-003	0.9127	0.2401	6.7200e-003	0.2468		869.0052	869.0052	0.0456		869.9625

10.0 Vegetation

The Avalon
South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	10.58	1000sqft	0.24	10,580.00	0
Pharmacy/Drugstore w/o Drive Thru	8.00	1000sqft	0.18	8,000.00	0
Enclosed Parking Structure	315.55	1000sqft	7.24	315,550.00	0
High Turnover (Sit Down Restaurant)	5.00	1000sqft	0.11	5,000.00	0
Apartments Mid Rise	357.00	Dwelling Unit	7.50	326,752.00	1021
Regional Shopping Center	4.31	1000sqft	0.10	4,310.00	0
Supermarket	15.00	1000sqft	0.34	15,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2017
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 - Proposed Land Uses
- Construction Phase - Proposed Construction Schedule
- Off-road Equipment - Proposed Equipment
- Off-road Equipment - Proposed Equipment

Off-road Equipment - Proposed Equipment

Off-road Equipment - Proposed Equipment

Off-road Equipment - Proposed Equipment

Off-road Equipment -

Grading - Proposed Earthwork

Acres Disturbed split among two phases

Demolition -

Trips and VMT - Proposed distance from project site to haul/dump stie = 25 miles

Proposed distance across project site = 0.2 mile

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

Waste Mitigation -

Architectural Coating - Low VOC Paint

Vehicle Trips - Per Traffic Study

Mobile Commute Mitigation - Proposed TDM measures

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblCommuteMitigation	EmployeeVanpoolPercentModeShare	2	100
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstructionPhase	NumDays	20.00	89.00
tblConstructionPhase	NumDays	300.00	335.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	30.00	34.00
tblConstructionPhase	NumDays	20.00	11.00
tblConstructionPhase	NumDays	30.00	32.00
tblConstructionPhase	PhaseEndDate	4/28/2017	4/30/2017
tblConstructionPhase	PhaseEndDate	11/13/2015	11/15/2015

tblConstructionPhase	PhaseStartDate	1/16/2016	1/17/2016
tblGrading	AcresOfGrading	51.00	2.50
tblGrading	AcresOfGrading	51.00	0.00
tblGrading	AcresOfGrading	16.00	3.00
tblGrading	MaterialExported	0.00	42,200.00
tblGrading	MaterialImported	0.00	4,500.00
tblGrading	MaterialMoistureContentBulldozing	7.90	0.00
tblGrading	MaterialMoistureContentTruckLoading	12.00	0.00
tblGrading	MaterialSiltContent	6.90	0.00
tblGrading	MeanVehicleSpeed	7.10	0.00
tblLandUse	LandUseSquareFeet	357,000.00	326,752.00
tblLandUse	LotAcreage	9.39	7.50
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Signal Boards
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes

tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripLength	20.00	0.20
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripNumber	445.00	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripNumber	10.00	0.00

tblVehicleTrips	WD_TR	6.59	6.65
tblVehicleTrips	WD_TR	68.93	0.00
tblVehicleTrips	WD_TR	127.15	127.20
tblVehicleTrips	WD_TR	90.06	90.00
tblVehicleTrips	WD_TR	42.94	42.69
tblVehicleTrips	WD_TR	102.24	102.27

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	4.8778	71.0559	42.6907	0.1378	4.1599	1.9626	5.7290	0.8116	1.8055	2.6171	0.0000	14,072.0412	14,072.0412	0.9724	0.0000	14,092.4620
2016	5.4578	50.6245	59.1647	0.1127	5.1220	2.8710	7.2258	1.3702	2.6436	3.3057	0.0000	10,492.4393	10,492.4393	1.3384	0.0000	10,520.5456
2017	66.6855	40.9375	55.7683	0.1126	5.1222	1.8847	7.0069	1.3703	1.7340	3.1043	0.0000	10,217.8325	10,217.8325	1.3186	0.0000	10,245.5233
Total	77.0210	162.6178	157.6238	0.3631	14.4041	6.7183	19.9617	3.5522	6.1830	9.0270	0.0000	34,782.3130	34,782.3130	3.6294	0.0000	34,858.5309

9.0 Operational Offroad

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