

6565 312 S Euclid Street Residential Project - Orange County, Annual

6565 312 S Euclid Street Residential Project
Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.47	Acre	0.47	20,473.20	0
Other Non-Asphalt Surfaces	0.35	Acre	0.35	15,354.90	0
Parking Lot	25.00	Space	0.22	10,000.00	0
Single Family Housing	39.00	Dwelling Unit	1.31	70,200.00	112

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2018
Utility Company	Anaheim Public Utilities				
CO2 Intensity (lb/MWhr)	1543.28	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - 2.35 acres w/ 39 single-family dwelling units, 25 guest parking spaces, ~20% of site (0.47 acres) onsite roadways, ~15% of site as landscaping (0.3525 acres).

Construction Phase - Construction expected to start September 2017, CalEEMod default timing has been used.

Demolition - Existing buildings, including an office building, commercial shops, and a restaurant, totaling ~102,000 square feet.

Grading - Site is 2.35 acres. Per applicant 4,800 CY of import.

Vehicle Trips - Per TIA, residential dwelling unit trip generation rate of 9.52 trips/DU/day.

Woodstoves - SCAQMD Rule 445 prohibits the installation of wood burning devices in new developments.

Sequestration - Per applicant ~70 trees to be planted.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Downtown Anaheim is ~1.54 miles northeast and OCTA Route 37 stop Euclid-Broadway is ~0.02 miles west of the project site. 39 DU / 2.35 ac = 16.6 DU/acre.

Energy Mitigation - Energy-Star Appliances to be used on-site.

Water Mitigation - Per Green Building Standards.

Waste Mitigation - AB 939 requires all jurisdictions in CA to divert at least 50% of their waste away from landfills.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblFireplaces	NumberGas	33.15	35.10
tblFireplaces	NumberWood	1.95	0.00
tblGrading	AcresOfGrading	3.00	2.35
tblGrading	MaterialImported	0.00	4,800.00
tblLandUse	LotAcreage	12.66	1.31
tblSequestration	NumberOfNewTrees	0.00	70.00
tblVehicleTrips	ST_TR	9.91	9.52
tblVehicleTrips	SU_TR	8.62	9.52
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00

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2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.1471	1.2536	0.7753	1.6500e-003	0.0925	0.0659	0.1583	0.0239	0.0625	0.0864	0.0000	149.6780	149.6780	0.0267	0.0000	150.3457
2018	0.4849	1.8642	1.4615	2.6500e-003	0.0362	0.1067	0.1429	9.7600e-003	0.1021	0.1118	0.0000	229.7854	229.7854	0.0419	0.0000	230.8320
Maximum	0.4849	1.8642	1.4615	2.6500e-003	0.0925	0.1067	0.1583	0.0239	0.1021	0.1118	0.0000	229.7854	229.7854	0.0419	0.0000	230.8320

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.1471	1.2536	0.7753	1.6500e-003	0.0501	0.0659	0.1159	0.0131	0.0625	0.0756	0.0000	149.6779	149.6779	0.0267	0.0000	150.3456
2018	0.4849	1.8642	1.4615	2.6500e-003	0.0362	0.1067	0.1429	9.7600e-003	0.1021	0.1118	0.0000	229.7852	229.7852	0.0419	0.0000	230.8318
Maximum	0.4849	1.8642	1.4615	2.6500e-003	0.0501	0.1067	0.1429	0.0131	0.1021	0.1118	0.0000	229.7852	229.7852	0.0419	0.0000	230.8318

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	32.96	0.00	14.08	32.05	0.00	5.43	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-1-2017	11-30-2017	1.0948	1.0948
2	12-1-2017	2-28-2018	0.8478	0.8478
3	3-1-2018	5-31-2018	0.8333	0.8333
4	6-1-2018	8-31-2018	0.8414	0.8414
5	9-1-2018	9-30-2018	0.1189	0.1189
		Highest	1.0948	1.0948

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	0.2926	0.0120	0.4085	7.0000e-005		2.8000e-003	2.8000e-003		2.8000e-003	2.8000e-003	0.0000	9.0864	9.0864	8.1000e-004	1.5000e-004	9.1528
Energy	6.5600e-003	0.0561	0.0239	3.6000e-004		4.5300e-003	4.5300e-003		4.5300e-003	4.5300e-003	0.0000	305.2370	305.2370	5.7600e-003	2.1200e-003	306.0142
Mobile	0.1311	0.5813	1.8152	5.8100e-003	0.4811	6.8400e-003	0.4880	0.1288	6.4500e-003	0.1353	0.0000	533.0974	533.0974	0.0246	0.0000	533.7123
Waste						0.0000	0.0000		0.0000	0.0000	9.3214	0.0000	9.3214	0.5509	0.0000	23.0932
Water						0.0000	0.0000		0.0000	0.0000	0.8061	35.6198	36.4260	0.0835	2.0900e-003	39.1365
Total	0.4302	0.6494	2.2475	6.2400e-003	0.4811	0.0142	0.4953	0.1288	0.0138	0.1426	10.1275	883.0407	893.1682	0.6655	4.3600e-003	911.1091

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2926	0.0120	0.4085	7.0000e-005		2.8000e-003	2.8000e-003		2.8000e-003	2.8000e-003	0.0000	9.0864	9.0864	8.1000e-004	1.5000e-004	9.1528
Energy	6.5600e-003	0.0561	0.0239	3.6000e-004		4.5300e-003	4.5300e-003		4.5300e-003	4.5300e-003	0.0000	300.6475	300.6475	5.6700e-003	2.1100e-003	301.4172
Mobile	0.1105	0.4322	1.2813	3.7700e-003	0.3058	4.5100e-003	0.3103	0.0819	4.2500e-003	0.0862	0.0000	345.8777	345.8777	0.0170	0.0000	346.3032
Waste						0.0000	0.0000		0.0000	0.0000	4.6607	0.0000	4.6607	0.2754	0.0000	11.5466
Water						0.0000	0.0000		0.0000	0.0000	0.6449	30.9876	31.6325	0.0668	1.6800e-003	33.8050
Total	0.4096	0.5003	1.7136	4.2000e-003	0.3058	0.0118	0.3177	0.0819	0.0116	0.0935	5.3056	686.5992	691.9048	0.3658	3.9400e-003	702.2249

	ROG	NOx	CO	SO2	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	4.78	22.96	23.75	32.69	36.43	16.44	35.86	36.43	15.97	34.46	47.61	22.25	22.53	45.04	9.63	22.93

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2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	49.5600
Total	49.5600

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	9/1/2017	9/28/2017	5	20	
2	Grading	Grading	9/29/2017	10/6/2017	5	6	
3	Building Construction	Building Construction	10/7/2017	8/10/2018	5	220	
4	Paving	Paving	8/11/2018	8/24/2018	5	10	
5	Architectural Coating	Architectural Coating	8/25/2018	9/7/2018	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.35

Acres of Paving: 1.04

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Residential Indoor: 142,155; Residential Outdoor: 47,385; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,750 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	7.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	33.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	464.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	475.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0502	0.0000	0.0502	7.6000e-003	0.0000	7.6000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0276	0.2676	0.1556	2.4000e-004		0.0165	0.0165		0.0154	0.0154	0.0000	21.9668	21.9668	5.5600e-003	0.0000	22.1057
Total	0.0276	0.2676	0.1556	2.4000e-004	0.0502	0.0165	0.0667	7.6000e-003	0.0154	0.0230	0.0000	21.9668	21.9668	5.5600e-003	0.0000	22.1057

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3.2 Demolition - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.3700e-003	0.0817	0.0180	1.8000e-004	3.9800e-003	4.5000e-004	4.4300e-003	1.0900e-003	4.3000e-004	1.5200e-003	0.0000	18.3911	18.3911	1.9700e-003	0.0000	18.4403
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	6.5000e-004	5.1000e-004	5.4700e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3502	1.3502	4.0000e-005	0.0000	1.3512
Total	3.0200e-003	0.0822	0.0235	1.9000e-004	5.4100e-003	4.6000e-004	5.8700e-003	1.4700e-003	4.4000e-004	1.9100e-003	0.0000	19.7413	19.7413	2.0100e-003	0.0000	19.7915

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					0.0196	0.0000	0.0196	2.9600e-003	0.0000	2.9600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0276	0.2676	0.1556	2.4000e-004		0.0165	0.0165		0.0154	0.0154	0.0000	21.9668	21.9668	5.5600e-003	0.0000	22.1057
Total	0.0276	0.2676	0.1556	2.4000e-004	0.0196	0.0165	0.0361	2.9600e-003	0.0154	0.0184	0.0000	21.9668	21.9668	5.5600e-003	0.0000	22.1057

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3.2 Demolition - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.3700e-003	0.0817	0.0180	1.8000e-004	3.9800e-003	4.5000e-004	4.4300e-003	1.0900e-003	4.3000e-004	1.5200e-003	0.0000	18.3911	18.3911	1.9700e-003	0.0000	18.4403
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	6.5000e-004	5.1000e-004	5.4700e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3502	1.3502	4.0000e-005	0.0000	1.3512
Total	3.0200e-003	0.0822	0.0235	1.9000e-004	5.4100e-003	4.6000e-004	5.8700e-003	1.4700e-003	4.4000e-004	1.9100e-003	0.0000	19.7413	19.7413	2.0100e-003	0.0000	19.7915

3.3 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0193	0.0000	0.0193	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9600e-003	0.0785	0.0323	6.0000e-005		3.9000e-003	3.9000e-003		3.5800e-003	3.5800e-003	0.0000	5.7484	5.7484	1.7600e-003	0.0000	5.7925
Total	6.9600e-003	0.0785	0.0323	6.0000e-005	0.0193	3.9000e-003	0.0232	0.0101	3.5800e-003	0.0137	0.0000	5.7484	5.7484	1.7600e-003	0.0000	5.7925

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3.3 Grading - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.4300e-003	0.0837	0.0185	1.9000e-004	4.0700e-003	4.6000e-004	4.5300e-003	1.1200e-003	4.4000e-004	1.5600e-003	0.0000	18.8271	18.8271	2.0100e-003	0.0000	18.8775
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.2000e-004	1.2600e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3116	0.3116	1.0000e-005	0.0000	0.3118
Total	2.5800e-003	0.0838	0.0197	1.9000e-004	4.4000e-003	4.6000e-004	4.8600e-003	1.2100e-003	4.4000e-004	1.6500e-003	0.0000	19.1387	19.1387	2.0200e-003	0.0000	19.1893

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					7.5300e-003	0.0000	7.5300e-003	3.9300e-003	0.0000	3.9300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9600e-003	0.0785	0.0323	6.0000e-005		3.9000e-003	3.9000e-003		3.5800e-003	3.5800e-003	0.0000	5.7484	5.7484	1.7600e-003	0.0000	5.7924
Total	6.9600e-003	0.0785	0.0323	6.0000e-005	7.5300e-003	3.9000e-003	0.0114	3.9300e-003	3.5800e-003	7.5100e-003	0.0000	5.7484	5.7484	1.7600e-003	0.0000	5.7924

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3.3 Grading - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.4300e-003	0.0837	0.0185	1.9000e-004	4.0700e-003	4.6000e-004	4.5300e-003	1.1200e-003	4.4000e-004	1.5600e-003	0.0000	18.8271	18.8271	2.0100e-003	0.0000	18.8775
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.2000e-004	1.2600e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3116	0.3116	1.0000e-005	0.0000	0.3118
Total	2.5800e-003	0.0838	0.0197	1.9000e-004	4.4000e-003	4.6000e-004	4.8600e-003	1.2100e-003	4.4000e-004	1.6500e-003	0.0000	19.1387	19.1387	2.0200e-003	0.0000	19.1893

3.4 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	0.1003	0.6909	0.4893	7.5000e-004		0.0441	0.0441		0.0422	0.0422	0.0000	63.8918	63.8918	0.0142	0.0000	64.2475
Total	0.1003	0.6909	0.4893	7.5000e-004		0.0441	0.0441		0.0422	0.0422	0.0000	63.8918	63.8918	0.0142	0.0000	64.2475

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3.4 Building Construction - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6900e-003	0.0468	0.0133	9.0000e-005	2.2700e-003	4.0000e-004	2.6700e-003	6.5000e-004	3.8000e-004	1.0400e-003	0.0000	8.9087	8.9087	8.3000e-004	0.0000	8.9295
Worker	4.9800e-003	3.8800e-003	0.0416	1.1000e-004	0.0109	7.0000e-005	0.0109	2.8900e-003	7.0000e-005	2.9500e-003	0.0000	10.2823	10.2823	3.0000e-004	0.0000	10.2898
Total	6.6700e-003	0.0507	0.0549	2.0000e-004	0.0131	4.7000e-004	0.0136	3.5400e-003	4.5000e-004	3.9900e-003	0.0000	19.1910	19.1910	1.1300e-003	0.0000	19.2193

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	0.1003	0.6909	0.4893	7.5000e-004		0.0441	0.0441		0.0422	0.0422	0.0000	63.8917	63.8917	0.0142	0.0000	64.2474
Total	0.1003	0.6909	0.4893	7.5000e-004		0.0441	0.0441		0.0422	0.0422	0.0000	63.8917	63.8917	0.0142	0.0000	64.2474

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3.4 Building Construction - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6900e-003	0.0468	0.0133	9.0000e-005	2.2700e-003	4.0000e-004	2.6700e-003	6.5000e-004	3.8000e-004	1.0400e-003	0.0000	8.9087	8.9087	8.3000e-004	0.0000	8.9295
Worker	4.9800e-003	3.8800e-003	0.0416	1.1000e-004	0.0109	7.0000e-005	0.0109	2.8900e-003	7.0000e-005	2.9500e-003	0.0000	10.2823	10.2823	3.0000e-004	0.0000	10.2898
Total	6.6700e-003	0.0507	0.0549	2.0000e-004	0.0131	4.7000e-004	0.0136	3.5400e-003	4.5000e-004	3.9900e-003	0.0000	19.1910	19.1910	1.1300e-003	0.0000	19.2193

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2330	1.6566	1.2575	2.0000e-003		0.1006	0.1006		0.0964	0.0964	0.0000	169.0830	169.0830	0.0364	0.0000	169.9936
Total	0.2330	1.6566	1.2575	2.0000e-003		0.1006	0.1006		0.0964	0.0964	0.0000	169.0830	169.0830	0.0364	0.0000	169.9936

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3.4 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9600e-003	0.1169	0.0323	2.4000e-004	6.0400e-003	8.5000e-004	6.9000e-003	1.7400e-003	8.2000e-004	2.5600e-003	0.0000	23.6493	23.6493	2.1200e-003	0.0000	23.7024
Worker	0.0120	9.0600e-003	0.0986	2.9000e-004	0.0290	1.9000e-004	0.0292	7.7000e-003	1.8000e-004	7.8800e-003	0.0000	26.6196	26.6196	7.1000e-004	0.0000	26.6373
Total	0.0159	0.1260	0.1308	5.3000e-004	0.0350	1.0400e-003	0.0361	9.4400e-003	1.0000e-003	0.0104	0.0000	50.2689	50.2689	2.8300e-003	0.0000	50.3396

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	0.2330	1.6566	1.2575	2.0000e-003		0.1006	0.1006		0.0964	0.0964	0.0000	169.0828	169.0828	0.0364	0.0000	169.9934
Total	0.2330	1.6566	1.2575	2.0000e-003		0.1006	0.1006		0.0964	0.0964	0.0000	169.0828	169.0828	0.0364	0.0000	169.9934

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3.4 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9600e-003	0.1169	0.0323	2.4000e-004	6.0400e-003	8.5000e-004	6.9000e-003	1.7400e-003	8.2000e-004	2.5600e-003	0.0000	23.6493	23.6493	2.1200e-003	0.0000	23.7024
Worker	0.0120	9.0600e-003	0.0986	2.9000e-004	0.0290	1.9000e-004	0.0292	7.7000e-003	1.8000e-004	7.8800e-003	0.0000	26.6196	26.6196	7.1000e-004	0.0000	26.6373
Total	0.0159	0.1260	0.1308	5.3000e-004	0.0350	1.0400e-003	0.0361	9.4400e-003	1.0000e-003	0.0104	0.0000	50.2689	50.2689	2.8300e-003	0.0000	50.3396

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.0200e-003	0.0713	0.0599	9.0000e-005		4.2500e-003	4.2500e-003		3.9200e-003	3.9200e-003	0.0000	8.0478	8.0478	2.4600e-003	0.0000	8.1093
Paving	9.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.9200e-003	0.0713	0.0599	9.0000e-005		4.2500e-003	4.2500e-003		3.9200e-003	3.9200e-003	0.0000	8.0478	8.0478	2.4600e-003	0.0000	8.1093

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3.5 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	3.4000e-004	2.6000e-004	2.8000e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7562	0.7562	2.0000e-005	0.0000	0.7567
Total	3.4000e-004	2.6000e-004	2.8000e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7562	0.7562	2.0000e-005	0.0000	0.7567

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	7.0200e-003	0.0713	0.0599	9.0000e-005		4.2500e-003	4.2500e-003		3.9200e-003	3.9200e-003	0.0000	8.0478	8.0478	2.4600e-003	0.0000	8.1093
Paving	9.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.9200e-003	0.0713	0.0599	9.0000e-005		4.2500e-003	4.2500e-003		3.9200e-003	3.9200e-003	0.0000	8.0478	8.0478	2.4600e-003	0.0000	8.1093

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3.5 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	2.6000e-004	2.8000e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7562	0.7562	2.0000e-005	0.0000	0.7567
Total	3.4000e-004	2.6000e-004	2.8000e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7562	0.7562	2.0000e-005	0.0000	0.7567

3.6 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2260					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4900e-003	0.0100	9.2700e-003	1.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	1.2766	1.2766	1.2000e-004	0.0000	1.2797
Total	0.2275	0.0100	9.2700e-003	1.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	1.2766	1.2766	1.2000e-004	0.0000	1.2797

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3.6 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.2000e-004	1.3100e-003	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3529	0.3529	1.0000e-005	0.0000	0.3532
Total	1.6000e-004	1.2000e-004	1.3100e-003	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3529	0.3529	1.0000e-005	0.0000	0.3532

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	0.2260					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4900e-003	0.0100	9.2700e-003	1.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	1.2766	1.2766	1.2000e-004	0.0000	1.2797
Total	0.2275	0.0100	9.2700e-003	1.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	1.2766	1.2766	1.2000e-004	0.0000	1.2797

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3.6 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.2000e-004	1.3100e-003	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3529	0.3529	1.0000e-005	0.0000	0.3532
Total	1.6000e-004	1.2000e-004	1.3100e-003	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3529	0.3529	1.0000e-005	0.0000	0.3532

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1105	0.4322	1.2813	3.7700e-003	0.3058	4.5100e-003	0.3103	0.0819	4.2500e-003	0.0862	0.0000	345.8777	345.8777	0.0170	0.0000	346.3032
Unmitigated	0.1311	0.5813	1.8152	5.8100e-003	0.4811	6.8400e-003	0.4880	0.1288	6.4500e-003	0.1353	0.0000	533.0974	533.0974	0.0246	0.0000	533.7123

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	371.28	371.28	371.28	1,268,720	806,463
Total	371.28	371.28	371.28	1,268,720	806,463

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.548103	0.044682	0.212159	0.122193	0.018321	0.005803	0.023836	0.015181	0.001595	0.001677	0.004786	0.000580	0.001085
Other Non-Asphalt Surfaces	0.548103	0.044682	0.212159	0.122193	0.018321	0.005803	0.023836	0.015181	0.001595	0.001677	0.004786	0.000580	0.001085
Parking Lot	0.548103	0.044682	0.212159	0.122193	0.018321	0.005803	0.023836	0.015181	0.001595	0.001677	0.004786	0.000580	0.001085
Single Family Housing	0.548103	0.044682	0.212159	0.122193	0.018321	0.005803	0.023836	0.015181	0.001595	0.001677	0.004786	0.000580	0.001085

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	235.7182	235.7182	4.4300e-003	9.2000e-004	236.1021
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	240.3078	240.3078	4.5200e-003	9.3000e-004	240.6991
NaturalGas Mitigated	6.5600e-003	0.0561	0.0239	3.6000e-004		4.5300e-003	4.5300e-003		4.5300e-003	4.5300e-003	0.0000	64.9293	64.9293	1.2400e-003	1.1900e-003	65.3151
NaturalGas Unmitigated	6.5600e-003	0.0561	0.0239	3.6000e-004		4.5300e-003	4.5300e-003		4.5300e-003	4.5300e-003	0.0000	64.9293	64.9293	1.2400e-003	1.1900e-003	65.3151

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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						
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.21673e+006	6.5600e-003	0.0561	0.0239	3.6000e-004		4.5300e-003	4.5300e-003		4.5300e-003	4.5300e-003	0.0000	64.9293	64.9293	1.2400e-003	1.1900e-003	65.3151	
Total		6.5600e-003	0.0561	0.0239	3.6000e-004		4.5300e-003	4.5300e-003		4.5300e-003	4.5300e-003	0.0000	64.9293	64.9293	1.2400e-003	1.1900e-003	65.3151	

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5.2 Energy by Land Use - Natural Gas

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						
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.21673e+006	6.5600e-003	0.0561	0.0239	3.6000e-004		4.5300e-003	4.5300e-003		4.5300e-003	4.5300e-003	0.0000	64.9293	64.9293	1.2400e-003	1.1900e-003	65.3151	
Total		6.5600e-003	0.0561	0.0239	3.6000e-004		4.5300e-003	4.5300e-003		4.5300e-003	4.5300e-003	0.0000	64.9293	64.9293	1.2400e-003	1.1900e-003	65.3151	

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	8800	6.1602	1.2000e-004	2.0000e-005	6.1702
Single Family Housing	334487	234.1476	4.4000e-003	9.1000e-004	234.5289
Total		240.3078	4.5200e-003	9.3000e-004	240.6991

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	8800	6.1602	1.2000e-004	2.0000e-005	6.1702
Single Family Housing	327931	229.5581	4.3100e-003	8.9000e-004	229.9319
Total		235.7182	4.4300e-003	9.1000e-004	236.1021

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2926	0.0120	0.4085	7.0000e-005		2.8000e-003	2.8000e-003		2.8000e-003	2.8000e-003	0.0000	9.0864	9.0864	8.1000e-004	1.5000e-004	9.1528
Unmitigated	0.2926	0.0120	0.4085	7.0000e-005		2.8000e-003	2.8000e-003		2.8000e-003	2.8000e-003	0.0000	9.0864	9.0864	8.1000e-004	1.5000e-004	9.1528

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	0.0226					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2566					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	8.5000e-004	7.2800e-003	3.1000e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	8.4288	8.4288	1.6000e-004	1.5000e-004	8.4789
Landscaping	0.0125	4.7000e-003	0.4054	2.0000e-005		2.2100e-003	2.2100e-003		2.2100e-003	2.2100e-003	0.0000	0.6576	0.6576	6.5000e-004	0.0000	0.6739
Total	0.2926	0.0120	0.4085	7.0000e-005		2.8000e-003	2.8000e-003		2.8000e-003	2.8000e-003	0.0000	9.0864	9.0864	8.1000e-004	1.5000e-004	9.1528

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0226					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2566					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	8.5000e-004	7.2800e-003	3.1000e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	8.4288	8.4288	1.6000e-004	1.5000e-004	8.4789
Landscaping	0.0125	4.7000e-003	0.4054	2.0000e-005		2.2100e-003	2.2100e-003		2.2100e-003	2.2100e-003	0.0000	0.6576	0.6576	6.5000e-004	0.0000	0.6739
Total	0.2926	0.0120	0.4085	7.0000e-005		2.8000e-003	2.8000e-003		2.8000e-003	2.8000e-003	0.0000	9.0864	9.0864	8.1000e-004	1.5000e-004	9.1528

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	31.6325	0.0668	1.6800e-003	33.8050
Unmitigated	36.4260	0.0835	2.0900e-003	39.1365

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.54101 / 1.60194	36.4260	0.0835	2.0900e-003	39.1365
Total		36.4260	0.0835	2.0900e-003	39.1365

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.03281 / 1.60194	31.6325	0.0668	1.6800e-003	33.8050
Total		31.6325	0.0668	1.6800e-003	33.8050

8.0 Waste Detail**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.6607	0.2754	0.0000	11.5466
Unmitigated	9.3214	0.5509	0.0000	23.0932

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	45.92	9.3214	0.5509	0.0000	23.0932
Total		9.3214	0.5509	0.0000	23.0932

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	22.96	4.6607	0.2754	0.0000	11.5466
Total		4.6607	0.2754	0.0000	11.5466

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

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Equipment Type	Number
----------------	--------

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	49.5600	0.0000	0.0000	49.5600

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	70	49.5600	0.0000	0.0000	49.5600
Total		49.5600	0.0000	0.0000	49.5600

6565 312 S Euclid Street Residential Project - Orange County, Summer

6565 312 S Euclid Street Residential Project
Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.47	Acre	0.47	20,473.20	0
Other Non-Asphalt Surfaces	0.35	Acre	0.35	15,354.90	0
Parking Lot	25.00	Space	0.22	10,000.00	0
Single Family Housing	39.00	Dwelling Unit	1.31	70,200.00	112

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2018
Utility Company	Anaheim Public Utilities				
CO2 Intensity (lb/MWhr)	1543.28	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

6565 312 S Euclid Street Residential Project - Orange County, Summer

Project Characteristics -

Land Use - 2.35 acres w/ 39 single-family dwelling units, 25 guest parking spaces, ~20% of site (0.47 acres) onsite roadways, ~15% of site as landscaping (0.3525 acres).

Construction Phase - Construction expected to start September 2017, CalEEMod default timing has been used.

Demolition - Existing buildings, including an office building, commercial shops, and a restaurant, totaling ~102,000 square feet.

Grading - Site is 2.35 acres. Per applicant 4,800 CY of import.

Vehicle Trips - Per TIA, residential dwelling unit trip generation rate of 9.52 trips/DU/day.

Woodstoves - SCAQMD Rule 445 prohibits the installation of wood burning devices in new developments.

Sequestration - Per applicant ~70 trees to be planted.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Downtown Anaheim is ~1.54 miles northeast and OCTA Route 37 stop Euclid-Broadway is ~0.02 miles west of the project site. 39 DU / 2.35 ac = 16.6 DU/acre.

Energy Mitigation - Energy-Star Appliances to be used on-site.

Water Mitigation - Per Green Building Standards.

Waste Mitigation - AB 939 requires all jurisdictions in CA to divert at least 50% of their waste away from landfills.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblFireplaces	NumberGas	33.15	35.10
tblFireplaces	NumberWood	1.95	0.00
tblGrading	AcresOfGrading	3.00	2.35
tblGrading	MaterialImported	0.00	4,800.00
tblLandUse	LotAcreage	12.66	1.31
tblSequestration	NumberOfNewTrees	0.00	70.00
tblVehicleTrips	ST_TR	9.91	9.52
tblVehicleTrips	SU_TR	8.62	9.52
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00

6565 312 S Euclid Street Residential Project - Orange County, Summer

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					
2017	3.5610	53.1601	18.1884	0.0848	7.9280	1.6932	9.3794	3.7622	1.5839	5.1030	0.0000	9,190.5826	9,190.5826	1.3813	0.0000	9,225.1156
2018	45.5305	22.2397	17.3986	0.0319	0.4455	1.2705	1.7160	0.1199	1.2175	1.3374	0.0000	3,040.6729	3,040.6729	0.5465	0.0000	3,054.1871
Maximum	45.5305	53.1601	18.1884	0.0848	7.9280	1.6932	9.3794	3.7622	1.5839	5.1030	0.0000	9,190.5826	9,190.5826	1.3813	0.0000	9,225.1156

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					
2017	3.5610	53.1601	18.1884	0.0848	4.0012	1.6932	5.4525	1.7156	1.5839	3.0564	0.0000	9,190.5826	9,190.5826	1.3813	0.0000	9,225.1156
2018	45.5305	22.2397	17.3986	0.0319	0.4455	1.2705	1.7160	0.1199	1.2175	1.3374	0.0000	3,040.6729	3,040.6729	0.5465	0.0000	3,054.1871
Maximum	45.5305	53.1601	18.1884	0.0848	4.0012	1.6932	5.4525	1.7156	1.5839	3.0564	0.0000	9,190.5826	9,190.5826	1.3813	0.0000	9,225.1156

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	46.90	0.00	35.39	52.72	0.00	31.78	0.00	0.00	0.00	0.00	0.00	0.00

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.6983	0.6199	3.4907	3.8900e-003		0.0648	0.0648		0.0648	0.0648	0.0000	749.0933	749.0933	0.0200	0.0136	753.6543
Energy	0.0360	0.3072	0.1307	1.9600e-003		0.0248	0.0248		0.0248	0.0248		392.1767	392.1767	7.5200e-003	7.1900e-003	394.5072
Mobile	0.7500	3.0294	10.2700	0.0330	2.6908	0.0376	2.7283	0.7195	0.0354	0.7549		3,340.1096	3,340.1096	0.1502		3,343.8637
Total	2.4842	3.9565	13.8915	0.0389	2.6908	0.1272	2.8180	0.7195	0.1250	0.8445	0.0000	4,481.3797	4,481.3797	0.1777	0.0208	4,492.0252

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.6983	0.6199	3.4907	3.8900e-003		0.0648	0.0648		0.0648	0.0648	0.0000	749.0933	749.0933	0.0200	0.0136	753.6543
Energy	0.0360	0.3072	0.1307	1.9600e-003		0.0248	0.0248		0.0248	0.0248		392.1767	392.1767	7.5200e-003	7.1900e-003	394.5072
Mobile	0.6355	2.2705	7.1435	0.0214	1.7104	0.0247	1.7351	0.4574	0.0233	0.4807		2,166.8487	2,166.8487	0.1033		2,169.4303
Total	2.3698	3.1976	10.7650	0.0273	1.7104	0.1143	1.8247	0.4574	0.1129	0.5703	0.0000	3,308.1188	3,308.1188	0.1308	0.0208	3,317.5917

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	4.61	19.18	22.51	29.87	36.44	10.08	35.25	36.43	9.68	32.47	0.00	26.18	26.18	26.40	0.00	26.14

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2017	9/28/2017	5	20	
2	Grading	Grading	9/29/2017	10/6/2017	5	6	
3	Building Construction	Building Construction	10/7/2017	8/10/2018	5	220	
4	Paving	Paving	8/11/2018	8/24/2018	5	10	
5	Architectural Coating	Architectural Coating	8/25/2018	9/7/2018	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.35

Acres of Paving: 1.04

Residential Indoor: 142,155; Residential Outdoor: 47,385; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,750 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	7.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	33.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	464.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	475.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.0202	0.0000	5.0202	0.7601	0.0000	0.7601			0.0000			0.0000
Off-Road	2.7625	26.7594	15.5573	0.0241		1.6477	1.6477		1.5404	1.5404		2,421.4229	2,421.4229	0.6125		2,436.7347
Total	2.7625	26.7594	15.5573	0.0241	5.0202	1.6477	6.6679	0.7601	1.5404	2.3005		2,421.4229	2,421.4229	0.6125		2,436.7347

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3.2 Demolition - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2342	7.9010	1.7510	0.0185	0.4041	0.0446	0.4486	0.1106	0.0426	0.1533		2,039.4303	2,039.4303	0.2141		2,044.7835
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	0.0645	0.0451	0.5736	1.5600e-003	0.1453	9.7000e-004	0.1463	0.0385	8.9000e-004	0.0394		154.8789	154.8789	4.5000e-003		154.9915
Total	0.2987	7.9461	2.3246	0.0200	0.5494	0.0455	0.5949	0.1492	0.0435	0.1927		2,194.3092	2,194.3092	0.2186		2,199.7750

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					1.9579	0.0000	1.9579	0.2964	0.0000	0.2964			0.0000			0.0000
Off-Road	2.7625	26.7594	15.5573	0.0241		1.6477	1.6477		1.5404	1.5404	0.0000	2,421.4229	2,421.4229	0.6125		2,436.7347
Total	2.7625	26.7594	15.5573	0.0241	1.9579	1.6477	3.6055	0.2964	1.5404	1.8368	0.0000	2,421.4229	2,421.4229	0.6125		2,436.7347

6565 312 S Euclid Street Residential Project - Orange County, Summer

3.2 Demolition - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2342	7.9010	1.7510	0.0185	0.4041	0.0446	0.4486	0.1106	0.0426	0.1533		2,039.4303	2,039.4303	0.2141		2,044.7835
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	0.0645	0.0451	0.5736	1.5600e-003	0.1453	9.7000e-004	0.1463	0.0385	8.9000e-004	0.0394		154.8789	154.8789	4.5000e-003		154.9915
Total	0.2987	7.9461	2.3246	0.0200	0.5494	0.0455	0.5949	0.1492	0.0435	0.1927		2,194.3092	2,194.3092	0.2186		2,199.7750

3.3 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.4375	0.0000	6.4375	3.3551	0.0000	3.3551			0.0000			0.0000
Off-Road	2.3212	26.1643	10.7753	0.0206		1.2985	1.2985		1.1947	1.1947		2,112.1822	2,112.1822	0.6472		2,128.3614
Total	2.3212	26.1643	10.7753	0.0206	6.4375	1.2985	7.7360	3.3551	1.1947	4.5497		2,112.1822	2,112.1822	0.6472		2,128.3614

6565 312 S Euclid Street Residential Project - Orange County, Summer

3.3 Grading - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.7993	26.9610	5.9751	0.0630	1.3788	0.1521	1.5309	0.3775	0.1455	0.5230		6,959.2628	6,959.2628	0.7307		6,977.5299
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	0.0496	0.0347	0.4412	1.2000e-003	0.1118	7.4000e-004	0.1125	0.0296	6.9000e-004	0.0303		119.1376	119.1376	3.4600e-003		119.2242
Total	0.8489	26.9958	6.4163	0.0642	1.4906	0.1528	1.6434	0.4071	0.1462	0.5533		7,078.4004	7,078.4004	0.7341		7,096.7541

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5106	0.0000	2.5106	1.3085	0.0000	1.3085			0.0000			0.0000
Off-Road	2.3212	26.1643	10.7753	0.0206		1.2985	1.2985		1.1947	1.1947	0.0000	2,112.1822	2,112.1822	0.6472		2,128.3614
Total	2.3212	26.1643	10.7753	0.0206	2.5106	1.2985	3.8092	1.3085	1.1947	2.5031	0.0000	2,112.1822	2,112.1822	0.6472		2,128.3614

6565 312 S Euclid Street Residential Project - Orange County, Summer

3.3 Grading - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.7993	26.9610	5.9751	0.0630	1.3788	0.1521	1.5309	0.3775	0.1455	0.5230		6,959.2628	6,959.2628	0.7307		6,977.5299
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	0.0496	0.0347	0.4412	1.2000e-003	0.1118	7.4000e-004	0.1125	0.0296	6.9000e-004	0.0303		119.1376	119.1376	3.4600e-003		119.2242
Total	0.8489	26.9958	6.4163	0.0642	1.4906	0.1528	1.6434	0.4071	0.1462	0.5533		7,078.4004	7,078.4004	0.7341		7,096.7541

3.4 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3418	23.0287	16.3102	0.0250		1.4697	1.4697		1.4068	1.4068		2,347.6211	2,347.6211	0.5228		2,360.6922
Total	3.3418	23.0287	16.3102	0.0250		1.4697	1.4697		1.4068	1.4068		2,347.6211	2,347.6211	0.5228		2,360.6922

6565 312 S Euclid Street Residential Project - Orange County, Summer

3.4 Building Construction - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0554	1.5268	0.4222	3.0500e-003	0.0767	0.0133	0.0900	0.0221	0.0127	0.0348		330.5916	330.5916	0.0298		331.3364
Worker	0.1637	0.1146	1.4560	3.9500e-003	0.3689	2.4500e-003	0.3713	0.0978	2.2600e-003	0.1001		393.1542	393.1542	0.0114		393.4400
Total	0.2191	1.6414	1.8782	7.0000e-003	0.4455	0.0158	0.4613	0.1199	0.0150	0.1349		723.7458	723.7458	0.0412		724.7764

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	3.3418	23.0287	16.3102	0.0250		1.4697	1.4697		1.4068	1.4068	0.0000	2,347.6211	2,347.6211	0.5228		2,360.6922
Total	3.3418	23.0287	16.3102	0.0250		1.4697	1.4697		1.4068	1.4068	0.0000	2,347.6211	2,347.6211	0.5228		2,360.6922

6565 312 S Euclid Street Residential Project - Orange County, Summer

3.4 Building Construction - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0554	1.5268	0.4222	3.0500e-003	0.0767	0.0133	0.0900	0.0221	0.0127	0.0348		330.5916	330.5916	0.0298		331.3364
Worker	0.1637	0.1146	1.4560	3.9500e-003	0.3689	2.4500e-003	0.3713	0.0978	2.2600e-003	0.1001		393.1542	393.1542	0.0114		393.4400
Total	0.2191	1.6414	1.8782	7.0000e-003	0.4455	0.0158	0.4613	0.1199	0.0150	0.1349		723.7458	723.7458	0.0412		724.7764

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051		2,329.7759	2,329.7759	0.5019		2,342.3232
Total	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051		2,329.7759	2,329.7759	0.5019		2,342.3232

6565 312 S Euclid Street Residential Project - Orange County, Summer

3.4 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0486	1.4315	0.3841	3.0300e-003	0.0767	0.0106	0.0873	0.0221	0.0101	0.0322		329.1940	329.1940	0.0286		329.9082
Worker	0.1478	0.1005	1.2963	3.8300e-003	0.3689	2.4400e-003	0.3713	0.0978	2.2400e-003	0.1001		381.7030	381.7030	0.0101		381.9557
Total	0.1964	1.5320	1.6803	6.8600e-003	0.4455	0.0130	0.4586	0.1199	0.0124	0.1323		710.8970	710.8970	0.0387		711.8639

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	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051	0.0000	2,329.7759	2,329.7759	0.5019		2,342.3232
Total	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051	0.0000	2,329.7759	2,329.7759	0.5019		2,342.3232

6565 312 S Euclid Street Residential Project - Orange County, Summer

3.4 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0486	1.4315	0.3841	3.0300e-003	0.0767	0.0106	0.0873	0.0221	0.0101	0.0322		329.1940	329.1940	0.0286		329.9082
Worker	0.1478	0.1005	1.2963	3.8300e-003	0.3689	2.4400e-003	0.3713	0.0978	2.2400e-003	0.1001		381.7030	381.7030	0.0101		381.9557
Total	0.1964	1.5320	1.6803	6.8600e-003	0.4455	0.0130	0.4586	0.1199	0.0124	0.1323		710.8970	710.8970	0.0387		711.8639

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836		1,774.2430	1,774.2430	0.5419		1,787.7896
Paving	0.1808					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5854	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836		1,774.2430	1,774.2430	0.5419		1,787.7896

6565 312 S Euclid Street Residential Project - Orange County, Summer

3.5 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0672	0.0457	0.5892	1.7400e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		173.5014	173.5014	4.5900e-003		173.6162
Total	0.0672	0.0457	0.5892	1.7400e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		173.5014	173.5014	4.5900e-003		173.6162

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	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836	0.0000	1,774.2430	1,774.2430	0.5419		1,787.7896
Paving	0.1808					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5854	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836	0.0000	1,774.2430	1,774.2430	0.5419		1,787.7896

6565 312 S Euclid Street Residential Project - Orange County, Summer

3.5 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0672	0.0457	0.5892	1.7400e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		173.5014	173.5014	4.5900e-003		173.6162
Total	0.0672	0.0457	0.5892	1.7400e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		173.5014	173.5014	4.5900e-003		173.6162

3.6 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	45.2005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	45.4992	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

6565 312 S Euclid Street Residential Project - Orange County, Summer

3.6 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0313	0.0213	0.2750	8.1000e-004	0.0782	5.2000e-004	0.0788	0.0208	4.8000e-004	0.0212		80.9673	80.9673	2.1400e-003		81.0209
Total	0.0313	0.0213	0.2750	8.1000e-004	0.0782	5.2000e-004	0.0788	0.0208	4.8000e-004	0.0212		80.9673	80.9673	2.1400e-003		81.0209

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	45.2005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	45.4992	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

6565 312 S Euclid Street Residential Project - Orange County, Summer

3.6 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0313	0.0213	0.2750	8.1000e-004	0.0782	5.2000e-004	0.0788	0.0208	4.8000e-004	0.0212		80.9673	80.9673	2.1400e-003		81.0209
Total	0.0313	0.0213	0.2750	8.1000e-004	0.0782	5.2000e-004	0.0788	0.0208	4.8000e-004	0.0212		80.9673	80.9673	2.1400e-003		81.0209

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

6565 312 S Euclid Street Residential Project - Orange County, Summer

	ROG	NOx	CO	SO2	Fugitive 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	0.6355	2.2705	7.1435	0.0214	1.7104	0.0247	1.7351	0.4574	0.0233	0.4807		2,166.8487	2,166.8487	0.1033		2,169.4303
Unmitigated	0.7500	3.0294	10.2700	0.0330	2.6908	0.0376	2.7283	0.7195	0.0354	0.7549		3,340.1096	3,340.1096	0.1502		3,343.8637

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	371.28	371.28	371.28	1,268,720	806,463
Total	371.28	371.28	371.28	1,268,720	806,463

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

6565 312 S Euclid Street Residential Project - Orange County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.548103	0.044682	0.212159	0.122193	0.018321	0.005803	0.023836	0.015181	0.001595	0.001677	0.004786	0.000580	0.001085
Other Non-Asphalt Surfaces	0.548103	0.044682	0.212159	0.122193	0.018321	0.005803	0.023836	0.015181	0.001595	0.001677	0.004786	0.000580	0.001085
Parking Lot	0.548103	0.044682	0.212159	0.122193	0.018321	0.005803	0.023836	0.015181	0.001595	0.001677	0.004786	0.000580	0.001085
Single Family Housing	0.548103	0.044682	0.212159	0.122193	0.018321	0.005803	0.023836	0.015181	0.001595	0.001677	0.004786	0.000580	0.001085

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0360	0.3072	0.1307	1.9600e-003		0.0248	0.0248		0.0248	0.0248		392.1767	392.1767	7.5200e-003	7.1900e-003	394.5072
NaturalGas Unmitigated	0.0360	0.3072	0.1307	1.9600e-003		0.0248	0.0248		0.0248	0.0248		392.1767	392.1767	7.5200e-003	7.1900e-003	394.5072

6565 312 S Euclid Street Residential Project - Orange County, Summer

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						
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3333.5	0.0360	0.3072	0.1307	1.9600e-003		0.0248	0.0248		0.0248	0.0248		392.1767	392.1767	7.5200e-003	7.1900e-003	394.5072	
Total		0.0360	0.3072	0.1307	1.9600e-003		0.0248	0.0248		0.0248	0.0248		392.1767	392.1767	7.5200e-003	7.1900e-003	394.5072	

6565 312 S Euclid Street Residential Project - Orange County, Summer

5.2 Energy by Land Use - Natural Gas

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						
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3.3335	0.0360	0.3072	0.1307	1.9600e-003		0.0248	0.0248		0.0248	0.0248		392.1767	392.1767	7.5200e-003	7.1900e-003	394.5072	
Total		0.0360	0.3072	0.1307	1.9600e-003		0.0248	0.0248		0.0248	0.0248		392.1767	392.1767	7.5200e-003	7.1900e-003	394.5072	

6.0 Area Detail

6.1 Mitigation Measures Area

6565 312 S Euclid Street Residential Project - Orange County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.6983	0.6199	3.4907	3.8900e-003		0.0648	0.0648		0.0648	0.0648	0.0000	749.0933	749.0933	0.0200	0.0136	753.6543
Unmitigated	1.6983	0.6199	3.4907	3.8900e-003		0.0648	0.0648		0.0648	0.0648	0.0000	749.0933	749.0933	0.0200	0.0136	753.6543

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	0.1238					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0681	0.5823	0.2478	3.7200e-003		0.0471	0.0471		0.0471	0.0471	0.0000	743.2941	743.2941	0.0143	0.0136	747.7111
Landscaping	0.1001	0.0376	3.2430	1.7000e-004		0.0177	0.0177		0.0177	0.0177		5.7992	5.7992	5.7600e-003		5.9431
Total	1.6983	0.6199	3.4907	3.8900e-003		0.0648	0.0648		0.0648	0.0648	0.0000	749.0933	749.0933	0.0200	0.0136	753.6543

6565 312 S Euclid Street Residential Project - Orange County, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1238					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0681	0.5823	0.2478	3.7200e-003		0.0471	0.0471		0.0471	0.0471	0.0000	743.2941	743.2941	0.0143	0.0136	747.7111
Landscaping	0.1001	0.0376	3.2430	1.7000e-004		0.0177	0.0177		0.0177	0.0177		5.7992	5.7992	5.7600e-003		5.9431
Total	1.6983	0.6199	3.4907	3.8900e-003		0.0648	0.0648		0.0648	0.0648	0.0000	749.0933	749.0933	0.0200	0.0136	753.6543

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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6565 312 S Euclid Street Residential Project - Orange County, Summer

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

6565 312 S Euclid Street Residential Project - Orange County, Winter

6565 312 S Euclid Street Residential Project
Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.47	Acre	0.47	20,473.20	0
Other Non-Asphalt Surfaces	0.35	Acre	0.35	15,354.90	0
Parking Lot	25.00	Space	0.22	10,000.00	0
Single Family Housing	39.00	Dwelling Unit	1.31	70,200.00	112

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2018
Utility Company	Anaheim Public Utilities				
CO2 Intensity (lb/MWhr)	1543.28	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

6565 312 S Euclid Street Residential Project - Orange County, Winter

Project Characteristics -

Land Use - 2.35 acres w/ 39 single-family dwelling units, 25 guest parking spaces, ~20% of site (0.47 acres) onsite roadways, ~15% of site as landscaping (0.3525 acres).

Construction Phase - Construction expected to start September 2017, CalEEMod default timing has been used.

Demolition - Existing buildings, including an office building, commercial shops, and a restaurant, totaling ~102,000 square feet.

Grading - Site is 2.35 acres. Per applicant 4,800 CY of import.

Vehicle Trips - Per TIA, residential dwelling unit trip generation rate of 9.52 trips/DU/day.

Woodstoves - SCAQMD Rule 445 prohibits the installation of wood burning devices in new developments.

Sequestration - Per applicant ~70 trees to be planted.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Downtown Anaheim is ~1.54 miles northeast and OCTA Route 37 stop Euclid-Broadway is ~0.02 miles west of the project site. 39 DU / 2.35 ac = 16.6 DU/acre.

Energy Mitigation - Energy-Star Appliances to be used on-site.

Water Mitigation - Per Green Building Standards.

Waste Mitigation - AB 939 requires all jurisdictions in CA to divert at least 50% of their waste away from landfills.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblFireplaces	NumberGas	33.15	35.10
tblFireplaces	NumberWood	1.95	0.00
tblGrading	AcresOfGrading	3.00	2.35
tblGrading	MaterialImported	0.00	4,800.00
tblLandUse	LotAcreage	12.66	1.31
tblSequestration	NumberOfNewTrees	0.00	70.00
tblVehicleTrips	ST_TR	9.91	9.52
tblVehicleTrips	SU_TR	8.62	9.52
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00

6565 312 S Euclid Street Residential Project - Orange County, Winter

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					
2017	3.5838	53.5573	18.1297	0.0838	7.9280	1.6940	9.3821	3.7622	1.5847	5.1057	0.0000	9,085.456 4	9,085.456 4	1.4019	0.0000	9,120.502 7
2018	45.5345	22.2519	17.3435	0.0316	0.4455	1.2707	1.7162	0.1199	1.2177	1.3375	0.0000	3,012.316 7	3,012.316 7	0.5462	0.0000	3,025.857 0
Maximum	45.5345	53.5573	18.1297	0.0838	7.9280	1.6940	9.3821	3.7622	1.5847	5.1057	0.0000	9,085.456 4	9,085.456 4	1.4019	0.0000	9,120.502 7

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					
2017	3.5838	53.5573	18.1297	0.0838	4.0012	1.6940	5.4553	1.7156	1.5847	3.0591	0.0000	9,085.456 4	9,085.456 4	1.4019	0.0000	9,120.502 7
2018	45.5345	22.2519	17.3435	0.0316	0.4455	1.2707	1.7162	0.1199	1.2177	1.3375	0.0000	3,012.316 7	3,012.316 7	0.5462	0.0000	3,025.857 0
Maximum	45.5345	53.5573	18.1297	0.0838	4.0012	1.6940	5.4553	1.7156	1.5847	3.0591	0.0000	9,085.456 4	9,085.456 4	1.4019	0.0000	9,120.502 7

6565 312 S Euclid Street Residential Project - Orange County, Winter

	ROG	NOx	CO	SO2	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	46.90	0.00	35.38	52.72	0.00	31.76	0.00	0.00	0.00	0.00	0.00	0.00

6565 312 S Euclid Street Residential Project - Orange County, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.6983	0.6199	3.4907	3.8900e-003		0.0648	0.0648		0.0648	0.0648	0.0000	749.0933	749.0933	0.0200	0.0136	753.6543
Energy	0.0360	0.3072	0.1307	1.9600e-003		0.0248	0.0248		0.0248	0.0248		392.1767	392.1767	7.5200e-003	7.1900e-003	394.5072
Mobile	0.7420	3.1372	9.8435	0.0315	2.6908	0.0378	2.7285	0.7195	0.0356	0.7551		3,189.7030	3,189.7030	0.1492		3,193.4328
Total	2.4763	4.0643	13.4650	0.0374	2.6908	0.1274	2.8182	0.7195	0.1252	0.8447	0.0000	4,330.9730	4,330.9730	0.1767	0.0208	4,341.5942

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.6983	0.6199	3.4907	3.8900e-003		0.0648	0.0648		0.0648	0.0648	0.0000	749.0933	749.0933	0.0200	0.0136	753.6543
Energy	0.0360	0.3072	0.1307	1.9600e-003		0.0248	0.0248		0.0248	0.0248		392.1767	392.1767	7.5200e-003	7.1900e-003	394.5072
Mobile	0.6298	2.3347	6.9815	0.0204	1.7104	0.0249	1.7353	0.4574	0.0235	0.4809		2,068.4477	2,068.4477	0.1036		2,071.0377
Total	2.3640	3.2618	10.6030	0.0263	1.7104	0.1145	1.8249	0.4574	0.1131	0.5705	0.0000	3,209.7177	3,209.7177	0.1311	0.0208	3,219.1992

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	4.53	19.74	21.25	29.63	36.44	10.07	35.24	36.43	9.66	32.47	0.00	25.89	25.89	25.80	0.00	25.85

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	9/1/2017	9/28/2017	5	20	
2	Grading	Grading	9/29/2017	10/6/2017	5	6	
3	Building Construction	Building Construction	10/7/2017	8/10/2018	5	220	
4	Paving	Paving	8/11/2018	8/24/2018	5	10	
5	Architectural Coating	Architectural Coating	8/25/2018	9/7/2018	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.35

Acres of Paving: 1.04

Residential Indoor: 142,155; Residential Outdoor: 47,385; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,750 (Architectural Coating – sqft)

OffRoad Equipment

6565 312 S Euclid Street Residential Project - Orange County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	7.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	33.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	464.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	475.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

6565 312 S Euclid Street Residential Project - Orange County, Winter

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.0202	0.0000	5.0202	0.7601	0.0000	0.7601			0.0000			0.0000
Off-Road	2.7625	26.7594	15.5573	0.0241		1.6477	1.6477		1.5404	1.5404		2,421.4229	2,421.4229	0.6125		2,436.7347
Total	2.7625	26.7594	15.5573	0.0241	5.0202	1.6477	6.6679	0.7601	1.5404	2.3005		2,421.4229	2,421.4229	0.6125		2,436.7347

6565 312 S Euclid Street Residential Project - Orange County, Winter

3.2 Demolition - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2404	8.0164	1.8638	0.0182	0.4041	0.0454	0.4494	0.1106	0.0434	0.1540		2,010.4885	2,010.4885	0.2202		2,015.9934
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	0.0726	0.0496	0.5345	1.4700e-003	0.1453	9.7000e-004	0.1463	0.0385	8.9000e-004	0.0394		146.6025	146.6025	4.2900e-003		146.7097
Total	0.3129	8.0660	2.3983	0.0197	0.5494	0.0463	0.5957	0.1492	0.0443	0.1935		2,157.0910	2,157.0910	0.2245		2,162.7031

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					1.9579	0.0000	1.9579	0.2964	0.0000	0.2964			0.0000			0.0000
Off-Road	2.7625	26.7594	15.5573	0.0241		1.6477	1.6477		1.5404	1.5404	0.0000	2,421.4229	2,421.4229	0.6125		2,436.7347
Total	2.7625	26.7594	15.5573	0.0241	1.9579	1.6477	3.6055	0.2964	1.5404	1.8368	0.0000	2,421.4229	2,421.4229	0.6125		2,436.7347

6565 312 S Euclid Street Residential Project - Orange County, Winter

3.2 Demolition - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2404	8.0164	1.8638	0.0182	0.4041	0.0454	0.4494	0.1106	0.0434	0.1540		2,010.4885	2,010.4885	0.2202		2,015.9934
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	0.0726	0.0496	0.5345	1.4700e-003	0.1453	9.7000e-004	0.1463	0.0385	8.9000e-004	0.0394		146.6025	146.6025	4.2900e-003		146.7097
Total	0.3129	8.0660	2.3983	0.0197	0.5494	0.0463	0.5957	0.1492	0.0443	0.1935		2,157.0910	2,157.0910	0.2245		2,162.7031

3.3 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.4375	0.0000	6.4375	3.3551	0.0000	3.3551			0.0000			0.0000
Off-Road	2.3212	26.1643	10.7753	0.0206		1.2985	1.2985		1.1947	1.1947		2,112.1822	2,112.1822	0.6472		2,128.3614
Total	2.3212	26.1643	10.7753	0.0206	6.4375	1.2985	7.7360	3.3551	1.1947	4.5497		2,112.1822	2,112.1822	0.6472		2,128.3614

6565 312 S Euclid Street Residential Project - Orange County, Winter

3.3 Grading - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8202	27.3548	6.3598	0.0621	1.3788	0.1548	1.5336	0.3775	0.1481	0.5256		6,860.5030	6,860.5030	0.7514		6,879.2877
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	0.0558	0.0382	0.4112	1.1300e-003	0.1118	7.4000e-004	0.1125	0.0296	6.9000e-004	0.0303		112.7711	112.7711	3.3000e-003		112.8536
Total	0.8760	27.3930	6.7710	0.0632	1.4906	0.1556	1.6461	0.4071	0.1488	0.5559		6,973.2741	6,973.2741	0.7547		6,992.1413

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5106	0.0000	2.5106	1.3085	0.0000	1.3085			0.0000			0.0000
Off-Road	2.3212	26.1643	10.7753	0.0206		1.2985	1.2985		1.1947	1.1947	0.0000	2,112.1822	2,112.1822	0.6472		2,128.3614
Total	2.3212	26.1643	10.7753	0.0206	2.5106	1.2985	3.8092	1.3085	1.1947	2.5031	0.0000	2,112.1822	2,112.1822	0.6472		2,128.3614

6565 312 S Euclid Street Residential Project - Orange County, Winter

3.3 Grading - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8202	27.3548	6.3598	0.0621	1.3788	0.1548	1.5336	0.3775	0.1481	0.5256		6,860.5030	6,860.5030	0.7514		6,879.2877
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	0.0558	0.0382	0.4112	1.1300e-003	0.1118	7.4000e-004	0.1125	0.0296	6.9000e-004	0.0303		112.7711	112.7711	3.3000e-003		112.8536
Total	0.8760	27.3930	6.7710	0.0632	1.4906	0.1556	1.6461	0.4071	0.1488	0.5559		6,973.2741	6,973.2741	0.7547		6,992.1413

3.4 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3418	23.0287	16.3102	0.0250		1.4697	1.4697		1.4068	1.4068		2,347.6211	2,347.6211	0.5228		2,360.6922
Total	3.3418	23.0287	16.3102	0.0250		1.4697	1.4697		1.4068	1.4068		2,347.6211	2,347.6211	0.5228		2,360.6922

6565 312 S Euclid Street Residential Project - Orange County, Winter

3.4 Building Construction - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0578	1.5312	0.4626	2.9800e-003	0.0767	0.0135	0.0902	0.0221	0.0130	0.0350		322.8484	322.8484	0.0314		323.6343
Worker	0.1842	0.1260	1.3569	3.7400e-003	0.3689	2.4500e-003	0.3713	0.0978	2.2600e-003	0.1001		372.1448	372.1448	0.0109		372.4170
Total	0.2420	1.6571	1.8195	6.7200e-003	0.4455	0.0160	0.4615	0.1199	0.0152	0.1351		694.9932	694.9932	0.0423		696.0513

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	3.3418	23.0287	16.3102	0.0250		1.4697	1.4697		1.4068	1.4068	0.0000	2,347.6211	2,347.6211	0.5228		2,360.6922
Total	3.3418	23.0287	16.3102	0.0250		1.4697	1.4697		1.4068	1.4068	0.0000	2,347.6211	2,347.6211	0.5228		2,360.6922

6565 312 S Euclid Street Residential Project - Orange County, Winter

3.4 Building Construction - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0578	1.5312	0.4626	2.9800e-003	0.0767	0.0135	0.0902	0.0221	0.0130	0.0350		322.8484	322.8484	0.0314		323.6343
Worker	0.1842	0.1260	1.3569	3.7400e-003	0.3689	2.4500e-003	0.3713	0.0978	2.2600e-003	0.1001		372.1448	372.1448	0.0109		372.4170
Total	0.2420	1.6571	1.8195	6.7200e-003	0.4455	0.0160	0.4615	0.1199	0.0152	0.1351		694.9932	694.9932	0.0423		696.0513

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051		2,329.7759	2,329.7759	0.5019		2,342.3232
Total	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051		2,329.7759	2,329.7759	0.5019		2,342.3232

6565 312 S Euclid Street Residential Project - Orange County, Winter

3.4 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0507	1.4338	0.4216	2.9600e-003	0.0767	0.0108	0.0875	0.0221	0.0103	0.0324		321.2577	321.2577	0.0301		322.0105
Worker	0.1665	0.1104	1.2036	3.6300e-003	0.3689	2.4400e-003	0.3713	0.0978	2.2400e-003	0.1001		361.2831	361.2831	9.6000e-003		361.5233
Total	0.2172	1.5442	1.6252	6.5900e-003	0.4455	0.0132	0.4588	0.1199	0.0126	0.1325		682.5408	682.5408	0.0397		683.5338

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	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051	0.0000	2,329.7759	2,329.7759	0.5019		2,342.3232
Total	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051	0.0000	2,329.7759	2,329.7759	0.5019		2,342.3232

6565 312 S Euclid Street Residential Project - Orange County, Winter

3.4 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0507	1.4338	0.4216	2.9600e-003	0.0767	0.0108	0.0875	0.0221	0.0103	0.0324		321.2577	321.2577	0.0301		322.0105
Worker	0.1665	0.1104	1.2036	3.6300e-003	0.3689	2.4400e-003	0.3713	0.0978	2.2400e-003	0.1001		361.2831	361.2831	9.6000e-003		361.5233
Total	0.2172	1.5442	1.6252	6.5900e-003	0.4455	0.0132	0.4588	0.1199	0.0126	0.1325		682.5408	682.5408	0.0397		683.5338

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836		1,774.2430	1,774.2430	0.5419		1,787.7896
Paving	0.1808					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5854	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836		1,774.2430	1,774.2430	0.5419		1,787.7896

6565 312 S Euclid Street Residential Project - Orange County, Winter

3.5 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0757	0.0502	0.5471	1.6500e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		164.2196	164.2196	4.3700e-003		164.3288
Total	0.0757	0.0502	0.5471	1.6500e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		164.2196	164.2196	4.3700e-003		164.3288

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	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836	0.0000	1,774.2430	1,774.2430	0.5419		1,787.7896
Paving	0.1808					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5854	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836	0.0000	1,774.2430	1,774.2430	0.5419		1,787.7896

6565 312 S Euclid Street Residential Project - Orange County, Winter

3.5 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0757	0.0502	0.5471	1.6500e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		164.2196	164.2196	4.3700e-003		164.3288
Total	0.0757	0.0502	0.5471	1.6500e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		164.2196	164.2196	4.3700e-003		164.3288

3.6 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	45.2005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	45.4992	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

6565 312 S Euclid Street Residential Project - Orange County, Winter

3.6 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0353	0.0234	0.2553	7.7000e-004	0.0782	5.2000e-004	0.0788	0.0208	4.8000e-004	0.0212		76.6358	76.6358	2.0400e-003		76.6868
Total	0.0353	0.0234	0.2553	7.7000e-004	0.0782	5.2000e-004	0.0788	0.0208	4.8000e-004	0.0212		76.6358	76.6358	2.0400e-003		76.6868

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	45.2005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	45.4992	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

6565 312 S Euclid Street Residential Project - Orange County, Winter

3.6 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0353	0.0234	0.2553	7.7000e-004	0.0782	5.2000e-004	0.0788	0.0208	4.8000e-004	0.0212		76.6358	76.6358	2.0400e-003		76.6868
Total	0.0353	0.0234	0.2553	7.7000e-004	0.0782	5.2000e-004	0.0788	0.0208	4.8000e-004	0.0212		76.6358	76.6358	2.0400e-003		76.6868

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

6565 312 S Euclid Street Residential Project - Orange County, Winter

	ROG	NOx	CO	SO2	Fugitive 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	0.6298	2.3347	6.9815	0.0204	1.7104	0.0249	1.7353	0.4574	0.0235	0.4809		2,068.4477	2,068.4477	0.1036		2,071.0377
Unmitigated	0.7420	3.1372	9.8435	0.0315	2.6908	0.0378	2.7285	0.7195	0.0356	0.7551		3,189.7030	3,189.7030	0.1492		3,193.4328

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	371.28	371.28	371.28	1,268,720	806,463
Total	371.28	371.28	371.28	1,268,720	806,463

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.548103	0.044682	0.212159	0.122193	0.018321	0.005803	0.023836	0.015181	0.001595	0.001677	0.004786	0.000580	0.001085
Other Non-Asphalt Surfaces	0.548103	0.044682	0.212159	0.122193	0.018321	0.005803	0.023836	0.015181	0.001595	0.001677	0.004786	0.000580	0.001085
Parking Lot	0.548103	0.044682	0.212159	0.122193	0.018321	0.005803	0.023836	0.015181	0.001595	0.001677	0.004786	0.000580	0.001085
Single Family Housing	0.548103	0.044682	0.212159	0.122193	0.018321	0.005803	0.023836	0.015181	0.001595	0.001677	0.004786	0.000580	0.001085

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0360	0.3072	0.1307	1.9600e-003		0.0248	0.0248		0.0248	0.0248		392.1767	392.1767	7.5200e-003	7.1900e-003	394.5072
NaturalGas Unmitigated	0.0360	0.3072	0.1307	1.9600e-003		0.0248	0.0248		0.0248	0.0248		392.1767	392.1767	7.5200e-003	7.1900e-003	394.5072

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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						
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3333.5	0.0360	0.3072	0.1307	1.9600e-003		0.0248	0.0248		0.0248	0.0248		392.1767	392.1767	7.5200e-003	7.1900e-003	394.5072	
Total		0.0360	0.3072	0.1307	1.9600e-003		0.0248	0.0248		0.0248	0.0248		392.1767	392.1767	7.5200e-003	7.1900e-003	394.5072	

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5.2 Energy by Land Use - Natural Gas

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3.3335	0.0360	0.3072	0.1307	1.9600e-003		0.0248	0.0248		0.0248	0.0248		392.1767	392.1767	7.5200e-003	7.1900e-003	394.5072
Total		0.0360	0.3072	0.1307	1.9600e-003		0.0248	0.0248		0.0248	0.0248		392.1767	392.1767	7.5200e-003	7.1900e-003	394.5072

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.6983	0.6199	3.4907	3.8900e-003		0.0648	0.0648		0.0648	0.0648	0.0000	749.0933	749.0933	0.0200	0.0136	753.6543
Unmitigated	1.6983	0.6199	3.4907	3.8900e-003		0.0648	0.0648		0.0648	0.0648	0.0000	749.0933	749.0933	0.0200	0.0136	753.6543

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	0.1238					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0681	0.5823	0.2478	3.7200e-003		0.0471	0.0471		0.0471	0.0471	0.0000	743.2941	743.2941	0.0143	0.0136	747.7111
Landscaping	0.1001	0.0376	3.2430	1.7000e-004		0.0177	0.0177		0.0177	0.0177		5.7992	5.7992	5.7600e-003		5.9431
Total	1.6983	0.6199	3.4907	3.8900e-003		0.0648	0.0648		0.0648	0.0648	0.0000	749.0933	749.0933	0.0200	0.0136	753.6543

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1238					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0681	0.5823	0.2478	3.7200e-003		0.0471	0.0471		0.0471	0.0471	0.0000	743.2941	743.2941	0.0143	0.0136	747.7111
Landscaping	0.1001	0.0376	3.2430	1.7000e-004		0.0177	0.0177		0.0177	0.0177		5.7992	5.7992	5.7600e-003		5.9431
Total	1.6983	0.6199	3.4907	3.8900e-003		0.0648	0.0648		0.0648	0.0648	0.0000	749.0933	749.0933	0.0200	0.0136	753.6543

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
