

APPENDIX J
AIR QUALITY METHODOLOGY AND MODELING

Modeling Methodology

Air quality impacts can result from the construction and operation of the project. Construction impacts are temporary and result from fugitive dust, equipment exhaust, and indirect effects associated with construction workers and deliveries. Operational impacts can occur on two levels: regional impacts resulting from growth-inducing development, or local hot-spot effects stemming from sensitive receivers being placed close to highly congested roadways. In the case of this project, operational impacts are primarily due to emissions to the basin from mobile sources associated with the vehicular travel along the roadways within the project area.

Air emissions were calculated using California Emissions Estimator Model (CalEEMod) 2013.2.2 (California Air Pollution Control Officers Association [CAPCOA] 2013). The CalEEMod program is a tool used to estimate air emissions resulting from land development projects based on California specific emission factors. The model estimates mass emissions from two basic sources: construction sources and operational sources (i.e., area, energy, and mobile sources).

Inputs to CalEEMod include such items as the air basin containing the project, land uses, trip generation rates, trip lengths, vehicle fleet mix (percentage autos, medium truck, etc.), trip distribution (i.e., percent home to work, etc.), duration of construction phases, construction equipment usage, grading areas, season, and ambient temperature, as well as other parameters. Emissions of ROG, NO_x, CO, SO_x, PM₁₀, and PM_{2.5} are calculated.

1.0 Consistency with RAQS

Section 15125(B) of the CEQA Guidelines contains specific reference to the need to evaluate any inconsistencies between the proposed project and the applicable air quality management plan, i.e., the RAQS. Included in the RAQS are TCMs. The RAQS and TCM set forth the steps needed to accomplish attainment of State and Federal AAQS. The primary concern for assessing impacts on the RAQS is whether a project is consistent with the growth assumptions used to develop the plan.

The SDAPCD relies, to a certain degree, on land use designations contained in local general plan documents and SANDAG regional transportation plans to prepare air quality plans. SDAPCD refers to approved general plans to forecast, inventory, and allocate regional emissions from land use and development-related sources. These emissions budgets are used in statewide air quality attainment planning efforts. As such, projects that propose development that is equal to or less than population growth projections and land use intensity are inherently consistent. Projects that propose development that is greater than anticipated in the growth projections warrant further analysis to determine consistency with RAQS and the SIP.

To determine consistency with the air emission assumptions of the RAQS, a similar process was followed where the air emissions associated with the project were compared to the air emissions associated with the land uses under the proposed HEU. If the emissions of the

HEU were less than those under the adopted General Plan, the project would be considered consistent with the RAQS. Emissions for each housing strategy and the No Project scenario were calculated using the methodology discussed below.

2.0 Criteria Pollutants

2.1 Construction Emissions

Construction-related activities are temporary, short-term sources of air emissions. Sources of construction-related air emissions include:

- Fugitive dust from grading activities;
- Construction equipment exhaust;
- Construction-related trips by workers, delivery trucks, and material-hauling trucks; and
- Construction-related power consumption.

Construction-related pollutants result from dust raised during demolition and grading, emissions from construction vehicles, and chemicals used during construction. Fugitive dust emissions vary greatly during construction and are dependent on the amount and type of activity, silt content of the soil, and the weather. Vehicles moving over paved and unpaved surfaces, demolition, excavation, earth movement, grading, and wind erosion from exposed surfaces are all sources of fugitive dust. Construction operations are subject to the requirements established in Regulation 4, Rules 52, 54, and 55, of the SDAPCD's rules and regulations.

Heavy-duty construction equipment is usually diesel powered. In general, emissions from diesel-powered equipment contain more NO_x, SO_x, and particulate matter than gasoline-powered engines. However, diesel-powered engines generally produce less CO and less ROG than do gasoline-powered engines. Standard construction equipment includes tractors/loaders/backhoes, rubber-tired dozers, excavators, graders, cranes, forklifts, rollers, paving equipment, generator sets, welders, cement and mortar mixers, and air compressors.

Construction emissions were calculated for the housing sites that propose the greatest amount of development, and would therefore result in the greatest construction emissions. Emissions associated with construction of these housing sites were calculated using the CalEEMod program assuming that construction would begin in January 2016. Primary inputs are the numbers of each piece of equipment and the length of each construction stage. Specific construction phasing and equipment parameters are not available at this time. However, CalEEMod can estimate the required construction equipment when project-specific information is unavailable. The estimates are based on surveys, performed by the SCAQMD and the Sacramento Metropolitan Air Quality Management District, of typical construction projects which provide a basis for scaling equipment needs and schedule with a project's size. Air emission estimates in CalEEMod are based on the duration of construction phases; construction equipment type, quantity, and usage; grading area;

season; and ambient temperature, among other parameters. It was assumed that housing site construction would occur in five stages: site preparation, grading/excavation, building construction, paving, and architectural coatings. A volatile organic compounds (VOC) content of 150 grams per liter was assumed in accordance with SDAPCD Rule 67.0.

2.2 Operational Emissions

Operational emissions are long-term and include mobile and area sources. Sources of operational emissions associated with future projects on the housing sites include:

- Traffic generated by the project; and,
- Area source emissions from the use of natural gas, fireplaces, and consumer products.

Air pollutants generated by each housing strategy were modeled based on average emissions from land use types. For the purposes of this analysis, it was assumed that the land use changes contained in the HEU would be fully constructed in 2035. As with construction emissions, operation estimates were generated using CalEEMod.

2.2.1 Mobile Sources

CalEEMod estimates vehicle emissions from the trip generation rate and trip length associated with each land use. Vehicle emissions are estimated by first calculating trip rate, trip length, trip purpose, and trip type percentages (e.g., home to work, home to shop, home to other) for each land use type.

The daily trip generation and the City-wide vehicle miles traveled (VMT) were calculated for each housing strategy as a part of the Traffic Impact Analysis prepared for the project (Appendix #). The trip generation was calculated based on the land use maps provided by the City and trip generation rates from the SANDAG's *Guide to Vehicular Traffic Generation Rates for the San Diego Region*. VMT information provided by SANDAG for the project was based upon the method recommended by the SB 375 Regional Targets Advisory Committee for allocating VMT to a study area.

All three housing strategies encourage increased development diversity by increasing the buildout potential for commercial/mixed use and multi-family land uses. Locating different land uses types near one another can decrease VMT, since trips between land use types are shorter and may be accommodated by alternative modes of transportation (CAPCOA 2010). To assist in the evaluation of the three housing strategies, the VMT and trip generation efficiency was calculated and compared to the No Project/Adopted Plan scenario. It was found that housing strategy 3 (MMUP) would have the highest efficiency, followed by housing strategy 1 (RM), housing strategy 2 (BYO), and then the No Project/Adopted Plan scenario, respectively. That is, although housing strategy 3 (MMUP) proposes the greatest amount of development and in turn, the greatest trip generation and total VMT, this housing strategy would be the most efficient because it would reduce the overall average trip length of each individual trip. This can be attributed to housing strategy 3 (MMUP)

emphasizing mixed-use development that has the benefits of placing housing in close proximity to retail and employment land uses. Housing strategy 2 (BYO) would be the least efficient of the three strategies because it is more suburban in nature. However, each of the housing strategies would be more efficient than the No Project/Adopted Plan scenario.

The average regional trip length is 5.8 miles (SANDAG 2014). As discussed, each of the housing strategies would increase vehicle trip efficiency. Using City-wide daily trip generation and SANDAG VMT calculations for each housing strategy, it was calculated that housing strategies 1, 2, and 3 would reduce average trip length by 0.6 percent, 0.5 percent, and 1.3 percent, respectively. Thus, trip lengths of 5.76, 5.77, and 5.72 miles were used for modeling vehicle emissions associated with housing strategies 1, 2, and 3, respectively.

2.2.2 Area Sources

CalEEMod estimates the emissions that would occur from the use of hearths (fireplaces), woodstoves, and landscaping equipment. Emissions due to use of consumer products and architectural coatings that have ROG content are also estimated. The use of fireplaces and woodstoves directly emits air pollutants from the combustion of natural gas, wood, or biomass. CalEEMod estimates emissions from fireplaces and woodstoves only for residential uses based on the type and size features of the residential land use inputs. By default, commercial land uses do not have any fireplaces or woodstoves in CalEEMod but can be added for those cases where they may occur such as in restaurants or hotels if such information is known. For this analysis, it was assumed that residential uses would be constructed with natural gas fireplaces.

The use of landscape equipment also generates air pollutants associated with the equipment's fuel combustion. CalEEMod estimates the number and types of equipment needed based on the number of summer days given the project's location as entered in the project characteristics module. All emissions estimates include landscaping equipment.

Energy consumption values are based on the California Energy Commission-sponsored California Commercial End Use Survey and Residential Appliance Saturation Survey studies, which identify energy use by building type and climate zone. Because these studies are based on older buildings, adjustments have been made in CalEEMod to account for changes to Title 24 building codes. CalEEMod is based on the 2008 Title 24 energy code (Part 6 of the building code). The current 2013 Title 24 energy code increases electricity and natural gas efficiency over the previous 2008 Title 24 energy code. However, as a conservative air quality analysis, 2008 model default values were used.

3.0 Sensitive Receptors

3.1 Diesel Particulate Matter

The analysis of exposure to diesel particulate matter is based on CARB's document *CARB Air Quality and Land Use Handbook: A Community Health Perspective* (State of California

2005). CARB guidelines indicate that siting new sensitive land uses within 500 feet of a freeway or urban roads with 100,000 or more vehicles/day should be avoided when possible. Based on this guidance, I-5 is a roadway of concern. The analysis is based on the distance between the proposed housing sites and I-5.

3.2 Carbon Monoxide Hot Spots

Localized CO concentration is a direct function of motor vehicle activity at signalized intersections (e.g., idling time and traffic flow conditions), particularly during peak commute hours and meteorological conditions. Under specific meteorological conditions (e.g., stable conditions that result in poor dispersion), CO concentrations may reach unhealthy levels with respect to local sensitive land uses. Guidance for the evaluation of CO hot spots is provided in the *Transportation Project-level Carbon Monoxide Protocol* (CO protocol) (University of California, Davis 1997) prepared for the Environmental Program of the California Department of Transportation by the Institute of Transportation Studies, University of California Davis.

The SDAB is a CO maintenance area under the federal CAA. This means that SDAB was previously a non-attainment area and is currently implementing a 10-year plan for continuing to meet and maintain air quality standards. According to the CO Protocol, in maintenance areas, only projects that are likely to worsen air quality necessitate further analysis. The CO Protocol indicates projects may worsen air quality if they worsen traffic flow, defined as increasing average delay at signalized intersections operating at level of service (LOS) E or F or causing an intersection that would operate at LOS D or better without the project, to operate at LOS E or F. Unsignalized intersections are not evaluated as they are typically signalized as volumes increase and delays increase, and traffic volumes at unsignalized intersections are typically much lower than at signalized intersections.

Based on the traffic study for the HEU, the following 14 intersections are anticipated to operate at LOS E or worse under buildout of housing strategy 3 (MMUP):

- Vulcan Avenue and La Costa Avenue (Side Street Stop Control [SSSC])
- El Camino Real and La Costa Avenue (Signalized)
- Saxony Road and Leucadia Boulevard (Signalized)
- El Camino Real and Leucadia Boulevard (Signalized)
- Rancho Santa Fe Road and Lone Jack Road (All Way Stop Control [AWSC])
- Rancho Santa Fe Road and El Camino Del Norte (AWSC)
- El Camino Real and Encinitas Boulevard (Signalized)
- Rancho Santa Fe Road and Encinitas Boulevard (Signalized)
- San Elijo Avenue and Santa Fe Drive (AWSC)
- Balour Drive and Santa Fe Drive (SSSC)
- I-5 Southbound Ramps and Birmingham Drive (SSSC)
- I-5 Northbound Ramps and Birmingham Drive (AWSC)
- I-5 Southbound Ramps and Manchester Avenue (AWSC)
- I-5 Northbound Ramps and Manchester Avenue (Signalized)

As discussed, unsignalized intersections are typically not evaluated because they are typically signalized when volumes and delays increase. Eight of the above intersections are unsignalized and were not considered in this analysis. According to the protocol, the three worst signalized intersections would require detailed modeling with CALINE4 in order to determine if the CO emissions exceed the thresholds. If one of the intersections fail, then the next worse intersection would be modeled until it is determined that all remaining intersections would not exceed the national or California AAQS. The following three worst intersections were chosen based on traffic volumes, delay, and intersection configuration:

- El Camino Real and La Costa Avenue (LOS E during PM peak hour)
- El Camino Real and Leucadia Boulevard (LOS E during PM peak hour)
- El Camino Real and Encinitas Boulevard (LOS E during PM peak hour)

The detailed modeling is based on the 2035 peak hour (PM) traffic volumes and 2035 emission factors from EMFAC2014 (State of California 2014) for 5 miles per hour (mph) for traffic approaching an intersection and 10 mph for traffic departing the intersection. The 1-hour background concentration of CO for the area, 4.4 ppm, was included in the model. This ambient concentration is considered conservative, as it was the highest recorded hourly concentration over the past five years at the Escondido—East Valley Parkway monitoring station. This concentration was assumed for all intersections. The average low regional temperature of 54°F was included in the model as reported by the Western Regional Climate Center. For a worst-case meteorological setting, the wind angle assumes all wind is blowing at each receptor. The mixing height of pollutants was set at 1,000 feet with a stable atmosphere.

7722 Encinitas HEU - No Project
San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	1,121.00	Dwelling Unit	29.50	1,121,000.00	3206
Strip Mall	1,745.05	1000sqft	205.03	1,745,050.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	556.22	CH4 Intensity (lb/MWhr)	0.022	N2O Intensity (lb/MWhr)	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS 33% goal
 CalEEMod accounts for 10.2%
 22.8% difference applied to intensity factors

Land Use - 1,121 units
 1,745,050 SF commercial
 234.53 acres

Construction Phase - Construction calculated separately

Vehicle Trips - 54,766 trips compared to baseline
 No reduction in VMT

Woodstoves - No woodstoves, natural gas fireplaces only

Area Coating - SDAPCD VOC content limit = 150 g/L

Energy Use - 2013 Title 24:

Multi-family - 23.3% increase in electricity efficiency, 3.8% increase in natural gas efficiency
 Non-residential - 21.8% increase in electricity efficiency, 16.8% increase in natural gas efficiency

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblConstructionPhase	NumDays	4,650.00	1.00
tblEnergyUse	T24E	160.77	123.31
tblEnergyUse	T24E	3.89	3.04
tblEnergyUse	T24NG	3,820.47	3,675.29
tblEnergyUse	T24NG	1.20	1.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	616.55	1,121.00
tblFireplaces	NumberNoFireplace	112.10	0.00
tblFireplaces	NumberWood	392.35	0.00
tblLandUse	LotAcreage	40.06	205.03
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	720.49	556.22

tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	OperationalYear	2014	2035
tblVehicleTrips	CC_TL	7.30	5.80
tblVehicleTrips	CNW_TL	7.30	5.80
tblVehicleTrips	CW_TL	9.50	5.80
tblVehicleTrips	HO_TL	7.50	5.80
tblVehicleTrips	HS_TL	7.30	5.80
tblVehicleTrips	HW_TL	10.80	5.80
tblVehicleTrips	ST_TR	7.16	1.65
tblVehicleTrips	ST_TR	42.04	30.32
tblVehicleTrips	SU_TR	6.07	1.65
tblVehicleTrips	SU_TR	20.43	30.32
tblVehicleTrips	WD_TR	6.59	1.65
tblVehicleTrips	WD_TR	44.32	30.32
tblWoodstoves	NumberCatalytic	56.05	0.00
tblWoodstoves	NumberNoncatalytic	56.05	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	85.8619	1.0649	92.4547	4.9000e-003		2.0170	2.0170		2.0011	2.0011	0.0000	23,905.7326	23,905.7326	0.6145	0.4352	24,053.5528
Energy	0.2845	2.4903	1.4657	0.0155		0.1966	0.1966		0.1966	0.1966		3,104.0311	3,104.0311	0.0595	0.0569	3,122.9218
Mobile	95.5255	111.9980	729.1713	2.0283	137.9269	2.5281	140.4550	36.8115	2.3364	39.1479		141,232.8288	141,232.8288	4.5496		141,328.3700
Total	181.6719	115.5532	823.0917	2.0487	137.9269	4.7416	142.6685	36.8115	4.5341	41.3456	0.0000	168,242.5925	168,242.5925	5.2236	0.4921	168,504.8445

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	85.8619	1.0649	92.4547	4.9000e-003		2.0170	2.0170		2.0011	2.0011	0.0000	23,905.7326	23,905.7326	0.6145	0.4352	24,053.5528
Energy	0.2845	2.4903	1.4657	0.0155		0.1966	0.1966		0.1966	0.1966		3,104.0311	3,104.0311	0.0595	0.0569	3,122.9218
Mobile	95.5255	111.9980	729.1713	2.0283	137.9269	2.5281	140.4550	36.8115	2.3364	39.1479		141,232.8288	141,232.8288	4.5496		141,328.3700
Total	181.6719	115.5532	823.0917	2.0487	137.9269	4.7416	142.6685	36.8115	4.5341	41.3456	0.0000	168,242.5925	168,242.5925	5.2236	0.4921	168,504.8445

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/1/2016	1/1/2016	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

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
Building Construction	9	1,366.00	406.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

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	4.8995	39.4099	60.7829	0.0961	2.6948	0.5879	3.2827	0.7688	0.5407	1.3095		9,612.4240	9,612.4240	0.0767		9,614.0356
Worker	5.0616	6.2876	59.3697	0.1335	11.2214	0.0842	11.3056	2.9764	0.0774	3.0538		11,142.0715	11,142.0715	0.5944		11,154.5547
Total	9.9611	45.6975	120.1526	0.2296	13.9162	0.6721	14.5883	3.7453	0.6180	4.3633		20,754.4955	20,754.4955	0.6712		20,768.5903

3.2 Building Construction - 2016

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890

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	4.8995	39.4099	60.7829	0.0961	2.6948	0.5879	3.2827	0.7688	0.5407	1.3095		9,612.4240	9,612.4240	0.0767		9,614.0356
Worker	5.0616	6.2876	59.3697	0.1335	11.2214	0.0842	11.3056	2.9764	0.0774	3.0538		11,142.0715	11,142.0715	0.5944		11,154.5547
Total	9.9611	45.6975	120.1526	0.2296	13.9162	0.6721	14.5883	3.7453	0.6180	4.3633		20,754.4955	20,754.4955	0.6712		20,768.5903

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	95.5255	111.9980	729.1713	2.0283	137.9269	2.5281	140.4550	36.8115	2.3364	39.1479		141,232.8288	141,232.8288	4.5496		141,328.3700
Unmitigated	95.5255	111.9980	729.1713	2.0283	137.9269	2.5281	140.4550	36.8115	2.3364	39.1479		141,232.8288	141,232.8288	4.5496		141,328.3700

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,849.65	1,849.65	1849.65	3,467,691	3,467,691
Strip Mall	52,909.92	52,909.92	52,909.92	61,725,766	61,725,766
Total	54,759.57	54,759.57	54,759.57	65,193,457	65,193,457

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
Apartments Mid Rise	5.80	5.80	5.80	41.60	18.80	39.60	86	11	3
Strip Mall	5.80	5.80	5.80	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511887	0.074493	0.190892	0.129437	0.036275	0.005211	0.012579	0.024993	0.001957	0.001971	0.006467	0.000450	0.003389

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2845	2.4903	1.4657	0.0155		0.1966	0.1966		0.1966	0.1966		3,104.0311	3,104.0311	0.0595	0.0569	3,122.9218
NaturalGas Unmitigated	0.2845	2.4903	1.4657	0.0155		0.1966	0.1966		0.1966	0.1966		3,104.0311	3,104.0311	0.0595	0.0569	3,122.9218

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	9992.2	0.1078	0.9796	0.8229	5.8800e-003		0.0745	0.0745		0.0745	0.0745		1,175.5534	1,175.5534	0.0225	0.0216	1,182.7077
Apartments Mid Rise	16392.1	0.1768	1.5106	0.6428	9.6400e-003		0.1221	0.1221		0.1221	0.1221		1,928.4777	1,928.4777	0.0370	0.0354	1,940.2141
Total		0.2845	2.4903	1.4657	0.0155		0.1966	0.1966		0.1966	0.1966		3,104.0311	3,104.0311	0.0595	0.0569	3,122.9218

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	16.3921	0.1768	1.5106	0.6428	9.6400e-003		0.1221	0.1221		0.1221	0.1221		1,928.4777	1,928.4777	0.0370	0.0354	1,940.2141
Strip Mall	9.9922	0.1078	0.9796	0.8229	5.8800e-003		0.0745	0.0745		0.0745	0.0745		1,175.5534	1,175.5534	0.0225	0.0216	1,182.7077
Total		0.2845	2.4903	1.4657	0.0155		0.1966	0.1966		0.1966	0.1966		3,104.0311	3,104.0311	0.0595	0.0569	3,122.9218

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	85.8619	1.0649	92.4547	4.9000e-003		2.0170	2.0170		2.0011	2.0011	0.0000	23,905.7326	23,905.7326	0.6145	0.4352	24,053.5528
Unmitigated	85.8619	1.0649	92.4547	4.9000e-003		2.0170	2.0170		2.0011	2.0011	0.0000	23,905.7326	23,905.7326	0.6145	0.4352	24,053.5528

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	19.5806					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	61.3335					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2.1761	1.0000e-004	0.1187	0.0000		1.5035	1.5035		1.4876	1.4876	0.0000	23,738.8235	23,738.8235	0.4550	0.4352	23,883.2941
Landscaping	2.7717	1.0648	92.3360	4.9000e-003		0.5135	0.5135		0.5135	0.5135		166.9090	166.9090	0.1595		170.2587
Total	85.8619	1.0649	92.4547	4.9000e-003		2.0170	2.0170		2.0011	2.0011	0.0000	23,905.7326	23,905.7326	0.6145	0.4352	24,053.5528

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	19.5806					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	61.3335					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2.1761	1.0000e-004	0.1187	0.0000		1.5035	1.5035		1.4876	1.4876	0.0000	23,738.8235	23,738.8235	0.4550	0.4352	23,883.2941
Landscaping	2.7717	1.0648	92.3360	4.9000e-003		0.5135	0.5135		0.5135	0.5135		166.9090	166.9090	0.1595		170.2587
Total	85.8619	1.0649	92.4547	4.9000e-003		2.0170	2.0170		2.0011	2.0011	0.0000	23,905.7326	23,905.7326	0.6145	0.4352	24,053.5528

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

7722 Encinitas HEU - Ready Made
San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	1,930.00	Dwelling Unit	50.79	1,930,000.00	5520
Strip Mall	780.82	1000sqft	31.37	780,821.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	556.22	CH4 Intensity (lb/MWhr)	0.022	N2O Intensity (lb/MWhr)	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS 33% goal
 CalEEMod accounts for 10.2%
 22.8% difference applied to intensity factors

Land Use - 1,930 units
 780,821 SF commercial
 82.16 acres

Construction Phase - Construction calculated separately

Vehicle Trips - 71,127 trips compared to baseline
 0.6% reduction in VMT

Woodstoves - No woodstoves, natural gas fireplaces only

Area Coating - SDAPCD VOC content limit = 150 g/L

Energy Use - 2013 Title 24:

Multi-family - 23.3% increase in electricity efficiency, 3.8% increase in natural gas efficiency
 Non-residential - 21.8% increase in electricity efficiency, 16.8% increase in natural gas efficiency

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblConstructionPhase	NumDays	1,550.00	1.00
tblEnergyUse	T24E	160.77	123.31
tblEnergyUse	T24E	3.89	3.04
tblEnergyUse	T24NG	3,820.47	3,675.29
tblEnergyUse	T24NG	1.20	1.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	1,061.50	1,930.00
tblFireplaces	NumberNoFireplace	193.00	0.00
tblFireplaces	NumberWood	675.50	0.00
tblLandUse	LandUseSquareFeet	780,820.00	780,821.00
tblLandUse	LotAcreage	17.93	31.37
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022

tblProjectCharacteristics	CO2IntensityFactor	720.49	556.22
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	OperationalYear	2014	2035
tblVehicleTrips	CC_TL	7.30	5.76
tblVehicleTrips	CNW_TL	7.30	5.76
tblVehicleTrips	CW_TL	9.50	5.76
tblVehicleTrips	HO_TL	7.50	5.76
tblVehicleTrips	HS_TL	7.30	5.76
tblVehicleTrips	HW_TL	10.80	5.76
tblVehicleTrips	ST_TR	7.16	4.38
tblVehicleTrips	ST_TR	42.04	80.27
tblVehicleTrips	SU_TR	6.07	4.38
tblVehicleTrips	SU_TR	20.43	80.27
tblVehicleTrips	WD_TR	6.59	4.38
tblVehicleTrips	WD_TR	44.32	80.27
tblWoodstoves	NumberCatalytic	96.50	0.00
tblWoodstoves	NumberNoncatalytic	96.50	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	87.5145	1.8315	158.9514	8.4100e-003		3.4718	3.4718		3.4445	3.4445	0.0000	41,157.4651	41,157.4651	1.0567	0.7493	41,411.9374
Energy	0.3526	3.0392	1.4749	0.0192		0.2436	0.2436		0.2436	0.2436		3,846.2162	3,846.2162	0.0737	0.0705	3,869.6236
Mobile	125.0490	149.4288	965.7057	2.7414	186.9323	3.3910	190.3234	49.8906	3.1338	53.0244		190,898.5963	190,898.5963	6.1220		191,027.1585
Total	212.9160	154.2994	1,126.1320	2.7690	186.9323	7.1063	194.0387	49.8906	6.8219	56.7125	0.0000	235,902.2775	235,902.2775	7.2525	0.8198	236,308.7195

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	87.5145	1.8315	158.9514	8.4100e-003		3.4718	3.4718		3.4445	3.4445	0.0000	41,157.4651	41,157.4651	1.0567	0.7493	41,411.9374
Energy	0.3526	3.0392	1.4749	0.0192		0.2436	0.2436		0.2436	0.2436		3,846.2162	3,846.2162	0.0737	0.0705	3,869.6236
Mobile	125.0490	149.4288	965.7057	2.7414	186.9323	3.3910	190.3234	49.8906	3.1338	53.0244		190,898.5963	190,898.5963	6.1220		191,027.1585
Total	212.9160	154.2994	1,126.1320	2.7690	186.9323	7.1063	194.0387	49.8906	6.8219	56.7125	0.0000	235,902.2775	235,902.2775	7.2525	0.8198	236,308.7195

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/1/2016	1/1/2016	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

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
Building Construction	9	1,639.00	334.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

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	4.0306	32.4209	50.0037	0.0791	2.2169	0.4837	2.7006	0.6325	0.4448	1.0772		7,907.7576	7,907.7576	0.0631		7,909.0835
Worker	6.0731	7.5442	71.2350	0.1602	13.4640	0.1010	13.5650	3.5713	0.0929	3.6641		13,368.8545	13,368.8545	0.7132		13,383.8324
Total	10.1038	39.9651	121.2386	0.2393	15.6809	0.5847	16.2656	4.2038	0.5376	4.7414		21,276.6122	21,276.6122	0.7764		21,292.9159

3.2 Building Construction - 2016

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890

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	4.0306	32.4209	50.0037	0.0791	2.2169	0.4837	2.7006	0.6325	0.4448	1.0772		7,907.7576	7,907.7576	0.0631		7,909.0835
Worker	6.0731	7.5442	71.2350	0.1602	13.4640	0.1010	13.5650	3.5713	0.0929	3.6641		13,368.8545	13,368.8545	0.7132		13,383.8324
Total	10.1038	39.9651	121.2386	0.2393	15.6809	0.5847	16.2656	4.2038	0.5376	4.7414		21,276.6122	21,276.6122	0.7764		21,292.9159

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	125.0490	149.4288	965.7057	2.7414	186.9323	3.3910	190.3234	49.8906	3.1338	53.0244		190,898.5963	190,898.5963	6.1220		191,027.1585
Unmitigated	125.0490	149.4288	965.7057	2.7414	186.9323	3.3910	190.3234	49.8906	3.1338	53.0244		190,898.5963	190,898.5963	6.1220		191,027.1585

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	8,453.40	8,453.40	8453.40	15,739,047	15,739,047
Strip Mall	62,676.42	62,676.42	62676.42	72,617,654	72,617,654
Total	71,129.82	71,129.82	71,129.82	88,356,701	88,356,701

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
Apartments Mid Rise	5.76	5.76	5.76	41.60	18.80	39.60	86	11	3
Strip Mall	5.76	5.76	5.76	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511887	0.074493	0.190892	0.129437	0.036275	0.005211	0.012579	0.024993	0.001957	0.001971	0.006467	0.000450	0.003389

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3526	3.0392	1.4749	0.0192		0.2436	0.2436		0.2436	0.2436		3,846.2162	3,846.2162	0.0737	0.0705	3,869.6236
NaturalGas Unmitigated	0.3526	3.0392	1.4749	0.0192		0.2436	0.2436		0.2436	0.2436		3,846.2162	3,846.2162	0.0737	0.0705	3,869.6236

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	4471	0.0482	0.4383	0.3682	2.6300e-003		0.0333	0.0333		0.0333	0.0333		526.0003	526.0003	0.0101	9.6400e-003	529.2014
Apartments Mid Rise	28221.8	0.3044	2.6008	1.1067	0.0166		0.2103	0.2103		0.2103	0.2103		3,320.2159	3,320.2159	0.0636	0.0609	3,340.4221
Total		0.3526	3.0392	1.4749	0.0192		0.2436	0.2436		0.2436	0.2436		3,846.2162	3,846.2162	0.0737	0.0705	3,869.6236

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	28.2218	0.3044	2.6008	1.1067	0.0166		0.2103	0.2103		0.2103	0.2103		3,320.2159	3,320.2159	0.0636	0.0609	3,340.4221
Strip Mall	4.471	0.0482	0.4383	0.3682	2.6300e-003		0.0333	0.0333		0.0333	0.0333		526.0003	526.0003	0.0101	9.6400e-003	529.2014
Total		0.3526	3.0392	1.4749	0.0192		0.2436	0.2436		0.2436	0.2436		3,846.2162	3,846.2162	0.0737	0.0705	3,869.6236

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	87.5145	1.8315	158.9514	8.4100e-003		3.4718	3.4718		3.4445	3.4445	0.0000	41,157.4651	41,157.4651	1.0567	0.7493	41,411.9374
Unmitigated	87.5145	1.8315	158.9514	8.4100e-003		3.4718	3.4718		3.4445	3.4445	0.0000	41,157.4651	41,157.4651	1.0567	0.7493	41,411.9374

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	21.0051					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	58.0116					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	3.7465	1.7000e-004	0.2044	0.0000		2.5885	2.5885		2.5612	2.5612	0.0000	40,870.5882	40,870.5882	0.7834	0.7493	41,119.3198
Landscaping	4.7514	1.8313	158.7470	8.4100e-003		0.8833	0.8833		0.8833	0.8833		286.8768	286.8768	0.2734		292.6176
Total	87.5144	1.8315	158.9514	8.4100e-003		3.4718	3.4718		3.4445	3.4445	0.0000	41,157.4651	41,157.4651	1.0567	0.7493	41,411.9374

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	21.0051					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	58.0116					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	3.7465	1.7000e-004	0.2044	0.0000		2.5885	2.5885		2.5612	2.5612	0.0000	40,870.5882	40,870.5882	0.7834	0.7493	41,119.3198
Landscaping	4.7514	1.8313	158.7470	8.4100e-003		0.8833	0.8833		0.8833	0.8833		286.8768	286.8768	0.2734		292.6176
Total	87.5144	1.8315	158.9514	8.4100e-003		3.4718	3.4718		3.4445	3.4445	0.0000	41,157.4651	41,157.4651	1.0567	0.7493	41,411.9374

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

7722 Encinitas HEU - Build Your Own
San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	1,853.00	Dwelling Unit	48.76	1,853,000.00	5300
Strip Mall	696.09	1000sqft	37.01	696,093.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	556.22	CH4 Intensity (lb/MWhr)	0.022	N2O Intensity (lb/MWhr)	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS 33% goal
 CalEEMod accounts for 10.2%
 22.8% difference applied to intensity factors

Land Use - 1,853 units
 696,093 SF commercial
 85.77 acres

Construction Phase - Construction calculated separately

Vehicle Trips - 79,332 trips compared to baseline
 0.5% reduction in VMT

Woodstoves - No woodstoves, natural gas fireplaces only

Area Coating - SDAPCD VOC content limit = 150 g/L

Energy Use - 2013 Title 24:

Multi-family - 23.3% increase in electricity efficiency, 3.8% increase in natural gas efficiency
 Non-residential - 21.8% increase in electricity efficiency, 16.8% increase in natural gas efficiency

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblConstructionPhase	NumDays	1,550.00	1.00
tblEnergyUse	T24E	160.77	123.31
tblEnergyUse	T24E	3.89	3.04
tblEnergyUse	T24NG	3,820.47	3,675.29
tblEnergyUse	T24NG	1.20	1.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	1,019.15	1,853.00
tblFireplaces	NumberNoFireplace	185.30	0.00
tblFireplaces	NumberWood	648.55	0.00
tblLandUse	LandUseSquareFeet	696,090.00	696,093.00
tblLandUse	LotAcreage	15.98	37.01
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022

tblProjectCharacteristics	CO2IntensityFactor	720.49	556.22
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	OperationalYear	2014	2035
tblVehicleTrips	CC_TL	7.30	5.77
tblVehicleTrips	CNW_TL	7.30	5.77
tblVehicleTrips	CW_TL	9.50	5.77
tblVehicleTrips	HO_TL	7.50	5.77
tblVehicleTrips	HS_TL	7.30	5.77
tblVehicleTrips	HW_TL	10.80	5.77
tblVehicleTrips	ST_TR	7.16	5.43
tblVehicleTrips	ST_TR	42.04	99.52
tblVehicleTrips	SU_TR	6.07	5.43
tblVehicleTrips	SU_TR	20.43	99.52
tblVehicleTrips	WD_TR	6.59	5.43
tblVehicleTrips	WD_TR	44.32	99.52
tblWoodstoves	NumberCatalytic	92.65	0.00
tblWoodstoves	NumberNoncatalytic	92.65	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	82.5698	1.7583	152.6044	8.0800e-003		3.3332	3.3332		3.3071	3.3071	0.0000	39,515.4198	39,515.4198	1.0145	0.7194	39,759.7389
Energy	0.3352	2.8878	1.3908	0.0183		0.2316	0.2316		0.2316	0.2316		3,656.6745	3,656.6745	0.0701	0.0670	3,678.9285
Mobile	139.6390	167.3322	1,080.2396	3.0756	209.8044	3.8002	213.6046	55.9950	3.5120	59.5070		214,173.2007	214,173.2007	6.8640		214,317.3444
Total	222.5440	171.9784	1,234.2348	3.1020	209.8044	7.3650	217.1694	55.9950	7.0506	63.0456	0.0000	257,345.2950	257,345.2950	7.9486	0.7864	257,756.0117

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	82.5698	1.7583	152.6044	8.0800e-003		3.3332	3.3332		3.3071	3.3071	0.0000	39,515.4198	39,515.4198	1.0145	0.7194	39,759.7389
Energy	0.3352	2.8878	1.3908	0.0183		0.2316	0.2316		0.2316	0.2316		3,656.6745	3,656.6745	0.0701	0.0670	3,678.9285
Mobile	139.6390	167.3322	1,080.2396	3.0756	209.8044	3.8002	213.6046	55.9950	3.5120	59.5070		214,173.2007	214,173.2007	6.8640		214,317.3444
Total	222.5440	171.9784	1,234.2348	3.1020	209.8044	7.3650	217.1694	55.9950	7.0506	63.0456	0.0000	257,345.2950	257,345.2950	7.9486	0.7864	257,756.0117

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/1/2016	1/1/2016	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

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
Building Construction	9	1,557.00	312.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

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	3.7652	30.2854	46.7100	0.0739	2.0709	0.4518	2.5227	0.5908	0.4155	1.0063		7,386.8874	7,386.8874	0.0590		7,388.1259
Worker	5.7693	7.1668	67.6710	0.1522	12.7904	0.0960	12.8864	3.3926	0.0882	3.4808		12,700.0040	12,700.0040	0.6776		12,714.2325
Total	9.5344	37.4522	114.3811	0.2260	14.8613	0.5478	15.4090	3.9834	0.5037	4.4871		20,086.8913	20,086.8913	0.7365		20,102.3584

3.2 Building Construction - 2016

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890

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	3.7652	30.2854	46.7100	0.0739	2.0709	0.4518	2.5227	0.5908	0.4155	1.0063		7,386.8874	7,386.8874	0.0590		7,388.1259
Worker	5.7693	7.1668	67.6710	0.1522	12.7904	0.0960	12.8864	3.3926	0.0882	3.4808		12,700.0040	12,700.0040	0.6776		12,714.2325
Total	9.5344	37.4522	114.3811	0.2260	14.8613	0.5478	15.4090	3.9834	0.5037	4.4871		20,086.8913	20,086.8913	0.7365		20,102.3584

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	139.6390	167.3322	1,080,239.6	3.0756	209.8044	3.8002	213.6046	55.9950	3.5120	59.5070		214,173.2007	214,173.2007	6.8640		214,317.3444
Unmitigated	139.6390	167.3322	1,080,239.6	3.0756	209.8044	3.8002	213.6046	55.9950	3.5120	59.5070		214,173.2007	214,173.2007	6.8640		214,317.3444

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	10,061.79	10,061.79	10061.79	18,766,149	18,766,149
Strip Mall	69,274.88	69,274.88	69,274.88	80,401,392	80,401,392
Total	79,336.67	79,336.67	79,336.67	99,167,541	99,167,541

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
Apartments Mid Rise	5.77	5.77	5.77	41.60	18.80	39.60	86	11	3
Strip Mall	5.77	5.77	5.77	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511887	0.074493	0.190892	0.129437	0.036275	0.005211	0.012579	0.024993	0.001957	0.001971	0.006467	0.000450	0.003389

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3352	2.8878	1.3908	0.0183		0.2316	0.2316		0.2316	0.2316		3,656.6745	3,656.6745	0.0701	0.0670	3,678.9285
NaturalGas Unmitigated	0.3352	2.8878	1.3908	0.0183		0.2316	0.2316		0.2316	0.2316		3,656.6745	3,656.6745	0.0701	0.0670	3,678.9285

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	3985.85	0.0430	0.3908	0.3283	2.3400e-003		0.0297	0.0297		0.0297	0.0297		468.9233	468.9233	8.9900e-003	8.6000e-003	471.7770
Apartments Mid Rise	27095.9	0.2922	2.4971	1.0626	0.0159		0.2019	0.2019		0.2019	0.2019		3,187.7513	3,187.7513	0.0611	0.0584	3,207.1514
Total		0.3352	2.8878	1.3908	0.0183		0.2316	0.2316		0.2316	0.2316		3,656.6745	3,656.6745	0.0701	0.0670	3,678.9284

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	27.0959	0.2922	2.4971	1.0626	0.0159		0.2019	0.2019		0.2019	0.2019		3,187.7513	3,187.7513	0.0611	0.0584	3,207.1514
Strip Mall	3.98585	0.0430	0.3908	0.3283	2.3400e-003		0.0297	0.0297		0.0297	0.0297		468.9233	468.9233	8.9900e-003	8.6000e-003	471.7770
Total		0.3352	2.8878	1.3908	0.0183		0.2316	0.2316		0.2316	0.2316		3,656.6745	3,656.6745	0.0701	0.0670	3,678.9284

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	82.5698	1.7583	152.6044	8.0800e-003		3.3332	3.3332		3.3071	3.3071	0.0000	39,515.4198	39,515.4198	1.0145	0.7194	39,759.7389
Unmitigated	82.5698	1.7583	152.6044	8.0800e-003		3.3332	3.3332		3.3071	3.3071	0.0000	39,515.4198	39,515.4198	1.0145	0.7194	39,759.7389

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	19.8609					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	54.5506					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	3.5970	1.6000e-004	0.1962	0.0000		2.4852	2.4852		2.4590	2.4590	0.0000	39,240.0000	39,240.0000	0.7521	0.7194	39,478.8081
Landscaping	4.5613	1.7582	152.4082	8.0800e-003		0.8480	0.8480		0.8480	0.8480		275.4198	275.4198	0.2624		280.9308
Total	82.5698	1.7583	152.6044	8.0800e-003		3.3332	3.3332		3.3071	3.3071	0.0000	39,515.4198	39,515.4198	1.0145	0.7194	39,759.7389

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	19.8609					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	54.5506					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	3.5970	1.6000e-004	0.1962	0.0000		2.4852	2.4852		2.4590	2.4590	0.0000	39,240.0000	39,240.0000	0.7521	0.7194	39,478.8081
Landscaping	4.5613	1.7582	152.4082	8.0800e-003		0.8480	0.8480		0.8480	0.8480		275.4198	275.4198	0.2624		280.9308
Total	82.5698	1.7583	152.6044	8.0800e-003		3.3332	3.3332		3.3071	3.3071	0.0000	39,515.4198	39,515.4198	1.0145	0.7194	39,759.7389

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

7722 Encinitas HEU - Modified Mixed-Use Places
San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	3,261.00	Dwelling Unit	85.82	3,261,000.00	9326
Strip Mall	1,610.07	1000sqft	64.39	1,610,066.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	556.22	CH4 Intensity (lb/MWhr)	0.022	N2O Intensity (lb/MWhr)	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS 33% goal
 CalEEMod accounts for 10.2%
 22.8% difference applied to intensity factors

Land Use - 3,261 units
 1,610,066 SF commercial
 150.21 acres

Construction Phase - Construction calculated separately

Vehicle Trips - 84,915 trips compared to baseline
 1.3% reduction in VMT

Woodstoves - No woodstoves, natural gas fireplaces only

Area Coating - SDAPCD VOC content limit = 150 g/L

Energy Use - 2013 Title 24:

Multi-family - 23.3% increase in electricity efficiency, 3.8% increase in natural gas efficiency
 Non-residential - 21.8% increase in electricity efficiency, 16.8% increase in natural gas efficiency

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblConstructionPhase	NumDays	3,100.00	1.00
tblEnergyUse	T24E	160.77	123.31
tblEnergyUse	T24E	3.89	3.04
tblEnergyUse	T24NG	3,820.47	3,675.29
tblEnergyUse	T24NG	1.20	1.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	1,793.55	3,261.00
tblFireplaces	NumberNoFireplace	326.10	0.00
tblFireplaces	NumberWood	1,141.35	0.00
tblLandUse	LandUseSquareFeet	1,610,070.00	1,610,066.00
tblLandUse	LotAcreage	36.96	64.39
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022

tblProjectCharacteristics	CO2IntensityFactor	720.49	556.22
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	OperationalYear	2014	2035
tblVehicleTrips	CC_TL	7.30	5.72
tblVehicleTrips	CNW_TL	7.30	5.72
tblVehicleTrips	CW_TL	9.50	5.72
tblVehicleTrips	HO_TL	7.50	5.72
tblVehicleTrips	HS_TL	7.30	5.72
tblVehicleTrips	HW_TL	10.80	5.72
tblVehicleTrips	ST_TR	7.16	2.59
tblVehicleTrips	ST_TR	42.04	47.49
tblVehicleTrips	SU_TR	6.07	2.59
tblVehicleTrips	SU_TR	20.43	47.49
tblVehicleTrips	WD_TR	6.59	2.59
tblVehicleTrips	WD_TR	44.32	47.49
tblWoodstoves	NumberCatalytic	163.05	0.00
tblWoodstoves	NumberNoncatalytic	163.05	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	155.7542	3.0948	268.5997	0.0142		5.8661	5.8661		5.8201	5.8201	0.0000	69,541.25 20	69,541.25 20	1.7856	1.2660	69,971.22 14
Energy	0.6137	5.2983	2.6292	0.0335		0.4240	0.4240		0.4240	0.4240		6,694.582 0	6,694.582 0	0.1283	0.1227	6,735.324 1
Mobile	148.7779	176.3553	1,143.286 6	3.2179	219.1689	3.9931	223.1620	58.4943	3.6903	62.1846		224,071.1 331	224,071.1 331	7.1993		224,222.3 191
Total	305.1458	184.7483	1,414.515 5	3.2656	219.1689	10.2832	229.4521	58.4943	9.9343	68.4286	0.0000	300,306.9 671	300,306.9 671	9.1133	1.3888	300,928.8 646

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	155.7542	3.0948	268.5997	0.0142		5.8661	5.8661		5.8201	5.8201	0.0000	69,541.25 20	69,541.25 20	1.7856	1.2660	69,971.22 14
Energy	0.6137	5.2983	2.6292	0.0335		0.4240	0.4240		0.4240	0.4240		6,694.582 0	6,694.582 0	0.1283	0.1227	6,735.324 1
Mobile	148.7779	176.3553	1,143.286 6	3.2179	219.1689	3.9931	223.1620	58.4943	3.6903	62.1846		224,071.1 331	224,071.1 331	7.1993		224,222.3 191
Total	305.1458	184.7483	1,414.515 5	3.2656	219.1689	10.2832	229.4521	58.4943	9.9343	68.4286	0.0000	300,306.9 671	300,306.9 671	9.1133	1.3888	300,928.8 646

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/1/2016	1/1/2016	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

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
Building Construction	9	2,863.00	612.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

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	7.3855	59.4060	91.6235	0.1449	4.0621	0.8862	4.9483	1.1589	0.8150	1.9739		14,489.6637	14,489.6637	0.1157		14,492.0931
Worker	10.6085	13.1782	124.4330	0.2798	23.5189	0.1765	23.6953	6.2383	0.1622	6.4005		23,352.6726	23,352.6726	1.2459		23,378.8360
Total	17.9940	72.5842	216.0565	0.4247	27.5810	1.0627	28.6437	7.3972	0.9772	8.3744		37,842.3363	37,842.3363	1.3616		37,870.9291

3.2 Building Construction - 2016

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890

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	7.3855	59.4060	91.6235	0.1449	4.0621	0.8862	4.9483	1.1589	0.8150	1.9739		14,489.6637	14,489.6637	0.1157		14,492.0931
Worker	10.6085	13.1782	124.4330	0.2798	23.5189	0.1765	23.6953	6.2383	0.1622	6.4005		23,352.6726	23,352.6726	1.2459		23,378.8360
Total	17.9940	72.5842	216.0565	0.4247	27.5810	1.0627	28.6437	7.3972	0.9772	8.3744		37,842.3363	37,842.3363	1.3616		37,870.9291

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	148.7779	176.3553	1,143,286.6	3.2179	219.1689	3.9931	223.1620	58.4943	3.6903	62.1846		224,071.1331	224,071.1331	7.1993		224,222.3191
Unmitigated	148.7779	176.3553	1,143,286.6	3.2179	219.1689	3.9931	223.1620	58.4943	3.6903	62.1846		224,071.1331	224,071.1331	7.1993		224,222.3191

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	8,445.99	8,445.99	8445.99	15,616,112	15,616,112
Strip Mall	76,462.22	76,462.22	76462.22	87,977,741	87,977,741
Total	84,908.21	84,908.21	84,908.21	103,593,853	103,593,853

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
Apartments Mid Rise	5.72	5.72	5.72	41.60	18.80	39.60	86	11	3
Strip Mall	5.72	5.72	5.72	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511887	0.074493	0.190892	0.129437	0.036275	0.005211	0.012579	0.024993	0.001957	0.001971	0.006467	0.000450	0.003389

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.6137	5.2983	2.6292	0.0335		0.4240	0.4240		0.4240	0.4240		6,694.5820	6,694.5820	0.1283	0.1227	6,735.3241
NaturalGas Unmitigated	0.6137	5.2983	2.6292	0.0335		0.4240	0.4240		0.4240	0.4240		6,694.5820	6,694.5820	0.1283	0.1227	6,735.3241

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	9219.28	0.0994	0.9039	0.7592	5.4200e-003		0.0687	0.0687		0.0687	0.0687		1,084.6214	1,084.6214	0.0208	0.0199	1,091.2222
Apartments Mid Rise	47684.7	0.5143	4.3945	1.8700	0.0281		0.3553	0.3553		0.3553	0.3553		5,609.9606	5,609.9606	0.1075	0.1029	5,644.1019
Total		0.6137	5.2983	2.6292	0.0335		0.4240	0.4240		0.4240	0.4240		6,694.5820	6,694.5820	0.1283	0.1227	6,735.3241

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	47.6847	0.5143	4.3945	1.8700	0.0281		0.3553	0.3553		0.3553	0.3553		5,609.9606	5,609.9606	0.1075	0.1029	5,644.1019
Strip Mall	9.21928	0.0994	0.9039	0.7592	5.4200e-003		0.0687	0.0687		0.0687	0.0687		1,084.6214	1,084.6214	0.0208	0.0199	1,091.2222
Total		0.6137	5.2983	2.6292	0.0335		0.4240	0.4240		0.4240	0.4240		6,694.5820	6,694.5820	0.1283	0.1227	6,735.3241

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	155.7542	3.0948	268.5997	0.0142		5.8661	5.8661		5.8201	5.8201	0.0000	69,541.2520	69,541.2520	1.7856	1.2660	69,971.2214
Unmitigated	155.7542	3.0948	268.5997	0.0142		5.8661	5.8661		5.8201	5.8201	0.0000	69,541.2520	69,541.2520	1.7856	1.2660	69,971.2214

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	37.1525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	104.2408					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6.3302	2.9000e-004	0.3453	0.0000		4.3736	4.3736		4.3275	4.3275	0.0000	69,056.4706	69,056.4706	1.3236	1.2660	69,476.7368
Landscaping	8.0308	3.0945	268.2544	0.0142		1.4925	1.4925		1.4925	1.4925		484.7814	484.7814	0.4621		494.4846
Total	155.7542	3.0948	268.5997	0.0142		5.8661	5.8661		5.8201	5.8201	0.0000	69,541.2520	69,541.2520	1.7856	1.2660	69,971.2214

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	37.1525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	104.2408					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6.3302	2.9000e-004	0.3453	0.0000		4.3736	4.3736		4.3275	4.3275	0.0000	69,056.4706	69,056.4706	1.3236	1.2660	69,476.7368
Landscaping	8.0308	3.0945	268.2544	0.0142		1.4925	1.4925		1.4925	1.4925		484.7814	484.7814	0.4621		494.4846
Total	155.7542	3.0948	268.5997	0.0142		5.8661	5.8661		5.8201	5.8201	0.0000	69,541.2520	69,541.2520	1.7856	1.2660	69,971.2214

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Encinitas HEU - ALT-2
San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	309.00	Dwelling Unit	11.09	309,000.00	884
Strip Mall	281.25	1000sqft	6.46	281,255.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 17.55 acres

309 units

281,255 commercial sf

Construction Phase -

Architectural Coating - SDAPCD VOC content limit = 150 g/L

Vehicle Trips - 1.3% reduction in trip length

Woodstoves - No woodstoves, all natural gas fireplaces

Area Coating - SDAPCD VOC content limit = 150 g/L

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	169.95	309.00
tblFireplaces	NumberNoFireplace	30.90	0.00
tblFireplaces	NumberWood	108.15	0.00
tblLandUse	LandUseSquareFeet	281,250.00	281,255.00
tblLandUse	LotAcreage	8.13	11.09
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	CC_TL	7.30	5.72
tblVehicleTrips	CNW_TL	7.30	5.72
tblVehicleTrips	CW_TL	9.50	5.72
tblVehicleTrips	HO_TL	7.50	5.72
tblVehicleTrips	HS_TL	7.30	5.72
tblVehicleTrips	HW_TL	10.80	5.72
tblVehicleTrips	ST_TR	7.16	2.59
tblVehicleTrips	ST_TR	42.04	47.49
tblVehicleTrips	SU_TR	6.07	2.59
tblVehicleTrips	SU_TR	20.43	47.49
tblVehicleTrips	WD_TR	6.59	2.59
tblVehicleTrips	WD_TR	44.32	47.49
tblWoodstoves	NumberCatalytic	15.45	0.00
tblWoodstoves	NumberNoncatalytic	15.45	0.00

tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	6.5536	74.9058	50.0067	0.0760	18.2141	3.5855	21.1539	9.9699	3.2986	12.6745	0.0000	7,084.579 0	7,084.579 0	1.9437	0.0000	7,125.396 5
2017	486.1069	34.5646	41.5359	0.0760	3.0874	1.8991	4.9865	0.8294	1.7815	2.6109	0.0000	6,925.103 1	6,925.103 1	0.7895	0.0000	6,941.681 7
Total	492.6604	109.4704	91.5426	0.1520	21.3015	5.4846	26.1404	10.7993	5.0801	15.2854	0.0000	14,009.68 21	14,009.68 21	2.7332	0.0000	14,067.07 81

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	6.5536	74.9058	50.0067	0.0760	18.2141	3.5855	21.1539	9.9699	3.2986	12.6745	0.0000	7,084.579 0	7,084.579 0	1.9437	0.0000	7,125.396 4
2017	486.1069	34.5646	41.5359	0.0760	3.0874	1.8991	4.9865	0.8294	1.7815	2.6109	0.0000	6,925.103 1	6,925.103 1	0.7895	0.0000	6,941.681 7
Total	492.6604	109.4704	91.5426	0.1520	21.3015	5.4846	26.1404	10.7993	5.0801	15.2854	0.0000	14,009.68 20	14,009.68 20	2.7332	0.0000	14,067.07 81

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	18.2687	0.2961	25.6393	1.3500e-003		0.5552	0.5552		0.5508	0.5508	0.0000	6,589.4936	6,589.4936	0.1703	0.1200	6,630.2599
Energy	0.0691	0.6007	0.3273	3.7700e-003		0.0477	0.0477		0.0477	0.0477		753.6365	753.6365	0.0144	0.0138	758.2230
Mobile	36.6897	48.3887	275.9501	0.5224	35.6469	0.6505	36.2974	9.5153	0.6004	10.1157		39,916.7315	39,916.7315	1.6987		39,952.4042
Total	55.0275	49.2855	301.9167	0.5275	35.6469	1.2534	36.9003	9.5153	1.1989	10.7143	0.0000	47,259.8616	47,259.8616	1.8835	0.1338	47,340.8871

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	18.2687	0.2961	25.6393	1.3500e-003		0.5552	0.5552		0.5508	0.5508	0.0000	6,589.4936	6,589.4936	0.1703	0.1200	6,630.2599
Energy	0.0691	0.6007	0.3273	3.7700e-003		0.0477	0.0477		0.0477	0.0477		753.6365	753.6365	0.0144	0.0138	758.2230
Mobile	36.6897	48.3887	275.9501	0.5224	35.6469	0.6505	36.2974	9.5153	0.6004	10.1157		39,916.7315	39,916.7315	1.6987		39,952.4042
Total	55.0275	49.2855	301.9167	0.5275	35.6469	1.2534	36.9003	9.5153	1.1989	10.7143	0.0000	47,259.8616	47,259.8616	1.8835	0.1338	47,340.8871

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2016	1/14/2016	5	10	
2	Grading	Grading	1/15/2016	2/25/2016	5	30	
3	Building Construction	Building Construction	2/26/2016	4/20/2017	5	300	
4	Paving	Paving	4/21/2017	5/18/2017	5	20	
5	Architectural Coating	Architectural Coating	5/19/2017	6/15/2017	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 625,725; Residential Outdoor: 208,575; Non-Residential Indoor: 421,883; Non-Residential Outdoor: 140,628 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	312.00	79.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	62.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000				0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.005 3	4,065.005 3	1.2262			4,090.754 4
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343		4,065.005 3	4,065.005 3	1.2262			4,090.754 4

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003			146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003			146.9854

3.2 Site Preparation - 2016

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036	0.0000	4,065.005 3	4,065.005 3	1.2262		4,090.754 4
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343	0.0000	4,065.005 3	4,065.005 3	1.2262		4,090.754 4

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854

3.3 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975		6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940		6,414.9807	6,414.9807	1.9350		6,455.6154

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	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171
Total	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171

3.3 Grading - 2016

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154

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	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171
Total	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171

3.4 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

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	0.9534	7.6684	11.8272	0.0187	0.5244	0.1144	0.6388	0.1496	0.1052	0.2548		1,870.3978	1,870.3978	0.0149		1,870.7114
Worker	1.1561	1.4361	13.5603	0.0305	2.5630	0.0192	2.5822	0.6798	0.0177	0.6975		2,544.8948	2,544.8948	0.1358		2,547.7460
Total	2.1094	9.1045	25.3875	0.0492	3.0874	0.1336	3.2210	0.8294	0.1229	0.9523		4,415.2926	4,415.2926	0.1507		4,418.4574

3.4 Building Construction - 2016

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890

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	0.9534	7.6684	11.8272	0.0187	0.5244	0.1144	0.6388	0.1496	0.1052	0.2548		1,870.3978	1,870.3978	0.0149		1,870.7114
Worker	1.1561	1.4361	13.5603	0.0305	2.5630	0.0192	2.5822	0.6798	0.0177	0.6975		2,544.8948	2,544.8948	0.1358		2,547.7460
Total	2.1094	9.1045	25.3875	0.0492	3.0874	0.1336	3.2210	0.8294	0.1229	0.9523		4,415.2926	4,415.2926	0.1507		4,418.4574

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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490

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	0.8711	6.8538	11.2023	0.0187	0.5244	0.0993	0.6237	0.1496	0.0913	0.2409		1,838.7555	1,838.7555	0.0141		1,839.0525
Worker	1.0474	1.3051	12.2045	0.0305	2.5630	0.0186	2.5816	0.6798	0.0172	0.6970		2,446.5422	2,446.5422	0.1256		2,449.1802
Total	1.9185	8.1589	23.4068	0.0492	3.0874	0.1179	3.2053	0.8294	0.1085	0.9379		4,285.2978	4,285.2978	0.1398		4,288.2327

3.4 Building Construction - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490

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	0.8711	6.8538	11.2023	0.0187	0.5244	0.0993	0.6237	0.1496	0.0913	0.2409		1,838.7555	1,838.7555	0.0141		1,839.0525
Worker	1.0474	1.3051	12.2045	0.0305	2.5630	0.0186	2.5816	0.6798	0.0172	0.6970		2,446.5422	2,446.5422	0.1256		2,449.1802
Total	1.9185	8.1589	23.4068	0.0492	3.0874	0.1179	3.2053	0.8294	0.1085	0.9379		4,285.2978	4,285.2978	0.1398		4,288.2327

3.5 Paving - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360

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	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491
Total	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491

3.5 Paving - 2017**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989		2,295.7360

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	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491
Total	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491

3.6 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	485.5664					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721
Total	485.8987	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2081	0.2594	2.4253	6.0600e-003	0.5093	3.7000e-003	0.5130	0.1351	3.4200e-003	0.1385		486.1719	486.1719	0.0250		486.6961
Total	0.2081	0.2594	2.4253	6.0600e-003	0.5093	3.7000e-003	0.5130	0.1351	3.4200e-003	0.1385		486.1719	486.1719	0.0250		486.6961

3.6 Architectural Coating - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	485.5664					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297			282.0721
Total	485.8987	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297			282.0721

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	0.2081	0.2594	2.4253	6.0600e-003	0.5093	3.7000e-003	0.5130	0.1351	3.4200e-003	0.1385		486.1719	486.1719	0.0250			486.6961
Total	0.2081	0.2594	2.4253	6.0600e-003	0.5093	3.7000e-003	0.5130	0.1351	3.4200e-003	0.1385		486.1719	486.1719	0.0250			486.6961

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	36.6897	48.3887	275.9501	0.5224	35.6469	0.6505	36.2974	9.5153	0.6004	10.1157		39,916.73 15	39,916.73 15	1.6987		39,952.40 42
Unmitigated	36.6897	48.3887	275.9501	0.5224	35.6469	0.6505	36.2974	9.5153	0.6004	10.1157		39,916.73 15	39,916.73 15	1.6987		39,952.40 42

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	800.31	800.31	800.31	1,479,724	1,479,724
Strip Mall	13,356.56	13,356.56	13,356.56	15,368,114	15,368,114
Total	14,156.87	14,156.87	14,156.87	16,847,838	16,847,838

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
Apartments Mid Rise	5.72	5.72	5.72	41.60	18.80	39.60	86	11	3
Strip Mall	5.72	5.72	5.72	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513300	0.073549	0.191092	0.130830	0.036094	0.005140	0.012550	0.022916	0.001871	0.002062	0.006564	0.000586	0.003446

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0691	0.6007	0.3273	3.7700e-003		0.0477	0.0477		0.0477	0.0477		753.6365	753.6365	0.0144	0.0138	758.2230
NaturalGas Unmitigated	0.0691	0.6007	0.3273	3.7700e-003		0.0477	0.0477		0.0477	0.0477		753.6365	753.6365	0.0144	0.0138	758.2230

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	4641.32	0.0501	0.4277	0.1820	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.0381	546.0381	0.0105	0.0100	549.3612
Strip Mall	1764.59	0.0190	0.1730	0.1453	1.0400e-003		0.0132	0.0132		0.0132	0.0132		207.5984	207.5984	3.9800e-003	3.8100e-003	208.8618
Total		0.0691	0.6007	0.3273	3.7700e-003		0.0477	0.0477		0.0477	0.0477		753.6365	753.6365	0.0145	0.0138	758.2230

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	4.64132	0.0501	0.4277	0.1820	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.0381	546.0381	0.0105	0.0100	549.3612
Strip Mall	1.76459	0.0190	0.1730	0.1453	1.0400e-003		0.0132	0.0132		0.0132	0.0132		207.5984	207.5984	3.9800e-003	3.8100e-003	208.8618
Total		0.0691	0.6007	0.3273	3.7700e-003		0.0477	0.0477		0.0477	0.0477		753.6365	753.6365	0.0145	0.0138	758.2230

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	18.2687	0.2961	25.6393	1.3500e-003		0.5552	0.5552		0.5508	0.5508	0.0000	6,589.4936	6,589.4936	0.1703	0.1200	6,630.2599
Unmitigated	18.2687	0.2961	25.6393	1.3500e-003		0.5552	0.5552		0.5508	0.5508	0.0000	6,589.4936	6,589.4936	0.1703	0.1200	6,630.2599

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	4.2558					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.6315					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5998	3.0000e-005	0.0327	0.0000		0.4144	0.4144		0.4101	0.4101	0.0000	6,543.5294	6,543.5294	0.1254	0.1200	6,583.3522
Landscaping	0.7816	0.2961	25.6065	1.3500e-003		0.1408	0.1408		0.1408	0.1408		45.9642	45.9642	0.0449		46.9076
Total	18.2687	0.2961	25.6393	1.3500e-003		0.5552	0.5552		0.5508	0.5508	0.0000	6,589.4936	6,589.4936	0.1703	0.1200	6,630.2599

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	4.2558					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.6315					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5998	3.0000e-005	0.0327	0.0000		0.4144	0.4144		0.4101	0.4101	0.0000	6,543.5294	6,543.5294	0.1254	0.1200	6,583.3522
Landscaping	0.7816	0.2961	25.6065	1.3500e-003		0.1408	0.1408		0.1408	0.1408		45.9642	45.9642	0.0449		46.9076
Total	18.2687	0.2961	25.6393	1.3500e-003		0.5552	0.5552		0.5508	0.5508	0.0000	6,589.4936	6,589.4936	0.1703	0.1200	6,630.2599

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Encinitas HEU - ALT-3
San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	291.00	Dwelling Unit	9.76	291,000.00	832
Strip Mall	209.21	1000sqft	4.80	209,207.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 14.56 acres

291 units

209,207 commercial sf

Construction Phase -

Architectural Coating - SDAPCD VOC content limit = 150 g/L

Vehicle Trips - 1.3% reduction in trip length

Woodstoves - No woodstoves, all natural gas fireplaces

Area Coating - SDAPCD VOC content limit = 150 g/L

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	160.05	291.00
tblFireplaces	NumberNoFireplace	29.10	0.00
tblFireplaces	NumberWood	101.85	0.00
tblLandUse	LandUseSquareFeet	209,210.00	209,207.00
tblLandUse	LotAcreage	7.66	9.76
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	CC_TL	7.30	5.72
tblVehicleTrips	CNW_TL	7.30	5.72
tblVehicleTrips	CW_TL	9.50	5.72
tblVehicleTrips	HO_TL	7.50	5.72
tblVehicleTrips	HS_TL	7.30	5.72
tblVehicleTrips	HW_TL	10.80	5.72
tblVehicleTrips	ST_TR	7.16	2.59
tblVehicleTrips	ST_TR	42.04	47.49
tblVehicleTrips	SU_TR	6.07	2.59
tblVehicleTrips	SU_TR	20.43	47.49
tblVehicleTrips	WD_TR	6.59	2.59
tblVehicleTrips	WD_TR	44.32	47.49
tblWoodstoves	NumberCatalytic	14.55	0.00
tblWoodstoves	NumberNoncatalytic	14.55	0.00

tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	6.5536	74.9058	50.0067	0.0692	18.2141	3.5855	21.1539	9.9699	3.2986	12.6745	0.0000	6,578.1150	6,578.1150	1.9437	0.0000	6,618.9325
2017	419.0974	33.1994	38.1425	0.0691	2.6987	1.8794	4.5781	0.7245	1.7633	2.4878	0.0000	6,316.9543	6,316.9543	0.7725	0.0000	6,333.1759
Total	425.6510	108.1052	88.1491	0.1383	20.9129	5.4649	25.7320	10.6944	5.0619	15.1623	0.0000	12,895.0693	12,895.0693	2.7162	0.0000	12,952.1084

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	6.5536	74.9058	50.0067	0.0692	18.2141	3.5855	21.1539	9.9699	3.2986	12.6745	0.0000	6,578.1150	6,578.1150	1.9437	0.0000	6,618.9325
2017	419.0974	33.1994	38.1425	0.0691	2.6987	1.8794	4.5781	0.7245	1.7633	2.4878	0.0000	6,316.9543	6,316.9543	0.7725	0.0000	6,333.1759
Total	425.6510	108.1052	88.1491	0.1383	20.9129	5.4649	25.7320	10.6944	5.0619	15.1623	0.0000	12,895.0693	12,895.0693	2.7162	0.0000	12,952.1084

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	15.6947	0.2788	24.1400	1.2700e-003		0.5228	0.5228		0.5187	0.5187	0.0000	6,205.6275	6,205.6275	0.1604	0.1130	6,244.0183
Energy	0.0613	0.5315	0.2795	3.3400e-003		0.0424	0.0424		0.0424	0.0424		668.6488	668.6488	0.0128	0.0123	672.7181
Mobile	27.7396	36.7387	209.1306	0.3974	27.1358	0.4944	27.6302	7.2434	0.4564	7.6998		30,370.1288	30,370.1288	1.2910		30,397.2388
Total	43.4955	37.5490	233.5501	0.4020	27.1358	1.0596	28.1954	7.2434	1.0174	8.2609	0.0000	37,244.4050	37,244.4050	1.4642	0.1252	37,313.9752

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	15.6947	0.2788	24.1400	1.2700e-003		0.5228	0.5228		0.5187	0.5187	0.0000	6,205.6275	6,205.6275	0.1604	0.1130	6,244.0183
Energy	0.0613	0.5315	0.2795	3.3400e-003		0.0424	0.0424		0.0424	0.0424		668.6488	668.6488	0.0128	0.0123	672.7181
Mobile	27.7396	36.7387	209.1306	0.3974	27.1358	0.4944	27.6302	7.2434	0.4564	7.6998		30,370.1288	30,370.1288	1.2910		30,397.2388
Total	43.4955	37.5490	233.5501	0.4020	27.1358	1.0596	28.1954	7.2434	1.0174	8.2609	0.0000	37,244.4050	37,244.4050	1.4642	0.1252	37,313.9752

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2016	1/14/2016	5	10	
2	Grading	Grading	1/15/2016	2/25/2016	5	30	
3	Building Construction	Building Construction	2/26/2016	4/20/2017	5	300	
4	Paving	Paving	4/21/2017	5/18/2017	5	20	
5	Architectural Coating	Architectural Coating	5/19/2017	6/15/2017	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 589,275; Residential Outdoor: 196,425; Non-Residential Indoor: 313,811; Non-Residential Outdoor: 104,604 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	276.00	65.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	55.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.005 3	4,065.005 3	1.2262		4,090.754 4
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343		4,065.005 3	4,065.005 3	1.2262		4,090.754 4

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854

3.2 Site Preparation - 2016

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036	0.0000	4,065.005 3	4,065.005 3	1.2262		4,090.754 4
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343	0.0000	4,065.005 3	4,065.005 3	1.2262		4,090.754 4

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854

3.3 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975		6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940		6,414.9807	6,414.9807	1.9350		6,455.6154

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	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171
Total	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171

3.3 Grading - 2016

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154

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	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171
Total	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171

3.4 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

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	0.7844	6.3095	9.7313	0.0154	0.4314	0.0941	0.5256	0.1231	0.0866	0.2096		1,538.9349	1,538.9349	0.0123		1,539.1929
Worker	1.0227	1.2704	11.9956	0.0270	2.2673	0.0170	2.2843	0.6014	0.0156	0.6170		2,251.2531	2,251.2531	0.1201		2,253.7753
Total	1.8071	7.5799	21.7269	0.0424	2.6987	0.1111	2.8099	0.7245	0.1022	0.8267		3,790.1880	3,790.1880	0.1324		3,792.9682

3.4 Building Construction - 2016

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890

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	0.7844	6.3095	9.7313	0.0154	0.4314	0.0941	0.5256	0.1231	0.0866	0.2096		1,538.9349	1,538.9349	0.0123		1,539.1929
Worker	1.0227	1.2704	11.9956	0.0270	2.2673	0.0170	2.2843	0.6014	0.0156	0.6170		2,251.2531	2,251.2531	0.1201		2,253.7753
Total	1.8071	7.5799	21.7269	0.0424	2.6987	0.1111	2.8099	0.7245	0.1022	0.8267		3,790.1880	3,790.1880	0.1324		3,792.9682

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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490

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	0.7168	5.6392	9.2170	0.0154	0.4315	0.0817	0.5131	0.1231	0.0751	0.1982		1,512.9001	1,512.9001	0.0116		1,513.1444
Worker	0.9265	1.1545	10.7963	0.0270	2.2673	0.0165	2.2838	0.6014	0.0152	0.6166		2,164.2489	2,164.2489	0.1111		2,166.5825
Total	1.6433	6.7937	20.0134	0.0423	2.6987	0.0982	2.7969	0.7245	0.0903	0.8148		3,677.1490	3,677.1490	0.1228		3,679.7269

3.4 Building Construction - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490

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	0.7168	5.6392	9.2170	0.0154	0.4315	0.0817	0.5131	0.1231	0.0751	0.1982		1,512.9001	1,512.9001	0.0116		1,513.1444
Worker	0.9265	1.1545	10.7963	0.0270	2.2673	0.0165	2.2838	0.6014	0.0152	0.6166		2,164.2489	2,164.2489	0.1111		2,166.5825
Total	1.6433	6.7937	20.0134	0.0423	2.6987	0.0982	2.7969	0.7245	0.0903	0.8148		3,677.1490	3,677.1490	0.1228		3,679.7269

3.5 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360

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	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491
Total	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491

3.5 Paving - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989		2,295.7360

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	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491
Total	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491

3.6 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	418.5805					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721
Total	418.9128	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1846	0.2301	2.1514	5.3700e-003	0.4518	3.2900e-003	0.4551	0.1198	3.0300e-003	0.1229		431.2815	431.2815	0.0221		431.7465
Total	0.1846	0.2301	2.1514	5.3700e-003	0.4518	3.2900e-003	0.4551	0.1198	3.0300e-003	0.1229		431.2815	431.2815	0.0221		431.7465

3.6 Architectural Coating - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	418.5805					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721
Total	418.9128	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721

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	0.1846	0.2301	2.1514	5.3700e-003	0.4518	3.2900e-003	0.4551	0.1198	3.0300e-003	0.1229		431.2815	431.2815	0.0221		431.7465
Total	0.1846	0.2301	2.1514	5.3700e-003	0.4518	3.2900e-003	0.4551	0.1198	3.0300e-003	0.1229		431.2815	431.2815	0.0221		431.7465

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	27.7396	36.7387	209.1306	0.3974	27.1358	0.4944	27.6302	7.2434	0.4564	7.6998		30,370.1288	30,370.1288	1.2910		30,397.2388
Unmitigated	27.7396	36.7387	209.1306	0.3974	27.1358	0.4944	27.6302	7.2434	0.4564	7.6998		30,370.1288	30,370.1288	1.2910		30,397.2388

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	753.69	753.69	753.69	1,393,526	1,393,526
Strip Mall	9,935.38	9,935.38	9,935.38	11,431,691	11,431,691
Total	10,689.07	10,689.07	10,689.07	12,825,217	12,825,217

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
Apartments Mid Rise	5.72	5.72	5.72	41.60	18.80	39.60	86	11	3
Strip Mall	5.72	5.72	5.72	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513300	0.073549	0.191092	0.130830	0.036094	0.005140	0.012550	0.022916	0.001871	0.002062	0.006564	0.000586	0.003446

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0613	0.5315	0.2795	3.3400e-003		0.0424	0.0424		0.0424	0.0424		668.6488	668.6488	0.0128	0.0123	672.7181
NaturalGas Unmitigated	0.0613	0.5315	0.2795	3.3400e-003		0.0424	0.0424		0.0424	0.0424		668.6488	668.6488	0.0128	0.0123	672.7181

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	4370.96	0.0471	0.4028	0.1714	2.5700e-003		0.0326	0.0326		0.0326	0.0326		514.2301	514.2301	9.8600e-003	9.4300e-003	517.3596
Strip Mall	1312.56	0.0142	0.1287	0.1081	7.7000e-004		9.7800e-003	9.7800e-003		9.7800e-003	9.7800e-003		154.4187	154.4187	2.9600e-003	2.8300e-003	155.3585
Total		0.0613	0.5315	0.2795	3.3400e-003		0.0424	0.0424		0.0424	0.0424		668.6488	668.6488	0.0128	0.0123	672.7181

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	4.37096	0.0471	0.4028	0.1714	2.5700e-003		0.0326	0.0326		0.0326	0.0326		514.2301	514.2301	9.8600e-003	9.4300e-003	517.3596
Strip Mall	1.31256	0.0142	0.1287	0.1081	7.7000e-004		9.7800e-003	9.7800e-003		9.7800e-003	9.7800e-003		154.4187	154.4187	2.9600e-003	2.8300e-003	155.3585
Total		0.0613	0.5315	0.2795	3.3400e-003		0.0424	0.0424		0.0424	0.0424		668.6488	668.6488	0.0128	0.0123	672.7181

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	15.6947	0.2788	24.1400	1.2700e-003		0.5228	0.5228		0.5187	0.5187	0.0000	6,205.6275	6,205.6275	0.1604	0.1130	6,244.0183
Unmitigated	15.6947	0.2788	24.1400	1.2700e-003		0.5228	0.5228		0.5187	0.5187	0.0000	6,205.6275	6,205.6275	0.1604	0.1130	6,244.0183

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	3.6898					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.7044					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5649	3.0000e-005	0.0308	0.0000		0.3903	0.3903		0.3862	0.3862	0.0000	6,162.3529	6,162.3529	0.1181	0.1130	6,199.8560
Landscaping	0.7355	0.2788	24.1092	1.2700e-003		0.1325	0.1325		0.1325	0.1325		43.2745	43.2745	0.0423		44.1623
Total	15.6946	0.2788	24.1400	1.2700e-003		0.5228	0.5228		0.5187	0.5187	0.0000	6,205.6275	6,205.6275	0.1604	0.1130	6,244.0183

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	3.6898					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.7044					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5649	3.0000e-005	0.0308	0.0000		0.3903	0.3903		0.3862	0.3862	0.0000	6,162.3529	6,162.3529	0.1181	0.1130	6,199.8560
Landscaping	0.7355	0.2788	24.1092	1.2700e-003		0.1325	0.1325		0.1325	0.1325		43.2745	43.2745	0.0423		44.1623
Total	15.6946	0.2788	24.1400	1.2700e-003		0.5228	0.5228		0.5187	0.5187	0.0000	6,205.6275	6,205.6275	0.1604	0.1130	6,244.0183

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Encinitas HEU - ALT-5
San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	338.00	Dwelling Unit	11.27	338,000.00	967

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 11.27 acres

338 units

0 commercial sf

Construction Phase -

Architectural Coating - SDAPCD VOC content limit = 150 g/L

Vehicle Trips - 1.3% reduction in trip length

Woodstoves - No woodstoves, all natural gas fireplaces

Area Coating - SDAPCD VOC content limit = 150 g/L

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	150
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	185.90	338.00
tblFireplaces	NumberNoFireplace	33.80	0.00
tblFireplaces	NumberWood	118.30	0.00
tblLandUse	LotAcreage	8.89	11.27
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	HO_TL	7.50	5.72
tblVehicleTrips	HS_TL	7.30	5.72
tblVehicleTrips	HW_TL	10.80	5.72
tblVehicleTrips	ST_TR	7.16	2.59
tblVehicleTrips	SU_TR	6.07	2.59
tblVehicleTrips	WD_TR	6.59	2.59
tblWoodstoves	NumberCatalytic	16.90	0.00
tblWoodstoves	NumberNoncatalytic	16.90	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	10.4796	0.3236	28.0139	1.4700e-003		0.6072	0.6072		0.6024	0.6024	0.0000	7,207.8578	7,207.8578	0.1862	0.1312	7,252.4462
Energy	0.0548	0.4679	0.1991	2.9900e-003		0.0378	0.0378		0.0378	0.0378		597.2844	597.2844	0.0115	0.0110	600.9194
Mobile	2.4744	4.1147	21.3528	0.0490	3.4247	0.0584	3.4831	0.9142	0.0539	0.9681		3,746.3575	3,746.3575	0.1513		3,749.5338
Total	13.0087	4.9061	49.5658	0.0534	3.4247	0.7034	4.1281	0.9142	0.6941	1.6083	0.0000	11,551.4996	11,551.4996	0.3489	0.1422	11,602.8993

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	10.4796	0.3236	28.0139	1.4700e-003		0.6072	0.6072		0.6024	0.6024	0.0000	7,207.8578	7,207.8578	0.1862	0.1312	7,252.4462
Energy	0.0548	0.4679	0.1991	2.9900e-003		0.0378	0.0378		0.0378	0.0378		597.2844	597.2844	0.0115	0.0110	600.9194
Mobile	2.4744	4.1147	21.3528	0.0490	3.4247	0.0584	3.4831	0.9142	0.0539	0.9681		3,746.3575	3,746.3575	0.1513		3,749.5338
Total	13.0087	4.9061	49.5658	0.0534	3.4247	0.7034	4.1281	0.9142	0.6941	1.6083	0.0000	11,551.4996	11,551.4996	0.3489	0.1422	11,602.8993

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2016	1/14/2016	5	10	
2	Grading	Grading	1/15/2016	2/25/2016	5	30	
3	Building Construction	Building Construction	2/26/2016	4/20/2017	5	300	
4	Paving	Paving	4/21/2017	5/18/2017	5	20	
5	Architectural Coating	Architectural Coating	5/19/2017	6/15/2017	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 684,450; Residential Outdoor: 228,150; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	243.00	36.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	49.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.0053	4,065.0053	1.2262		4,090.7544
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343		4,065.0053	4,065.0053	1.2262		4,090.7544

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854

3.2 Site Preparation - 2016

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036	0.0000	4,065.005 3	4,065.005 3	1.2262		4,090.754 4
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343	0.0000	4,065.005 3	4,065.005 3	1.2262		4,090.754 4

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854

3.3 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975		6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940		6,414.9807	6,414.9807	1.9350		6,455.6154

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	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171
Total	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171

3.3 Grading - 2016

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154

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	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171
Total	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171

3.4 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

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	0.4344	3.4945	5.3896	8.5200e-003	0.2390	0.0521	0.2911	0.0682	0.0479	0.1161		852.3332	852.3332	6.8000e-003		852.4761
Worker	0.9004	1.1185	10.5614	0.0238	1.9962	0.0150	2.0112	0.5295	0.0138	0.5433		1,982.0815	1,982.0815	0.1058		1,984.3022
Total	1.3349	4.6130	15.9510	0.0323	2.2351	0.0671	2.3023	0.5977	0.0617	0.6594		2,834.4147	2,834.4147	0.1126		2,836.7783

3.4 Building Construction - 2016

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890

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	0.4344	3.4945	5.3896	8.5200e-003	0.2390	0.0521	0.2911	0.0682	0.0479	0.1161		852.3332	852.3332	6.8000e-003		852.4761
Worker	0.9004	1.1185	10.5614	0.0238	1.9962	0.0150	2.0112	0.5295	0.0138	0.5433		1,982.0815	1,982.0815	0.1058		1,984.3022
Total	1.3349	4.6130	15.9510	0.0323	2.2351	0.0671	2.3023	0.5977	0.0617	0.6594		2,834.4147	2,834.4147	0.1126		2,836.7783

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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490

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	0.3970	3.1233	5.1048	8.5100e-003	0.2390	0.0452	0.2842	0.0682	0.0416	0.1098		837.9139	837.9139	6.4400e-003		838.0492
Worker	0.8157	1.0165	9.5054	0.0237	1.9962	0.0145	2.0107	0.5295	0.0134	0.5429		1,905.4800	1,905.4800	0.0978		1,907.5346
Total	1.2127	4.1397	14.6103	0.0323	2.2352	0.0598	2.2949	0.5977	0.0550	0.6527		2,743.3939	2,743.3939	0.1043		2,745.5838

3.4 Building Construction - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490

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	0.3970	3.1233	5.1048	8.5100e-003	0.2390	0.0452	0.2842	0.0682	0.0416	0.1098		837.9139	837.9139	6.4400e-003		838.0492
Worker	0.8157	1.0165	9.5054	0.0237	1.9962	0.0145	2.0107	0.5295	0.0134	0.5429		1,905.4800	1,905.4800	0.0978		1,907.5346
Total	1.2127	4.1397	14.6103	0.0323	2.2352	0.0598	2.2949	0.5977	0.0550	0.6527		2,743.3939	2,743.3939	0.1043		2,745.5838

3.5 Paving - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360

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	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491
Total	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491

3.5 Paving - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989		2,295.7360

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	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491
Total	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491

3.6 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	317.2426					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721
Total	317.5749	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1645	0.2050	1.9167	4.7900e-003	0.4025	2.9300e-003	0.4055	0.1068	2.7000e-003	0.1095		384.2326	384.2326	0.0197		384.6469
Total	0.1645	0.2050	1.9167	4.7900e-003	0.4025	2.9300e-003	0.4055	0.1068	2.7000e-003	0.1095		384.2326	384.2326	0.0197		384.6469

3.6 Architectural Coating - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	317.2426					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721
Total	317.5749	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721

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	0.1645	0.2050	1.9167	4.7900e-003	0.4025	2.9300e-003	0.4055	0.1068	2.7000e-003	0.1095		384.2326	384.2326	0.0197		384.6469
Total	0.1645	0.2050	1.9167	4.7900e-003	0.4025	2.9300e-003	0.4055	0.1068	2.7000e-003	0.1095		384.2326	384.2326	0.0197		384.6469

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.4744	4.1147	21.3528	0.0490	3.4247	0.0584	3.4831	0.9142	0.0539	0.9681		3,746.3575	3,746.3575	0.1513		3,749.5338
Unmitigated	2.4744	4.1147	21.3528	0.0490	3.4247	0.0584	3.4831	0.9142	0.0539	0.9681		3,746.3575	3,746.3575	0.1513		3,749.5338

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	875.42	875.42	875.42	1,618,597	1,618,597
Total	875.42	875.42	875.42	1,618,597	1,618,597

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
Apartments Mid Rise	5.72	5.72	5.72	41.60	18.80	39.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513300	0.073549	0.191092	0.130830	0.036094	0.005140	0.012550	0.022916	0.001871	0.002062	0.006564	0.000586	0.003446

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0548	0.4679	0.1991	2.9900e-003		0.0378	0.0378		0.0378	0.0378		597.2844	597.2844	0.0115	0.0110	600.9194
NaturalGas Unmitigated	0.0548	0.4679	0.1991	2.9900e-003		0.0378	0.0378		0.0378	0.0378		597.2844	597.2844	0.0115	0.0110	600.9194

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	5076.92	0.0548	0.4679	0.1991	2.9900e-003		0.0378	0.0378		0.0378	0.0378		597.2844	597.2844	0.0115	0.0110	600.9194
Total		0.0548	0.4679	0.1991	2.9900e-003		0.0378	0.0378		0.0378	0.0378		597.2844	597.2844	0.0115	0.0110	600.9194

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	5.07692	0.0548	0.4679	0.1991	2.9900e-003		0.0378	0.0378		0.0378	0.0378		597.2844	597.2844	0.0115	0.0110	600.9194
Total		0.0548	0.4679	0.1991	2.9900e-003		0.0378	0.0378		0.0378	0.0378		597.2844	597.2844	0.0115	0.0110	600.9194

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	10.4796	0.3236	28.0139	1.4700e-003		0.6072	0.6072		0.6024	0.6024	0.0000	7,207.8578	7,207.8578	0.1862	0.1312	7,252.4462
Unmitigated	10.4796	0.3236	28.0139	1.4700e-003		0.6072	0.6072		0.6024	0.6024	0.0000	7,207.8578	7,207.8578	0.1862	0.1312	7,252.4462

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	1.7383					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.2332					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.6561	3.0000e-005	0.0358	0.0000		0.4533	0.4533		0.4486	0.4486	0.0000	7,157.6471	7,157.6471	0.1372	0.1312	7,201.2073
Landscaping	0.8520	0.3236	27.9781	1.4700e-003		0.1538	0.1538		0.1538	0.1538		50.2107	50.2107	0.0490		51.2389
Total	10.4796	0.3236	28.0139	1.4700e-003		0.6072	0.6072		0.6024	0.6024	0.0000	7,207.8578	7,207.8578	0.1862	0.1312	7,252.4462

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					
Consumer Products	7.2332					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.6561	3.0000e-005	0.0358	0.0000		0.4533	0.4533		0.4486	0.4486	0.0000	7,157.6471	7,157.6471	0.1372	0.1312	7,201.2073
Landscaping	0.8520	0.3236	27.9781	1.4700e-003		0.1538	0.1538		0.1538	0.1538		50.2107	50.2107	0.0490		51.2389
Architectural Coating	1.7383					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	10.4796	0.3236	28.0139	1.4700e-003		0.6072	0.6072		0.6024	0.6024	0.0000	7,207.8578	7,207.8578	0.1862	0.1312	7,252.4462

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Encinitas HEU - ALT-7
San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	416.00	Dwelling Unit	10.67	416,000.00	1190
Strip Mall	450.90	1000sqft	10.35	450,900.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 21.02 acres

416 units

450,900 commercial sf

Construction Phase -

Architectural Coating - SDAPCD VOC content limit = 150 g/L

Vehicle Trips - 1.3% reduction in trip length

Woodstoves - No woodstoves, all natural gas fireplaces

Area Coating - SDAPCD VOC content limit = 150 g/L

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	228.80	416.00
tblFireplaces	NumberNoFireplace	41.60	0.00
tblFireplaces	NumberWood	145.60	0.00
tblLandUse	LotAcreage	10.95	10.67
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	CC_TL	7.30	5.72
tblVehicleTrips	CNW_TL	7.30	5.72
tblVehicleTrips	CW_TL	9.50	5.72
tblVehicleTrips	HO_TL	7.50	5.72
tblVehicleTrips	HS_TL	7.30	5.72
tblVehicleTrips	HW_TL	10.80	5.72
tblVehicleTrips	ST_TR	7.16	2.59
tblVehicleTrips	ST_TR	42.04	47.49
tblVehicleTrips	SU_TR	6.07	2.59
tblVehicleTrips	SU_TR	20.43	47.49
tblVehicleTrips	WD_TR	6.59	2.59
tblVehicleTrips	WD_TR	44.32	47.49
tblWoodstoves	NumberCatalytic	20.80	0.00
tblWoodstoves	NumberNoncatalytic	20.80	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00

tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
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2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	6.5536	74.9058	55.4699	0.0981	18.2141	3.5855	21.1539	9.9699	3.2986	12.6745	0.0000	9,084.626 2	9,084.626 2	1.9437	0.0000	9,125.443 6
2017	704.5717	38.5003	52.2296	0.0981	4.4306	1.9560	6.3866	1.1909	1.8338	3.0247	0.0000	8,867.918 7	8,867.918 7	0.8496	0.0000	8,885.760 0
Total	711.1253	113.4061	107.6995	0.1962	22.6447	5.5415	27.5405	11.1608	5.1325	15.6992	0.0000	17,952.54 49	17,952.54 49	2.7933	0.0000	18,011.20 36

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	6.5536	74.9058	55.4699	0.0981	18.2141	3.5855	21.1539	9.9699	3.2986	12.6745	0.0000	9,084.626 2	9,084.626 2	1.9437	0.0000	9,125.443 6
2017	704.5717	38.5003	52.2296	0.0981	4.4306	1.9560	6.3866	1.1909	1.8338	3.0247	0.0000	8,867.918 7	8,867.918 7	0.8496	0.0000	8,885.760 0
Total	711.1253	113.4061	107.6995	0.1962	22.6447	5.5415	27.5405	11.1608	5.1325	15.6992	0.0000	17,952.54 49	17,952.54 49	2.7933	0.0000	18,011.20 36

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	26.5545	0.3987	34.5250	1.8200e-003		0.7474	0.7474		0.7416	0.7416	0.0000	8,871.3082	8,871.3082	0.2294	0.1615	8,926.1918
Energy	0.0979	0.8532	0.4780	5.3400e-003		0.0676	0.0676		0.0676	0.0676		1,067.9351	1,067.9351	0.0205	0.0196	1,074.4343
Mobile	58.2397	76.6103	437.3879	0.8259	56.3447	1.0291	57.3738	15.0403	0.9499	15.9902		63,114.5665	63,114.5665	2.6878		63,171.0111
Total	84.8921	77.8622	472.3909	0.8331	56.3447	1.8442	58.1889	15.0403	1.7591	16.7994	0.0000	73,053.8098	73,053.8098	2.9377	0.1811	73,171.6372

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	26.5545	0.3987	34.5250	1.8200e-003		0.7474	0.7474		0.7416	0.7416	0.0000	8,871.3082	8,871.3082	0.2294	0.1615	8,926.1918
Energy	0.0979	0.8532	0.4780	5.3400e-003		0.0676	0.0676		0.0676	0.0676		1,067.9351	1,067.9351	0.0205	0.0196	1,074.4343
Mobile	58.2397	76.6103	437.3879	0.8259	56.3447	1.0291	57.3738	15.0403	0.9499	15.9902		63,114.5665	63,114.5665	2.6878		63,171.0111
Total	84.8921	77.8622	472.3909	0.8331	56.3447	1.8442	58.1889	15.0403	1.7591	16.7994	0.0000	73,053.8098	73,053.8098	2.9377	0.1811	73,171.6372

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2016	1/14/2016	5	10	
2	Grading	Grading	1/15/2016	3/3/2016	5	35	
3	Building Construction	Building Construction	3/4/2016	8/3/2017	5	370	
4	Paving	Paving	8/4/2017	8/31/2017	5	20	
5	Architectural Coating	Architectural Coating	9/1/2017	9/28/2017	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 87.5

Acres of Paving: 0

Residential Indoor: 842,400; Residential Outdoor: 280,800; Non-Residential Indoor: 676,350; Non-Residential Outdoor: 225,450 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	444.00	118.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	89.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.0053	4,065.0053	1.2262		4,090.7544
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343		4,065.0053	4,065.0053	1.2262		4,090.7544

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854

3.2 Site Preparation - 2016

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000				0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036	0.0000	4,065.0053	4,065.0053	1.2262			4,090.7544
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343	0.0000	4,065.0053	4,065.0053	1.2262			4,090.7544

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003			146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003			146.9854

3.3 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975		6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940		6,414.9807	6,414.9807	1.9350		6,455.6154

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	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171
Total	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171

3.3 Grading - 2016

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154

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	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171
Total	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171

3.4 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

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	1.4240	11.4541	17.6660	0.0279	0.7832	0.1709	0.9541	0.2235	0.1571	0.3806		2,793.7587	2,793.7587	0.0223		2,794.2271
Worker	1.6452	2.0437	19.2973	0.0434	3.6474	0.0274	3.6747	0.9675	0.0252	0.9926		3,621.5811	3,621.5811	0.1932		3,625.6386
Total	3.0692	13.4978	36.9633	0.0713	4.4306	0.1982	4.6288	1.1909	0.1823	1.3732		6,415.3398	6,415.3398	0.2155		6,419.8657

3.4 Building Construction - 2016

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890

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	1.4240	11.4541	17.6660	0.0279	0.7832	0.1709	0.9541	0.2235	0.1571	0.3806		2,793.7587	2,793.7587	0.0223		2,794.2271
Worker	1.6452	2.0437	19.2973	0.0434	3.6474	0.0274	3.6747	0.9675	0.0252	0.9926		3,621.5811	3,621.5811	0.1932		3,625.6386
Total	3.0692	13.4978	36.9633	0.0713	4.4306	0.1982	4.6288	1.1909	0.1823	1.3732		6,415.3398	6,415.3398	0.2155		6,419.8657

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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490

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	1.3012	10.2374	16.7325	0.0279	0.7833	0.1483	0.9315	0.2235	0.1364	0.3598		2,746.4956	2,746.4956	0.0211		2,746.9391
Worker	1.4905	1.8573	17.3680	0.0434	3.6474	0.0265	3.6739	0.9675	0.0245	0.9919		3,481.6178	3,481.6178	0.1788		3,485.3718
Total	2.7917	12.0946	34.1004	0.0713	4.4306	0.1748	4.6054	1.1909	0.1608	1.3518		6,228.1134	6,228.1134	0.1999		6,232.3109

3.4 Building Construction - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490

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	1.3012	10.2374	16.7325	0.0279	0.7833	0.1483	0.9315	0.2235	0.1364	0.3598		2,746.4956	2,746.4956	0.0211		2,746.9391
Worker	1.4905	1.8573	17.3680	0.0434	3.6474	0.0265	3.6739	0.9675	0.0245	0.9919		3,481.6178	3,481.6178	0.1788		3,485.3718
Total	2.7917	12.0946	34.1004	0.0713	4.4306	0.1748	4.6054	1.1909	0.1608	1.3518		6,228.1134	6,228.1134	0.1999		6,232.3109

3.5 Paving - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360

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	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491
Total	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491

3.5 Paving - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989		2,295.7360

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	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491
Total	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491

3.6 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	703.9406					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721
Total	704.2729	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2988	0.3723	3.4814	8.6900e-003	0.7311	5.3200e-003	0.7364	0.1939	4.9000e-003	0.1988		697.8919	697.8919	0.0358		698.6444
Total	0.2988	0.3723	3.4814	8.6900e-003	0.7311	5.3200e-003	0.7364	0.1939	4.9000e-003	0.1988		697.8919	697.8919	0.0358		698.6444

3.6 Architectural Coating - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	703.9406					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721
Total	704.2729	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721

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	0.2988	0.3723	3.4814	8.6900e-003	0.7311	5.3200e-003	0.7364	0.1939	4.9000e-003	0.1988		697.8919	697.8919	0.0358		698.6444
Total	0.2988	0.3723	3.4814	8.6900e-003	0.7311	5.3200e-003	0.7364	0.1939	4.9000e-003	0.1988		697.8919	697.8919	0.0358		698.6444

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	58.2397	76.6103	437.3879	0.8259	56.3447	1.0291	57.3738	15.0403	0.9499	15.9902		63,114.5665	63,114.5665	2.6878		63,171.0111
Unmitigated	58.2397	76.6103	437.3879	0.8259	56.3447	1.0291	57.3738	15.0403	0.9499	15.9902		63,114.5665	63,114.5665	2.6878		63,171.0111

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,077.44	1,077.44	1,077.44	1,992,120	1,992,120
Strip Mall	21,413.24	21,413.24	21,413.24	24,638,161	24,638,161
Total	22,490.68	22,490.68	22,490.68	26,630,281	26,630,281

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
Apartments Mid Rise	5.72	5.72	5.72	41.60	18.80	39.60	86	11	3
Strip Mall	5.72	5.72	5.72	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513300	0.073549	0.191092	0.130830	0.036094	0.005140	0.012550	0.022916	0.001871	0.002062	0.006564	0.000586	0.003446

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0979	0.8532	0.4780	5.3400e-003		0.0676	0.0676		0.0676	0.0676		1,067.9351	1,067.9351	0.0205	0.0196	1,074.4343
NaturalGas Unmitigated	0.0979	0.8532	0.4780	5.3400e-003		0.0676	0.0676		0.0676	0.0676		1,067.9351	1,067.9351	0.0205	0.0196	1,074.4343

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	6248.51	0.0674	0.5758	0.2450	3.6800e-003		0.0466	0.0466		0.0466	0.0466		735.1193	735.1193	0.0141	0.0135	739.5931
Strip Mall	2828.93	0.0305	0.2774	0.2330	1.6600e-003		0.0211	0.0211		0.0211	0.0211		332.8158	332.8158	6.3800e-003	6.1000e-003	334.8413
Total		0.0979	0.8532	0.4780	5.3400e-003		0.0676	0.0676		0.0676	0.0676		1,067.9351	1,067.9351	0.0205	0.0196	1,074.4343

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	6.24851	0.0674	0.5758	0.2450	3.6800e-003		0.0466	0.0466		0.0466	0.0466		735.1193	735.1193	0.0141	0.0135	739.5931
Strip Mall	2.82893	0.0305	0.2774	0.2330	1.6600e-003		0.0211	0.0211		0.0211	0.0211		332.8158	332.8158	6.3800e-003	6.1000e-003	334.8413
Total		0.0979	0.8532	0.4780	5.3400e-003		0.0676	0.0676		0.0676	0.0676		1,067.9351	1,067.9351	0.0205	0.0196	1,074.4343

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	26.5545	0.3987	34.5250	1.8200e-003		0.7474	0.7474		0.7416	0.7416	0.0000	8,871.3082	8,871.3082	0.2294	0.1615	8,926.1918
Unmitigated	26.5545	0.3987	34.5250	1.8200e-003		0.7474	0.7474		0.7416	0.7416	0.0000	8,871.3082	8,871.3082	0.2294	0.1615	8,926.1918

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	6.1424					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	18.5517					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.8075	4.0000e-005	0.0441	0.0000		0.5579	0.5579		0.5521	0.5521	0.0000	8,809.4118	8,809.4118	0.1689	0.1615	8,863.0244
Landscaping	1.0529	0.3987	34.4810	1.8200e-003		0.1895	0.1895		0.1895	0.1895		61.8965	61.8965	0.0605		63.1675
Total	26.5545	0.3987	34.5250	1.8200e-003		0.7474	0.7474		0.7416	0.7416	0.0000	8,871.3082	8,871.3082	0.2294	0.1615	8,926.1918

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	6.1424					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	18.5517					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.8075	4.0000e-005	0.0441	0.0000		0.5579	0.5579		0.5521	0.5521	0.0000	8,809.4118	8,809.4118	0.1689	0.1615	8,863.0244
Landscaping	1.0529	0.3987	34.4810	1.8200e-003		0.1895	0.1895		0.1895	0.1895		61.8965	61.8965	0.0605		63.1675
Total	26.5545	0.3987	34.5250	1.8200e-003		0.7474	0.7474		0.7416	0.7416	0.0000	8,871.3082	8,871.3082	0.2294	0.1615	8,926.1918

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Encinitas HEU - C-1
San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	187.00	Dwelling Unit	6.45	187,000.00	535
Strip Mall	126.30	1000sqft	2.90	126,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 9.35 acres

187 units

126,300 commercial sf

Construction Phase -

Grading -

Architectural Coating - SDAPCD VOC content limit = 150 g/L

Vehicle Trips - 1.3% reduction in trip length

Woodstoves - No woodstoves, all natural gas fireplaces

Area Coating - SDAPCD VOC content limit = 150 g/L

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	150
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	102.85	187.00
tblFireplaces	NumberNoFireplace	18.70	0.00
tblFireplaces	NumberWood	65.45	0.00
tblLandUse	LotAcreage	4.92	6.45
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	CC_TL	7.30	5.72

tblVehicleTrips	CNW_TL	7.30	5.72
tblVehicleTrips	CW_TL	9.50	5.72
tblVehicleTrips	HO_TL	7.50	5.72
tblVehicleTrips	HS_TL	7.30	5.72
tblVehicleTrips	HW_TL	10.80	5.72
tblVehicleTrips	ST_TR	7.16	2.59
tblVehicleTrips	ST_TR	42.04	47.49
tblVehicleTrips	SU_TR	6.07	2.59
tblVehicleTrips	SU_TR	20.43	47.49
tblVehicleTrips	WD_TR	6.59	2.59
tblVehicleTrips	WD_TR	44.32	47.49
tblWoodstoves	NumberCatalytic	9.35	0.00
tblWoodstoves	NumberNoncatalytic	9.35	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.9831	0.1792	15.5118	8.2000e-004		0.3360	0.3360		0.3333	0.3333	0.0000	3,987.8069	3,987.8069	0.1031	0.0726	4,012.4772
Energy	0.0388	0.3365	0.1754	2.1200e-003		0.0268	0.0268		0.0268	0.0268		423.6741	423.6741	8.1200e-003	7.7700e-003	426.2525
Mobile	16.8293	22.3170	126.9674	0.2416	16.4966	0.3004	16.7970	4.4035	0.2773	4.6808		18,459.9430	18,459.9430	0.7844		18,476.4158
Total	25.8512	22.8327	142.6546	0.2445	16.4966	0.6632	17.1598	4.4035	0.6375	5.0410	0.0000	22,871.4241	22,871.4241	0.8956	0.0804	22,915.1455

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	8.9831	0.1792	15.5118	8.2000e-004		0.3360	0.3360		0.3333	0.3333	0.0000	3,987.8069	3,987.8069	0.1031	0.0726	4,012.4772
Energy	0.0388	0.3365	0.1754	2.1200e-003		0.0268	0.0268		0.0268	0.0268		423.6741	423.6741	8.1200e-003	7.7700e-003	426.2525
Mobile	16.8293	22.3170	126.9674	0.2416	16.4966	0.3004	16.7970	4.4035	0.2773	4.6808		18,459.9430	18,459.9430	0.7844		18,476.4158
Total	25.8512	22.8327	142.6546	0.2445	16.4966	0.6632	17.1598	4.4035	0.6375	5.0410	0.0000	22,871.4241	22,871.4241	0.8956	0.0804	22,915.1455

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2016	1/14/2016	5	10	
2	Grading	Grading	1/15/2016	2/11/2016	5	20	
3	Building Construction	Building Construction	2/12/2016	12/29/2016	5	230	
4	Paving	Paving	12/30/2016	1/26/2017	5	20	
5	Architectural Coating	Architectural Coating	1/27/2017	2/23/2017	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 378,675; Residential Outdoor: 126,225; Non-Residential Indoor: 189,450; Non-Residential Outdoor: 63,150 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	175.00	41.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	35.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.0053	4,065.0053	1.2262		4,090.7544
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343		4,065.0053	4,065.0053	1.2262		4,090.7544

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854

3.2 Site Preparation - 2016

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036	0.0000	4,065.005 3	4,065.005 3	1.2262		4,090.754 4
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343	0.0000	4,065.005 3	4,065.005 3	1.2262		4,090.754 4

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854

3.3 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000				0.0000
Off-Road	3.6669	38.4466	26.0787	0.0298		2.1984	2.1984		2.0225	2.0225		3,093.7889	3,093.7889	0.9332			3,113.3860
Total	3.6669	38.4466	26.0787	0.0298	6.5523	2.1984	8.7507	3.3675	2.0225	5.3900		3,093.7889	3,093.7889	0.9332			3,113.3860

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	0.0556	0.0690	0.6519	1.4700e-003	0.1232	9.2000e-004	0.1242	0.0327	8.5000e-004	0.0335		122.3507	122.3507	6.5300e-003			122.4878
Total	0.0556	0.0690	0.6519	1.4700e-003	0.1232	9.2000e-004	0.1242	0.0327	8.5000e-004	0.0335		122.3507	122.3507	6.5300e-003			122.4878

3.3 Grading - 2016

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.6669	38.4466	26.0787	0.0298		2.1984	2.1984		2.0225	2.0225	0.0000	3,093.7889	3,093.7889	0.9332		3,113.3860
Total	3.6669	38.4466	26.0787	0.0298	6.5523	2.1984	8.7507	3.3675	2.0225	5.3900	0.0000	3,093.7889	3,093.7889	0.9332		3,113.3860

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	0.0556	0.0690	0.6519	1.4700e-003	0.1232	9.2000e-004	0.1242	0.0327	8.5000e-004	0.0335		122.3507	122.3507	6.5300e-003		122.4878
Total	0.0556	0.0690	0.6519	1.4700e-003	0.1232	9.2000e-004	0.1242	0.0327	8.5000e-004	0.0335		122.3507	122.3507	6.5300e-003		122.4878

3.4 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

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	0.4948	3.9798	6.1382	9.7100e-003	0.2721	0.0594	0.3315	0.0776	0.0546	0.1322		970.7128	970.7128	7.7500e-003		970.8755
Worker	0.6484	0.8055	7.6059	0.0171	1.4376	0.0108	1.4484	0.3813	9.9200e-003	0.3912		1,427.4250	1,427.4250	0.0762		1,429.0242
Total	1.1432	4.7853	13.7441	0.0268	1.7097	0.0702	1.7799	0.4590	0.0645	0.5235		2,398.1377	2,398.1377	0.0839		2,399.8997

3.4 Building Construction - 2016

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890

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	0.4948	3.9798	6.1382	9.7100e-003	0.2721	0.0594	0.3315	0.0776	0.0546	0.1322		970.7128	970.7128	7.7500e-003		970.8755
Worker	0.6484	0.8055	7.6059	0.0171	1.4376	0.0108	1.4484	0.3813	9.9200e-003	0.3912		1,427.4250	1,427.4250	0.0762		1,429.0242
Total	1.1432	4.7853	13.7441	0.0268	1.7097	0.0702	1.7799	0.4590	0.0645	0.5235		2,398.1377	2,398.1377	0.0839		2,399.8997

3.5 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495

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	0.0556	0.0690	0.6519	1.4700e-003	0.1232	9.2000e-004	0.1242	0.0327	8.5000e-004	0.0335		122.3507	122.3507	6.5300e-003		122.4878
Total	0.0556	0.0690	0.6519	1.4700e-003	0.1232	9.2000e-004	0.1242	0.0327	8.5000e-004	0.0335		122.3507	122.3507	6.5300e-003		122.4878

3.5 Paving - 2016

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	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601	0.0000	2,316.3767	2,316.3767	0.6987		2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601	0.0000	2,316.3767	2,316.3767	0.6987		2,331.0495

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	0.0556	0.0690	0.6519	1.4700e-003	0.1232	9.2000e-004	0.1242	0.0327	8.5000e-004	0.0335		122.3507	122.3507	6.5300e-003		122.4878
Total	0.0556	0.0690	0.6519	1.4700e-003	0.1232	9.2000e-004	0.1242	0.0327	8.5000e-004	0.0335		122.3507	122.3507	6.5300e-003		122.4878

3.5 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360

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	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491
Total	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491

3.5 Paving - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989		2,295.7360

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	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491
Total	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491

3.6 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	263.3259					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721
Total	263.6583	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1175	0.1464	1.3691	3.4200e-003	0.2875	2.0900e-003	0.2896	0.0763	1.9300e-003	0.0782		274.4519	274.4519	0.0141		274.7478
Total	0.1175	0.1464	1.3691	3.4200e-003	0.2875	2.0900e-003	0.2896	0.0763	1.9300e-003	0.0782		274.4519	274.4519	0.0141		274.7478

3.6 Architectural Coating - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	263.3259					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721
Total	263.6583	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721

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	0.1175	0.1464	1.3691	3.4200e-003	0.2875	2.0900e-003	0.2896	0.0763	1.9300e-003	0.0782		274.4519	274.4519	0.0141		274.7478
Total	0.1175	0.1464	1.3691	3.4200e-003	0.2875	2.0900e-003	0.2896	0.0763	1.9300e-003	0.0782		274.4519	274.4519	0.0141		274.7478

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	16.8293	22.3170	126.9674	0.2416	16.4966	0.3004	16.7970	4.4035	0.2773	4.6808		18,459.94 30	18,459.94 30	0.7844		18,476.41 58
Unmitigated	16.8293	22.3170	126.9674	0.2416	16.4966	0.3004	16.7970	4.4035	0.2773	4.6808		18,459.94 30	18,459.94 30	0.7844		18,476.41 58

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	484.33	484.33	484.33	895,496	895,496
Strip Mall	5,997.99	5,997.99	5,997.99	6,901,308	6,901,308
Total	6,482.32	6,482.32	6,482.32	7,796,804	7,796,804

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
Apartments Mid Rise	5.72	5.72	5.72	41.60	18.80	39.60	86	11	3
Strip Mall	5.72	5.72	5.72	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513300	0.073549	0.191092	0.130830	0.036094	0.005140	0.012550	0.022916	0.001871	0.002062	0.006564	0.000586	0.003446

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0388	0.3365	0.1754	2.1200e-003		0.0268	0.0268		0.0268	0.0268		423.6741	423.6741	8.1200e-003	7.7700e-003	426.2525
NaturalGas Unmitigated	0.0388	0.3365	0.1754	2.1200e-003		0.0268	0.0268		0.0268	0.0268		423.6741	423.6741	8.1200e-003	7.7700e-003	426.2525

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	792.403	8.5500e-003	0.0777	0.0653	4.7000e-004		5.9000e-003	5.9000e-003		5.9000e-003	5.9000e-003		93.2239	93.2239	1.7900e-003	1.7100e-003	93.7912
Apartments Mid Rise	2808.83	0.0303	0.2589	0.1102	1.6500e-003		0.0209	0.0209		0.0209	0.0209		330.4503	330.4503	6.3300e-003	6.0600e-003	332.4613
Total		0.0388	0.3365	0.1754	2.1200e-003		0.0268	0.0268		0.0268	0.0268		423.6741	423.6741	8.1200e-003	7.7700e-003	426.2525

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	0.792403	8.5500e-003	0.0777	0.0653	4.7000e-004		5.9000e-003	5.9000e-003		5.9000e-003	5.9000e-003		93.2239	93.2239	1.7900e-003	1.7100e-003	93.7912
Apartments Mid Rise	2.80883	0.0303	0.2589	0.1102	1.6500e-003		0.0209	0.0209		0.0209	0.0209		330.4503	330.4503	6.3300e-003	6.0600e-003	332.4613
Total		0.0388	0.3365	0.1754	2.1200e-003		0.0268	0.0268		0.0268	0.0268		423.6741	423.6741	8.1200e-003	7.7700e-003	426.2525

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.9831	0.1792	15.5118	8.2000e-004		0.3360	0.3360		0.3333	0.3333	0.0000	3,987.8069	3,987.8069	0.1031	0.0726	4,012.4772
Unmitigated	8.9831	0.1792	15.5118	8.2000e-004		0.3360	0.3360		0.3333	0.3333	0.0000	3,987.8069	3,987.8069	0.1031	0.0726	4,012.4772

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	1.4429					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.7046					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3630	2.0000e-005	0.0198	0.0000		0.2508	0.2508		0.2482	0.2482	0.0000	3,960.0000	3,960.0000	0.0759	0.0726	3,984.0999
Landscaping	0.4726	0.1792	15.4920	8.2000e-004		0.0852	0.0852		0.0852	0.0852		27.8069	27.8069	0.0272		28.3773
Total	8.9831	0.1792	15.5118	8.2000e-004		0.3360	0.3360		0.3333	0.3333	0.0000	3,987.8069	3,987.8069	0.1031	0.0726	4,012.4772

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	1.4429					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.7046					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3630	2.0000e-005	0.0198	0.0000		0.2508	0.2508		0.2482	0.2482	0.0000	3,960.0000	3,960.0000	0.0759	0.0726	3,984.0999
Landscaping	0.4726	0.1792	15.4920	8.2000e-004		0.0852	0.0852		0.0852	0.0852		27.8069	27.8069	0.0272		28.3773
Total	8.9831	0.1792	15.5118	8.2000e-004		0.3360	0.3360		0.3333	0.3333	0.0000	3,987.8069	3,987.8069	0.1031	0.0726	4,012.4772

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Encinitas HEU - C-2
San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	317.00	Dwelling Unit	10.57	317,000.00	907

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 10.57 acres

317 units

0 commercial sf

Construction Phase -

Architectural Coating - SDAPCD VOC content limit = 150 g/L

Vehicle Trips - BYO trip gen

0.5% reduction in trip length

Woodstoves - No woodstoves, all natural gas fireplaces

Area Coating - SDAPCD VOC content limit = 150 g/L

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	150
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	174.35	317.00
tblFireplaces	NumberNoFireplace	31.70	0.00
tblFireplaces	NumberWood	110.95	0.00
tblLandUse	LotAcreage	8.34	10.57
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	HO_TL	7.50	5.77
tblVehicleTrips	HS_TL	7.30	5.77
tblVehicleTrips	HW_TL	10.80	5.77
tblVehicleTrips	ST_TR	7.16	5.43
tblVehicleTrips	SU_TR	6.07	5.43
tblVehicleTrips	WD_TR	6.59	5.43
tblWoodstoves	NumberCatalytic	15.85	0.00
tblWoodstoves	NumberNoncatalytic	15.85	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.8285	0.3035	26.2734	1.3800e-003		0.5694	0.5694		0.5650	0.5650	0.0000	6,760.0323	6,760.0323	0.1746	0.1231	6,801.8504
Energy	0.0514	0.4388	0.1867	2.8000e-003		0.0355	0.0355		0.0355	0.0355		560.1750	560.1750	0.0107	0.0103	563.5842
Mobile	4.8752	8.1446	42.1921	0.0971	6.7926	0.1157	6.9084	1.8132	0.1068	1.9200		7,427.9484	7,427.9484	0.2996		7,434.2406
Total	14.7551	8.8869	68.6522	0.1013	6.7926	0.7207	7.5133	1.8132	0.7073	2.5204	0.0000	14,748.1557	14,748.1557	0.4850	0.1333	14,799.6752

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	9.8285	0.3035	26.2734	1.3800e-003		0.5694	0.5694		0.5650	0.5650	0.0000	6,760.0323	6,760.0323	0.1746	0.1231	6,801.8504
Energy	0.0514	0.4388	0.1867	2.8000e-003		0.0355	0.0355		0.0355	0.0355		560.1750	560.1750	0.0107	0.0103	563.5842
Mobile	4.8752	8.1446	42.1921	0.0971	6.7926	0.1157	6.9084	1.8132	0.1068	1.9200		7,427.9484	7,427.9484	0.2996		7,434.2406
Total	14.7551	8.8869	68.6522	0.1013	6.7926	0.7207	7.5133	1.8132	0.7073	2.5204	0.0000	14,748.1557	14,748.1557	0.4850	0.1333	14,799.6752

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2016	1/14/2016	5	10	
2	Grading	Grading	1/15/2016	2/25/2016	5	30	
3	Building Construction	Building Construction	2/26/2016	4/20/2017	5	300	
4	Paving	Paving	4/21/2017	5/18/2017	5	20	
5	Architectural Coating	Architectural Coating	5/19/2017	6/15/2017	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 641,925; Residential Outdoor: 213,975; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	228.00	34.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	46.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000				0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.005 3	4,065.005 3	1.2262			4,090.754 4
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343		4,065.005 3	4,065.005 3	1.2262			4,090.754 4

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003			146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003			146.9854

3.2 Site Preparation - 2016

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036	0.0000	4,065.005 3	4,065.005 3	1.2262		4,090.754 4
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343	0.0000	4,065.005 3	4,065.005 3	1.2262		4,090.754 4

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854

3.3 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975		6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940		6,414.9807	6,414.9807	1.9350		6,455.6154

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	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171
Total	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171

3.3 Grading - 2016

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154

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	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171
Total	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171

3.4 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

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	0.4103	3.3003	5.0902	8.0500e-003	0.2257	0.0492	0.2749	0.0644	0.0453	0.1097		804.9813	804.9813	6.4300e-003		805.1163
Worker	0.8448	1.0495	9.9094	0.0223	1.8730	0.0141	1.8870	0.4968	0.0129	0.5097		1,859.7308	1,859.7308	0.0992		1,861.8144
Total	1.2551	4.3498	14.9996	0.0303	2.0986	0.0633	2.1619	0.5612	0.0582	0.6194		2,664.7122	2,664.7122	0.1057		2,666.9307

3.4 Building Construction - 2016

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890

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	0.4103	3.3003	5.0902	8.0500e-003	0.2257	0.0492	0.2749	0.0644	0.0453	0.1097		804.9813	804.9813	6.4300e-003		805.1163
Worker	0.8448	1.0495	9.9094	0.0223	1.8730	0.0141	1.8870	0.4968	0.0129	0.5097		1,859.7308	1,859.7308	0.0992		1,861.8144
Total	1.2551	4.3498	14.9996	0.0303	2.0986	0.0633	2.1619	0.5612	0.0582	0.6194		2,664.7122	2,664.7122	0.1057		2,666.9307

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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490

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	0.3749	2.9498	4.8212	8.0300e-003	0.2257	0.0427	0.2684	0.0644	0.0393	0.1037		791.3631	791.3631	6.0900e-003		791.4909
Worker	0.7654	0.9537	8.9187	0.0223	1.8730	0.0136	1.8866	0.4968	0.0126	0.5094		1,787.8578	1,787.8578	0.0918		1,789.7855
Total	1.1403	3.9035	13.7399	0.0303	2.0987	0.0564	2.1550	0.5612	0.0519	0.6130		2,579.2209	2,579.2209	0.0979		2,581.2765

3.4 Building Construction - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490

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	0.3749	2.9498	4.8212	8.0300e-003	0.2257	0.0427	0.2684	0.0644	0.0393	0.1037		791.3631	791.3631	6.0900e-003		791.4909
Worker	0.7654	0.9537	8.9187	0.0223	1.8730	0.0136	1.8866	0.4968	0.0126	0.5094		1,787.8578	1,787.8578	0.0918		1,789.7855
Total	1.1403	3.9035	13.7399	0.0303	2.0987	0.0564	2.1550	0.5612	0.0519	0.6130		2,579.2209	2,579.2209	0.0979		2,581.2765

3.5 Paving - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360

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	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491
Total	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491

3.5 Paving - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989		2,295.7360

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	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491
Total	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491

3.6 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	297.5322					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721
Total	297.8646	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1544	0.1924	1.7994	4.4900e-003	0.3779	2.7500e-003	0.3806	0.1002	2.5300e-003	0.1028		360.7082	360.7082	0.0185		361.0971
Total	0.1544	0.1924	1.7994	4.4900e-003	0.3779	2.7500e-003	0.3806	0.1002	2.5300e-003	0.1028		360.7082	360.7082	0.0185		361.0971

3.6 Architectural Coating - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	297.5322					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721
Total	297.8646	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721

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	0.1544	0.1924	1.7994	4.4900e-003	0.3779	2.7500e-003	0.3806	0.1002	2.5300e-003	0.1028		360.7082	360.7082	0.0185		361.0971
Total	0.1544	0.1924	1.7994	4.4900e-003	0.3779	2.7500e-003	0.3806	0.1002	2.5300e-003	0.1028		360.7082	360.7082	0.0185		361.0971

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.8752	8.1446	42.1921	0.0971	6.7926	0.1157	6.9084	1.8132	0.1068	1.9200		7,427.9484	7,427.9484	0.2996		7,434.2406
Unmitigated	4.8752	8.1446	42.1921	0.0971	6.7926	0.1157	6.9084	1.8132	0.1068	1.9200		7,427.9484	7,427.9484	0.2996		7,434.2406

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,721.31	1,721.31	1,721.31	3,210,399	3,210,399
Total	1,721.31	1,721.31	1,721.31	3,210,399	3,210,399

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
Apartments Mid Rise	5.77	5.77	5.77	41.60	18.80	39.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513300	0.073549	0.191092	0.130830	0.036094	0.005140	0.012550	0.022916	0.001871	0.002062	0.006564	0.000586	0.003446

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0514	0.4388	0.1867	2.8000e-003		0.0355	0.0355		0.0355	0.0355		560.1750	560.1750	0.0107	0.0103	563.5842
NaturalGas Unmitigated	0.0514	0.4388	0.1867	2.8000e-003		0.0355	0.0355		0.0355	0.0355		560.1750	560.1750	0.0107	0.0103	563.5842

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	4761.49	0.0514	0.4388	0.1867	2.8000e-003		0.0355	0.0355		0.0355	0.0355		560.1750	560.1750	0.0107	0.0103	563.5842
Total		0.0514	0.4388	0.1867	2.8000e-003		0.0355	0.0355		0.0355	0.0355		560.1750	560.1750	0.0107	0.0103	563.5842

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	4.76149	0.0514	0.4388	0.1867	2.8000e-003		0.0355	0.0355		0.0355	0.0355		560.1750	560.1750	0.0107	0.0103	563.5842
Total		0.0514	0.4388	0.1867	2.8000e-003		0.0355	0.0355		0.0355	0.0355		560.1750	560.1750	0.0107	0.0103	563.5842

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.8285	0.3035	26.2734	1.3800e-003		0.5694	0.5694		0.5650	0.5650	0.0000	6,760.0323	6,760.0323	0.1746	0.1231	6,801.8504
Unmitigated	9.8285	0.3035	26.2734	1.3800e-003		0.5694	0.5694		0.5650	0.5650	0.0000	6,760.0323	6,760.0323	0.1746	0.1231	6,801.8504

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	1.6303					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.7838					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.6154	3.0000e-005	0.0336	0.0000		0.4252	0.4252		0.4207	0.4207	0.0000	6,712.9412	6,712.9412	0.1287	0.1231	6,753.7950
Landscaping	0.7990	0.3035	26.2398	1.3800e-003		0.1443	0.1443		0.1443	0.1443		47.0911	47.0911	0.0459		48.0554
Total	9.8285	0.3035	26.2734	1.3800e-003		0.5694	0.5694		0.5650	0.5650	0.0000	6,760.0323	6,760.0323	0.1746	0.1231	6,801.8504

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					
Consumer Products	6.7838					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.6154	3.0000e-005	0.0336	0.0000		0.4252	0.4252		0.4207	0.4207	0.0000	6,712.9412	6,712.9412	0.1287	0.1231	6,753.7950
Landscaping	0.7990	0.3035	26.2398	1.3800e-003		0.1443	0.1443		0.1443	0.1443		47.0911	47.0911	0.0459		48.0554
Architectural Coating	1.6303					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	9.8285	0.3035	26.2734	1.3800e-003		0.5694	0.5694		0.5650	0.5650	0.0000	6,760.0323	6,760.0323	0.1746	0.1231	6,801.8504

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Encinitas HEU - C-7
San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	11.00	Dwelling Unit	0.27	11,000.00	31
Strip Mall	12.00	1000sqft	0.28	12,004.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 0.55 acres

11 units

12,004 commercial sf

Construction Phase -

Architectural Coating - SDAPCD VOC content limit = 150 g/L

Vehicle Trips - 0.6% reduction in trip length

Woodstoves - No woodstoves, all natural gas fireplaces

Area Coating - SDAPCD VOC content limit = 150 g/L

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	6.05	11.00
tblFireplaces	NumberNoFireplace	1.10	0.00
tblFireplaces	NumberWood	3.85	0.00
tblLandUse	LandUseSquareFeet	12,000.00	12,004.00
tblLandUse	LotAcreage	0.29	0.27
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	CC_TL	7.30	5.76
tblVehicleTrips	CNW_TL	7.30	5.76
tblVehicleTrips	CW_TL	9.50	5.76
tblVehicleTrips	HO_TL	7.50	5.76
tblVehicleTrips	HS_TL	7.30	5.76
tblVehicleTrips	HW_TL	10.80	5.76
tblVehicleTrips	ST_TR	7.16	4.38
tblVehicleTrips	ST_TR	42.04	80.27
tblVehicleTrips	SU_TR	6.07	4.38
tblVehicleTrips	SU_TR	20.43	80.27
tblVehicleTrips	WD_TR	6.59	4.38
tblVehicleTrips	WD_TR	44.32	80.27
tblWoodstoves	NumberCatalytic	0.55	0.00
tblWoodstoves	NumberNoncatalytic	0.55	0.00

tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	75.0569	14.0523	9.1829	0.0132	0.8349	0.9449	1.6394	0.4356	0.8693	1.2035	0.0000	1,347.463 2	1,347.463 2	0.3613	0.0000	1,355.050 1
Total	75.0569	14.0523	9.1829	0.0132	0.8349	0.9449	1.6394	0.4356	0.8693	1.2035	0.0000	1,347.463 2	1,347.463 2	0.3613	0.0000	1,355.050 1

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	75.0569	14.0523	9.1829	0.0132	0.8349	0.9449	1.6394	0.4356	0.8693	1.2035	0.0000	1,347.463 2	1,347.463 2	0.3613	0.0000	1,355.050 1
Total	75.0569	14.0523	9.1829	0.0132	0.8349	0.9449	1.6394	0.4356	0.8693	1.2035	0.0000	1,347.463 2	1,347.463 2	0.3613	0.0000	1,355.050 1

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7044	0.0105	0.9129	5.0000e-005		0.0198	0.0198		0.0196	0.0196	0.0000	234.5779	234.5779	6.0700e-003	4.2700e-003	236.0291
Energy	2.5900e-003	0.0226	0.0127	1.4000e-004		1.7900e-003	1.7900e-003		1.7900e-003	1.7900e-003		28.2986	28.2986	5.4000e-004	5.2000e-004	28.4708
Mobile	2.6220	3.4611	19.7302	0.0374	2.5511	0.0465	2.5976	0.6810	0.0430	0.7239		2,856.3503	2,856.3503	0.1215		2,858.9024
Total	3.3289	3.4942	20.6558	0.0376	2.5511	0.0681	2.6192	0.6810	0.0644	0.7453	0.0000	3,119.2268	3,119.2268	0.1281	4.7900e-003	3,123.4023

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7044	0.0105	0.9129	5.0000e-005		0.0198	0.0198		0.0196	0.0196	0.0000	234.5779	234.5779	6.0700e-003	4.2700e-003	236.0291
Energy	2.5900e-003	0.0226	0.0127	1.4000e-004		1.7900e-003	1.7900e-003		1.7900e-003	1.7900e-003		28.2986	28.2986	5.4000e-004	5.2000e-004	28.4708
Mobile	2.6220	3.4611	19.7302	0.0374	2.5511	0.0465	2.5976	0.6810	0.0430	0.7239		2,856.3503	2,856.3503	0.1215		2,858.9024
Total	3.3289	3.4942	20.6558	0.0376	2.5511	0.0681	2.6192	0.6810	0.0644	0.7453	0.0000	3,119.2268	3,119.2268	0.1281	4.7900e-003	3,123.4023

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2016	1/1/2016	5	1	
2	Grading	Grading	1/2/2016	1/5/2016	5	2	
3	Building Construction	Building Construction	1/6/2016	5/24/2016	5	100	
4	Paving	Paving	5/25/2016	5/31/2016	5	5	
5	Architectural Coating	Architectural Coating	6/1/2016	6/7/2016	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 22,275; Residential Outdoor: 7,425; Non-Residential Indoor: 18,006; Non-Residential Outdoor: 6,002 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	12.00	3.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671		973.0842	973.0842	0.2935		979.2481
Total	1.3593	13.6350	7.3401	9.3500e-003	0.5303	0.8338	1.3640	0.0573	0.7671	0.8243		973.0842	973.0842	0.2935		979.2481

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	0.0185	0.0230	0.2173	4.9000e-004	0.0411	3.1000e-004	0.0414	0.0109	2.8000e-004	0.0112		40.7836	40.7836	2.1800e-003		40.8293
Total	0.0185	0.0230	0.2173	4.9000e-004	0.0411	3.1000e-004	0.0414	0.0109	2.8000e-004	0.0112		40.7836	40.7836	2.1800e-003		40.8293

3.2 Site Preparation - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671	0.0000	973.0842	973.0842	0.2935		979.2481
Total	1.3593	13.6350	7.3401	9.3500e-003	0.5303	0.8338	1.3640	0.0573	0.7671	0.8243	0.0000	973.0842	973.0842	0.2935		979.2481

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	0.0185	0.0230	0.2173	4.9000e-004	0.0411	3.1000e-004	0.0414	0.0109	2.8000e-004	0.0112		40.7836	40.7836	2.1800e-003		40.8293
Total	0.0185	0.0230	0.2173	4.9000e-004	0.0411	3.1000e-004	0.0414	0.0109	2.8000e-004	0.0112		40.7836	40.7836	2.1800e-003		40.8293

3.3 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
Total	1.3122	11.2385	8.7048	0.0120	0.7528	0.8039	1.5566	0.4138	0.7674	1.1811		1,193.6106	1,193.6106	0.2386		1,198.6217

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0371	0.0460	0.4346	9.8000e-004	0.0822	6.2000e-004	0.0828	0.0218	5.7000e-004	0.0224		81.5671	81.5671	4.3500e-003		81.6585
Total	0.0371	0.0460	0.4346	9.8000e-004	0.0822	6.2000e-004	0.0828	0.0218	5.7000e-004	0.0224		81.5671	81.5671	4.3500e-003		81.6585

3.3 Grading - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
Total	1.3122	11.2385	8.7048	0.0120	0.7528	0.8039	1.5566	0.4138	0.7674	1.1811	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0371	0.0460	0.4346	9.8000e-004	0.0822	6.2000e-004	0.0828	0.0218	5.7000e-004	0.0224		81.5671	81.5671	4.3500e-003		81.6585
Total	0.0371	0.0460	0.4346	9.8000e-004	0.0822	6.2000e-004	0.0828	0.0218	5.7000e-004	0.0224		81.5671	81.5671	4.3500e-003		81.6585

3.4 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646		1,178.5549	1,178.5549	0.3555		1,186.0202
Total	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646		1,178.5549	1,178.5549	0.3555		1,186.0202

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	0.0362	0.2912	0.4491	7.1000e-004	0.0199	4.3400e-003	0.0243	5.6800e-003	3.9900e-003	9.6800e-003		71.0278	71.0278	5.7000e-004		71.0397
Worker	0.0445	0.0552	0.5216	1.1700e-003	0.0986	7.4000e-004	0.0993	0.0262	6.8000e-004	0.0268		97.8806	97.8806	5.2200e-003		97.9902
Total	0.0807	0.3465	0.9707	1.8800e-003	0.1185	5.0800e-003	0.1236	0.0318	4.6700e-003	0.0365		168.9083	168.9083	5.7900e-003		169.0299

3.4 Building Construction - 2016

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	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646	0.0000	1,178.5549	1,178.5549	0.3555		1,186.0202
Total	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646	0.0000	1,178.5549	1,178.5549	0.3555		1,186.0202

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	0.0362	0.2912	0.4491	7.1000e-004	0.0199	4.3400e-003	0.0243	5.6800e-003	3.9900e-003	9.6800e-003		71.0278	71.0278	5.7000e-004		71.0397
Worker	0.0445	0.0552	0.5216	1.1700e-003	0.0986	7.4000e-004	0.0993	0.0262	6.8000e-004	0.0268		97.8806	97.8806	5.2200e-003		97.9902
Total	0.0807	0.3465	0.9707	1.8800e-003	0.1185	5.0800e-003	0.1236	0.0318	4.6700e-003	0.0365		168.9083	168.9083	5.7900e-003		169.0299

3.5 Paving - 2016**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113		1,083.583 2	1,083.583 2	0.2969		1,089.817 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113		1,083.583 2	1,083.583 2	0.2969		1,089.817 5

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854

3.5 Paving - 2016**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	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113	0.0000	1,083.583 2	1,083.583 2	0.2969		1,089.817 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113	0.0000	1,083.583 2	1,083.583 2	0.2969		1,089.817 5

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854

3.6 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	74.6810					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	75.0494	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

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	7.4100e-003	9.2100e-003	0.0869	2.0000e-004	0.0164	1.2000e-004	0.0166	4.3600e-003	1.1000e-004	4.4700e-003		16.3134	16.3134	8.7000e-004		16.3317
Total	7.4100e-003	9.2100e-003	0.0869	2.0000e-004	0.0164	1.2000e-004	0.0166	4.3600e-003	1.1000e-004	4.4700e-003		16.3134	16.3134	8.7000e-004		16.3317

3.6 Architectural Coating - 2016

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	74.6810					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449
Total	75.0494	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449

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	7.4100e-003	9.2100e-003	0.0869	2.0000e-004	0.0164	1.2000e-004	0.0166	4.3600e-003	1.1000e-004	4.4700e-003		16.3134	16.3134	8.7000e-004		16.3317
Total	7.4100e-003	9.2100e-003	0.0869	2.0000e-004	0.0164	1.2000e-004	0.0166	4.3600e-003	1.1000e-004	4.4700e-003		16.3134	16.3134	8.7000e-004		16.3317

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.6220	3.4611	19.7302	0.0374	2.5511	0.0465	2.5976	0.6810	0.0430	0.7239		2,856.3503	2,856.3503	0.1215		2,858.9024
Unmitigated	2.6220	3.4611	19.7302	0.0374	2.5511	0.0465	2.5976	0.6810	0.0430	0.7239		2,856.3503	2,856.3503	0.1215		2,858.9024

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	48.18	48.18	48.18	89,704	89,704
Strip Mall	963.24	963.24	963.24	1,116,021	1,116,021
Total	1,011.42	1,011.42	1,011.42	1,205,726	1,205,726

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
Apartments Mid Rise	5.76	5.76	5.76	41.60	18.80	39.60	86	11	3
Strip Mall	5.76	5.76	5.76	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513300	0.073549	0.191092	0.130830	0.036094	0.005140	0.012550	0.022916	0.001871	0.002062	0.006564	0.000586	0.003446

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	2.5900e-003	0.0226	0.0127	1.4000e-004		1.7900e-003	1.7900e-003		1.7900e-003	1.7900e-003		28.2986	28.2986	5.4000e-004	5.2000e-004	28.4708
NaturalGas Unmitigated	2.5900e-003	0.0226	0.0127	1.4000e-004		1.7900e-003	1.7900e-003		1.7900e-003	1.7900e-003		28.2986	28.2986	5.4000e-004	5.2000e-004	28.4708

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	165.225	1.7800e-003	0.0152	6.4800e-003	1.0000e-004		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003		19.4383	19.4383	3.7000e-004	3.6000e-004	19.5566
Strip Mall	75.3128	8.1000e-004	7.3800e-003	6.2000e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8603	8.8603	1.7000e-004	1.6000e-004	8.9143
Total		2.5900e-003	0.0226	0.0127	1.4000e-004		1.7900e-003	1.7900e-003		1.7900e-003	1.7900e-003		28.2986	28.2986	5.4000e-004	5.2000e-004	28.4708

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	0.0753128	8.1000e-004	7.3800e-003	6.2000e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8603	8.8603	1.7000e-004	1.6000e-004	8.9143
Apartments Mid Rise	0.165225	1.7800e-003	0.0152	6.4800e-003	1.0000e-004		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003		19.4383	19.4383	3.7000e-004	3.6000e-004	19.5566
Total		2.5900e-003	0.0226	0.0127	1.4000e-004		1.7900e-003	1.7900e-003		1.7900e-003	1.7900e-003		28.2986	28.2986	5.4000e-004	5.2000e-004	28.4708

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7044	0.0105	0.9129	5.0000e-005		0.0198	0.0198		0.0196	0.0196	0.0000	234.5779	234.5779	6.0700e-003	4.2700e-003	236.0291
Unmitigated	0.7044	0.0105	0.9129	5.0000e-005		0.0198	0.0198		0.0196	0.0196	0.0000	234.5779	234.5779	6.0700e-003	4.2700e-003	236.0291

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	0.1629					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4923					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0214	0.0000	1.1600e-003	0.0000		0.0148	0.0148		0.0146	0.0146	0.0000	232.9412	232.9412	4.4600e-003	4.2700e-003	234.3588
Landscaping	0.0278	0.0105	0.9118	5.0000e-005		5.0100e-003	5.0100e-003		5.0100e-003	5.0100e-003		1.6367	1.6367	1.6000e-003		1.6703
Total	0.7044	0.0105	0.9129	5.0000e-005		0.0198	0.0198		0.0196	0.0196	0.0000	234.5779	234.5779	6.0600e-003	4.2700e-003	236.0291

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	0.1629					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4923					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0214	0.0000	1.1600e-003	0.0000		0.0148	0.0148		0.0146	0.0146	0.0000	232.9412	232.9412	4.4600e-003	4.2700e-003	234.3588
Landscaping	0.0278	0.0105	0.9118	5.0000e-005		5.0100e-003	5.0100e-003		5.0100e-003	5.0100e-003		1.6367	1.6367	1.6000e-003		1.6703
Total	0.7044	0.0105	0.9129	5.0000e-005		0.0198	0.0198		0.0196	0.0196	0.0000	234.5779	234.5779	6.0600e-003	4.2700e-003	236.0291

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Encinitas HEU - CBHMG-1
San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	23.00	Dwelling Unit	0.77	23,000.00	66

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 0.77 acres

23 units

0 commercial sf

Construction Phase -

Architectural Coating - SDAPCD VOC content limit = 150 g/L

Vehicle Trips - 1.3% reduction in trip length

Woodstoves - No woodstoves, all natural gas fireplaces

Area Coating - SDAPCD VOC content limit = 150 g/L

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	150
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	12.65	23.00
tblFireplaces	NumberNoFireplace	2.30	0.00
tblFireplaces	NumberWood	8.05	0.00
tblLandUse	LotAcreage	0.61	0.77
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	HO_TL	7.50	5.72
tblVehicleTrips	HS_TL	7.30	5.72
tblVehicleTrips	HW_TL	10.80	5.72
tblVehicleTrips	ST_TR	7.16	2.59
tblVehicleTrips	SU_TR	6.07	2.59
tblVehicleTrips	WD_TR	6.59	2.59
tblWoodstoves	NumberCatalytic	1.15	0.00
tblWoodstoves	NumberNoncatalytic	1.15	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7131	0.0220	1.9063	1.0000e-004		0.0413	0.0413		0.0410	0.0410	0.0000	490.4755	490.4755	0.0127	8.9300e-003	493.5097
Energy	3.7300e-003	0.0318	0.0136	2.0000e-004		2.5700e-003	2.5700e-003		2.5700e-003	2.5700e-003		40.6436	40.6436	7.8000e-004	7.5000e-004	40.8910
Mobile	0.1684	0.2800	1.4530	3.3300e-003	0.2330	3.9800e-003	0.2370	0.0622	3.6700e-003	0.0659		254.9297	254.9297	0.0103		255.1458
Total	0.8852	0.3339	3.3728	3.6300e-003	0.2330	0.0479	0.2809	0.0622	0.0472	0.1094	0.0000	786.0488	786.0488	0.0237	9.6800e-003	789.5464

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7131	0.0220	1.9063	1.0000e-004		0.0413	0.0413		0.0410	0.0410	0.0000	490.4755	490.4755	0.0127	8.9300e-003	493.5097
Energy	3.7300e-003	0.0318	0.0136	2.0000e-004		2.5700e-003	2.5700e-003		2.5700e-003	2.5700e-003		40.6436	40.6436	7.8000e-004	7.5000e-004	40.8910
Mobile	0.1684	0.2800	1.4530	3.3300e-003	0.2330	3.9800e-003	0.2370	0.0622	3.6700e-003	0.0659		254.9297	254.9297	0.0103		255.1458
Total	0.8852	0.3339	3.3728	3.6300e-003	0.2330	0.0479	0.2809	0.0622	0.0472	0.1094	0.0000	786.0488	786.0488	0.0237	9.6800e-003	789.5464

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2016	1/1/2016	5	1	
2	Grading	Grading	1/2/2016	1/5/2016	5	2	
3	Building Construction	Building Construction	1/6/2016	5/24/2016	5	100	
4	Paving	Paving	5/25/2016	5/31/2016	5	5	
5	Architectural Coating	Architectural Coating	6/1/2016	6/7/2016	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 46,575; Residential Outdoor: 15,525; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	17.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671		973.0842	973.0842	0.2935		979.2481
Total	1.3593	13.6350	7.3401	9.3500e-003	0.5303	0.8338	1.3640	0.0573	0.7671	0.8243		973.0842	973.0842	0.2935		979.2481

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	0.0185	0.0230	0.2173	4.9000e-004	0.0411	3.1000e-004	0.0414	0.0109	2.8000e-004	0.0112		40.7836	40.7836	2.1800e-003		40.8293
Total	0.0185	0.0230	0.2173	4.9000e-004	0.0411	3.1000e-004	0.0414	0.0109	2.8000e-004	0.0112		40.7836	40.7836	2.1800e-003		40.8293

3.2 Site Preparation - 2016**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671	0.0000	973.0842	973.0842	0.2935		979.2481
Total	1.3593	13.6350	7.3401	9.3500e-003	0.5303	0.8338	1.3640	0.0573	0.7671	0.8243	0.0000	973.0842	973.0842	0.2935		979.2481

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	0.0185	0.0230	0.2173	4.9000e-004	0.0411	3.1000e-004	0.0414	0.0109	2.8000e-004	0.0112		40.7836	40.7836	2.1800e-003		40.8293
Total	0.0185	0.0230	0.2173	4.9000e-004	0.0411	3.1000e-004	0.0414	0.0109	2.8000e-004	0.0112		40.7836	40.7836	2.1800e-003		40.8293

3.3 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
Total	1.3122	11.2385	8.7048	0.0120	0.7528	0.8039	1.5566	0.4138	0.7674	1.1811		1,193.6106	1,193.6106	0.2386		1,198.6217

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0371	0.0460	0.4346	9.8000e-004	0.0822	6.2000e-004	0.0828	0.0218	5.7000e-004	0.0224		81.5671	81.5671	4.3500e-003		81.6585
Total	0.0371	0.0460	0.4346	9.8000e-004	0.0822	6.2000e-004	0.0828	0.0218	5.7000e-004	0.0224		81.5671	81.5671	4.3500e-003		81.6585

3.3 Grading - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
Total	1.3122	11.2385	8.7048	0.0120	0.7528	0.8039	1.5566	0.4138	0.7674	1.1811	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0371	0.0460	0.4346	9.8000e-004	0.0822	6.2000e-004	0.0828	0.0218	5.7000e-004	0.0224		81.5671	81.5671	4.3500e-003		81.6585
Total	0.0371	0.0460	0.4346	9.8000e-004	0.0822	6.2000e-004	0.0828	0.0218	5.7000e-004	0.0224		81.5671	81.5671	4.3500e-003		81.6585

3.4 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646		1,178.5549	1,178.5549	0.3555			1,186.0202
Total	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646		1,178.5549	1,178.5549	0.3555			1,186.0202

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	0.0241	0.1941	0.2994	4.7000e-004	0.0133	2.9000e-003	0.0162	3.7900e-003	2.6600e-003	6.4500e-003		47.3518	47.3518	3.8000e-004			47.3598
Worker	0.0630	0.0783	0.7389	1.6600e-003	0.1397	1.0500e-003	0.1407	0.0370	9.6000e-004	0.0380		138.6641	138.6641	7.4000e-003			138.8195
Total	0.0871	0.2724	1.0383	2.1300e-003	0.1529	3.9500e-003	0.1569	0.0408	3.6200e-003	0.0445		186.0160	186.0160	7.7800e-003			186.1793

3.4 Building Construction - 2016

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	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646	0.0000	1,178.5549	1,178.5549	0.3555		1,186.0202
Total	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646	0.0000	1,178.5549	1,178.5549	0.3555		1,186.0202

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	0.0241	0.1941	0.2994	4.7000e-004	0.0133	2.9000e-003	0.0162	3.7900e-003	2.6600e-003	6.4500e-003		47.3518	47.3518	3.8000e-004		47.3598
Worker	0.0630	0.0783	0.7389	1.6600e-003	0.1397	1.0500e-003	0.1407	0.0370	9.6000e-004	0.0380		138.6641	138.6641	7.4000e-003		138.8195
Total	0.0871	0.2724	1.0383	2.1300e-003	0.1529	3.9500e-003	0.1569	0.0408	3.6200e-003	0.0445		186.0160	186.0160	7.7800e-003		186.1793

3.5 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113		1,083.5832	1,083.5832	0.2969		1,089.8175
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113		1,083.5832	1,083.5832	0.2969		1,089.8175

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854

3.5 Paving - 2016**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	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113	0.0000	1,083.583 2	1,083.583 2	0.2969		1,089.817 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113	0.0000	1,083.583 2	1,083.583 2	0.2969		1,089.817 5

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854

3.6 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	86.3501					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	86.7185	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

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	0.0111	0.0138	0.1304	2.9000e-004	0.0246	1.8000e-004	0.0248	6.5400e-003	1.7000e-004	6.7100e-003		24.4701	24.4701	1.3100e-003		24.4976
Total	0.0111	0.0138	0.1304	2.9000e-004	0.0246	1.8000e-004	0.0248	6.5400e-003	1.7000e-004	6.7100e-003		24.4701	24.4701	1.3100e-003		24.4976

3.6 Architectural Coating - 2016

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	86.3501					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449
Total	86.7185	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449

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	0.0111	0.0138	0.1304	2.9000e-004	0.0246	1.8000e-004	0.0248	6.5400e-003	1.7000e-004	6.7100e-003		24.4701	24.4701	1.3100e-003		24.4976
Total	0.0111	0.0138	0.1304	2.9000e-004	0.0246	1.8000e-004	0.0248	6.5400e-003	1.7000e-004	6.7100e-003		24.4701	24.4701	1.3100e-003		24.4976

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1684	0.2800	1.4530	3.3300e-003	0.2330	3.9800e-003	0.2370	0.0622	3.6700e-003	0.0659		254.9297	254.9297	0.0103		255.1458
Unmitigated	0.1684	0.2800	1.4530	3.3300e-003	0.2330	3.9800e-003	0.2370	0.0622	3.6700e-003	0.0659		254.9297	254.9297	0.0103		255.1458

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	59.57	59.57	59.57	110,141	110,141
Total	59.57	59.57	59.57	110,141	110,141

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
Apartments Mid Rise	5.72	5.72	5.72	41.60	18.80	39.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513300	0.073549	0.191092	0.130830	0.036094	0.005140	0.012550	0.022916	0.001871	0.002062	0.006564	0.000586	0.003446

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.7300e-003	0.0318	0.0136	2.0000e-004		2.5700e-003	2.5700e-003		2.5700e-003	2.5700e-003		40.6436	40.6436	7.8000e-004	7.5000e-004	40.8910
NaturalGas Unmitigated	3.7300e-003	0.0318	0.0136	2.0000e-004		2.5700e-003	2.5700e-003		2.5700e-003	2.5700e-003		40.6436	40.6436	7.8000e-004	7.5000e-004	40.8910

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	345.471	3.7300e-003	0.0318	0.0136	2.0000e-004		2.5700e-003	2.5700e-003		2.5700e-003	2.5700e-003		40.6436	40.6436	7.8000e-004	7.5000e-004	40.8910
Total		3.7300e-003	0.0318	0.0136	2.0000e-004		2.5700e-003	2.5700e-003		2.5700e-003	2.5700e-003		40.6436	40.6436	7.8000e-004	7.5000e-004	40.8910

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	0.345471	3.7300e-003	0.0318	0.0136	2.0000e-004		2.5700e-003	2.5700e-003		2.5700e-003	2.5700e-003		40.6436	40.6436	7.8000e-004	7.5000e-004	40.8910
Total		3.7300e-003	0.0318	0.0136	2.0000e-004		2.5700e-003	2.5700e-003		2.5700e-003	2.5700e-003		40.6436	40.6436	7.8000e-004	7.5000e-004	40.8910

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7131	0.0220	1.9063	1.0000e-004		0.0413	0.0413		0.0410	0.0410	0.0000	490.4755	490.4755	0.0127	8.9300e-003	493.5097
Unmitigated	0.7131	0.0220	1.9063	1.0000e-004		0.0413	0.0413		0.0410	0.0410	0.0000	490.4755	490.4755	0.0127	8.9300e-003	493.5097

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	0.1183					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4922					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0447	0.0000	2.4400e-003	0.0000		0.0309	0.0309		0.0305	0.0305	0.0000	487.0588	487.0588	9.3400e-003	8.9300e-003	490.0230
Landscaping	0.0580	0.0220	1.9038	1.0000e-004		0.0105	0.0105		0.0105	0.0105		3.4167	3.4167	3.3300e-003		3.4867
Total	0.7131	0.0220	1.9063	1.0000e-004		0.0413	0.0413		0.0410	0.0410	0.0000	490.4755	490.4755	0.0127	8.9300e-003	493.5097

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	0.1183					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4922					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0447	0.0000	2.4400e-003	0.0000		0.0309	0.0309		0.0305	0.0305	0.0000	487.0588	487.0588	9.3400e-003	8.9300e-003	490.0230
Landscaping	0.0580	0.0220	1.9038	1.0000e-004		0.0105	0.0105		0.0105	0.0105		3.4167	3.4167	3.3300e-003		3.4867
Total	0.7131	0.0220	1.9063	1.0000e-004		0.0413	0.0413		0.0410	0.0410	0.0000	490.4755	490.4755	0.0127	8.9300e-003	493.5097

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Encinitas HEU - NE-1
San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	188.00	Dwelling Unit	8.06	188,000.00	538
Strip Mall	93.40	1000sqft	2.14	93,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 10.2 acres

188 units

93,400 commercial sf

Construction Phase -

Grading -

Architectural Coating - SDAPCD VOC content limit = 150 g/L

Vehicle Trips - BYO trip gen

0.5% reduction in trip length

Woodstoves - No woodstoves, all natural gas fireplaces

Area Coating - SDAPCD VOC content limit = 150 g/L

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	150
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	103.40	188.00
tblFireplaces	NumberNoFireplace	18.80	0.00
tblFireplaces	NumberWood	65.80	0.00
tblLandUse	LotAcreage	4.95	8.06
tblProjectCharacteristics	OperationalYear	2014	2020

tblVehicleTrips	CC_TL	7.30	5.77
tblVehicleTrips	CNW_TL	7.30	5.77
tblVehicleTrips	CW_TL	9.50	5.77
tblVehicleTrips	HO_TL	7.50	5.77
tblVehicleTrips	HS_TL	7.30	5.77
tblVehicleTrips	HW_TL	10.80	5.77
tblVehicleTrips	ST_TR	7.16	5.43
tblVehicleTrips	ST_TR	42.04	99.52
tblVehicleTrips	SU_TR	6.07	5.43
tblVehicleTrips	SU_TR	20.43	99.52
tblVehicleTrips	WD_TR	6.59	5.43
tblVehicleTrips	WD_TR	44.32	99.52
tblWoodstoves	NumberCatalytic	9.40	0.00
tblWoodstoves	NumberNoncatalytic	9.40	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.1844	0.1801	15.5913	8.2000e-004		0.3377	0.3377		0.3351	0.3351	0.0000	4,009.1248	4,009.1248	0.1036	0.0730	4,033.9266
Energy	0.0368	0.3177	0.1590	2.0100e-003		0.0254	0.0254		0.0254	0.0254		401.1573	401.1573	7.6900e-003	7.3500e-003	403.5986
Mobile	26.8835	36.0684	204.1699	0.3926	26.8540	0.4871	27.3411	7.1682	0.4496	7.6178		30,006.9543	30,006.9543	1.2711		30,033.6472
Total	35.1046	36.5662	219.9202	0.3955	26.8540	0.8502	27.7043	7.1682	0.8101	7.9783	0.0000	34,417.2363	34,417.2363	1.3824	0.0803	34,471.1724

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	8.1844	0.1801	15.5913	8.2000e-004		0.3377	0.3377		0.3351	0.3351	0.0000	4,009.1248	4,009.1248	0.1036	0.0730	4,033.9266
Energy	0.0368	0.3177	0.1590	2.0100e-003		0.0254	0.0254		0.0254	0.0254		401.1573	401.1573	7.6900e-003	7.3500e-003	403.5986
Mobile	26.8835	36.0684	204.1699	0.3926	26.8540	0.4871	27.3411	7.1682	0.4496	7.6178		30,006.9543	30,006.9543	1.2711		30,033.6472
Total	35.1046	36.5662	219.9202	0.3955	26.8540	0.8502	27.7043	7.1682	0.8101	7.9783	0.0000	34,417.2363	34,417.2363	1.3824	0.0803	34,471.1724

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2016	1/14/2016	5	10	
2	Grading	Grading	1/15/2016	2/25/2016	5	30	
3	Building Construction	Building Construction	2/26/2016	4/20/2017	5	300	
4	Paving	Paving	4/21/2017	5/18/2017	5	20	
5	Architectural Coating	Architectural Coating	5/19/2017	6/15/2017	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 380,700; Residential Outdoor: 126,900; Non-Residential Indoor: 140,100; Non-Residential Outdoor: 46,700 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	165.00	35.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	33.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000				0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.0053	4,065.0053	1.2262			4,090.7544
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343		4,065.0053	4,065.0053	1.2262			4,090.7544

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003			146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003			146.9854

3.2 Site Preparation - 2016

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000				0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036	0.0000	4,065.0053	4,065.0053	1.2262			4,090.7544
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343	0.0000	4,065.0053	4,065.0053	1.2262			4,090.7544

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003			146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003			146.9854

3.3 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975		6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940		6,414.9807	6,414.9807	1.9350		6,455.6154

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	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171
Total	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171

3.3 Grading - 2016

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154

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	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171
Total	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171

3.4 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

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	0.4224	3.3974	5.2399	8.2900e-003	0.2323	0.0507	0.2830	0.0663	0.0466	0.1129		828.6572	828.6572	6.6200e-003		828.7962
Worker	0.6114	0.7595	7.1713	0.0161	1.3554	0.0102	1.3656	0.3595	9.3500e-003	0.3689		1,345.8578	1,345.8578	0.0718		1,347.3657
Total	1.0338	4.1569	12.4112	0.0244	1.5878	0.0609	1.6486	0.4258	0.0560	0.4818		2,174.5151	2,174.5151	0.0784		2,176.1619

3.4 Building Construction - 2016

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890

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	0.4224	3.3974	5.2399	8.2900e-003	0.2323	0.0507	0.2830	0.0663	0.0466	0.1129		828.6572	828.6572	6.6200e-003		828.7962
Worker	0.6114	0.7595	7.1713	0.0161	1.3554	0.0102	1.3656	0.3595	9.3500e-003	0.3689		1,345.8578	1,345.8578	0.0718		1,347.3657
Total	1.0338	4.1569	12.4112	0.0244	1.5878	0.0609	1.6486	0.4258	0.0560	0.4818		2,174.5151	2,174.5151	0.0784		2,176.1619

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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490

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	0.3860	3.0365	4.9630	8.2700e-003	0.2323	0.0440	0.2763	0.0663	0.0405	0.1067		814.6385	814.6385	6.2600e-003		814.7701
Worker	0.5539	0.6902	6.4543	0.0161	1.3554	9.8600e-003	1.3653	0.3595	9.0900e-003	0.3686		1,293.8444	1,293.8444	0.0664		1,295.2395
Total	0.9399	3.7267	11.4173	0.0244	1.5878	0.0538	1.6416	0.4258	0.0495	0.4754		2,108.4830	2,108.4830	0.0727		2,110.0096

3.4 Building Construction - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490

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	0.3860	3.0365	4.9630	8.2700e-003	0.2323	0.0440	0.2763	0.0663	0.0405	0.1067		814.6385	814.6385	6.2600e-003		814.7701
Worker	0.5539	0.6902	6.4543	0.0161	1.3554	9.8600e-003	1.3653	0.3595	9.0900e-003	0.3686		1,293.8444	1,293.8444	0.0664		1,295.2395
Total	0.9399	3.7267	11.4173	0.0244	1.5878	0.0538	1.6416	0.4258	0.0495	0.4754		2,108.4830	2,108.4830	0.0727		2,110.0096

3.5 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360

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	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491
Total	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491

3.5 Paving - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989		2,295.7360

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	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491
Total	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491

3.6 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	241.3908					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297			282.0721
Total	241.7231	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297			282.0721

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1108	0.1380	1.2909	3.2200e-003	0.2711	1.9700e-003	0.2731	0.0719	1.8200e-003	0.0737		258.7689	258.7689	0.0133			259.0479
Total	0.1108	0.1380	1.2909	3.2200e-003	0.2711	1.9700e-003	0.2731	0.0719	1.8200e-003	0.0737		258.7689	258.7689	0.0133			259.0479

3.6 Architectural Coating - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	241.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721
Total	241.7231	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721

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	0.1108	0.1380	1.2909	3.2200e-003	0.2711	1.9700e-003	0.2731	0.0719	1.8200e-003	0.0737		258.7689	258.7689	0.0133		259.0479
Total	0.1108	0.1380	1.2909	3.2200e-003	0.2711	1.9700e-003	0.2731	0.0719	1.8200e-003	0.0737		258.7689	258.7689	0.0133		259.0479

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	26.8835	36.0684	204.1699	0.3926	26.8540	0.4871	27.3411	7.1682	0.4496	7.6178		30,006.95 43	30,006.95 43	1.2711		30,033.64 72
Unmitigated	26.8835	36.0684	204.1699	0.3926	26.8540	0.4871	27.3411	7.1682	0.4496	7.6178		30,006.95 43	30,006.95 43	1.2711		30,033.64 72

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,020.84	1,020.84	1020.84	1,903,959	1,903,959
Strip Mall	9,295.17	9,295.17	9295.17	10,788,102	10,788,102
Total	10,316.01	10,316.01	10,316.01	12,692,061	12,692,061

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
Apartments Mid Rise	5.77	5.77	5.77	41.60	18.80	39.60	86	11	3
Strip Mall	5.77	5.77	5.77	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513300	0.073549	0.191092	0.130830	0.036094	0.005140	0.012550	0.022916	0.001871	0.002062	0.006564	0.000586	0.003446

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0368	0.3177	0.1590	2.0100e-003		0.0254	0.0254		0.0254	0.0254		401.1573	401.1573	7.6900e-003	7.3500e-003	403.5986
NaturalGas Unmitigated	0.0368	0.3177	0.1590	2.0100e-003		0.0254	0.0254		0.0254	0.0254		401.1573	401.1573	7.6900e-003	7.3500e-003	403.5986

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2823.85	0.0305	0.2602	0.1107	1.6600e-003		0.0210	0.0210		0.0210	0.0210		332.2174	332.2174	6.3700e-003	6.0900e-003	334.2392
Strip Mall	585.989	6.3200e-003	0.0575	0.0483	3.4000e-004		4.3700e-003	4.3700e-003		4.3700e-003	4.3700e-003		68.9399	68.9399	1.3200e-003	1.2600e-003	69.3594
Total		0.0368	0.3177	0.1590	2.0000e-003		0.0254	0.0254		0.0254	0.0254		401.1573	401.1573	7.6900e-003	7.3500e-003	403.5986

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2.82385	0.0305	0.2602	0.1107	1.6600e-003		0.0210	0.0210		0.0210	0.0210		332.2174	332.2174	6.3700e-003	6.0900e-003	334.2392
Strip Mall	0.585989	6.3200e-003	0.0575	0.0483	3.4000e-004		4.3700e-003	4.3700e-003		4.3700e-003	4.3700e-003		68.9399	68.9399	1.3200e-003	1.2600e-003	69.3594
Total		0.0368	0.3177	0.1590	2.0000e-003		0.0254	0.0254		0.0254	0.0254		401.1573	401.1573	7.6900e-003	7.3500e-003	403.5986

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.1844	0.1801	15.5913	8.2000e-004		0.3377	0.3377		0.3351	0.3351	0.0000	4,009.1248	4,009.1248	0.1036	0.0730	4,033.9266
Unmitigated	8.1844	0.1801	15.5913	8.2000e-004		0.3377	0.3377		0.3351	0.3351	0.0000	4,009.1248	4,009.1248	0.1036	0.0730	4,033.9266

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	1.3227					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0220					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3649	2.0000e-005	0.0199	0.0000		0.2521	0.2521		0.2495	0.2495	0.0000	3,981.1765	3,981.1765	0.0763	0.0730	4,005.4053
Landscaping	0.4748	0.1801	15.5714	8.2000e-004		0.0856	0.0856		0.0856	0.0856		27.9483	27.9483	0.0273		28.5213
Total	8.1844	0.1801	15.5913	8.2000e-004		0.3377	0.3377		0.3351	0.3351	0.0000	4,009.1248	4,009.1248	0.1036	0.0730	4,033.9266

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	1.3227					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0220					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3649	2.0000e-005	0.0199	0.0000		0.2521	0.2521		0.2495	0.2495	0.0000	3,981.1765	3,981.1765	0.0763	0.0730	4,005.4053
Landscaping	0.4748	0.1801	15.5714	8.2000e-004		0.0856	0.0856		0.0856	0.0856		27.9483	27.9483	0.0273		28.5213
Total	8.1844	0.1801	15.5913	8.2000e-004		0.3377	0.3377		0.3351	0.3351	0.0000	4,009.1248	4,009.1248	0.1036	0.0730	4,033.9266

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Encinitas HEU - NE-3
San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	300.00	Dwelling Unit	10.00	300,000.00	858

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 10.00 acres

300 units

0 commercial sf

Construction Phase -

Architectural Coating - SDAPCD VOC content limit = 150 g/L

Vehicle Trips - 0.5% reduction in trip length

Woodstoves - No woodstoves, all natural gas fireplaces

Area Coating - SDAPCD VOC content limit = 150 g/L

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	150
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	165.00	300.00
tblFireplaces	NumberNoFireplace	30.00	0.00
tblFireplaces	NumberWood	105.00	0.00
tblLandUse	LotAcreage	7.89	10.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	HO_TL	7.50	5.77
tblVehicleTrips	HS_TL	7.30	5.77
tblVehicleTrips	HW_TL	10.80	5.77
tblVehicleTrips	ST_TR	7.16	5.43
tblVehicleTrips	SU_TR	6.07	5.43
tblVehicleTrips	WD_TR	6.59	5.43
tblWoodstoves	NumberCatalytic	15.00	0.00
tblWoodstoves	NumberNoncatalytic	15.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.3014	0.2872	24.8644	1.3100e-003		0.5389	0.5389		0.5347	0.5347	0.0000	6,397.5069	6,397.5069	0.1652	0.1165	6,437.0824
Energy	0.0486	0.4153	0.1767	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.1341	530.1341	0.0102	9.7200e-003	533.3604
Mobile	4.6138	7.7078	39.9295	0.0919	6.4283	0.1095	6.5379	1.7159	0.1011	1.8170		7,029.6042	7,029.6042	0.2836		7,035.5590
Total	13.9638	8.4104	64.9706	0.0959	6.4283	0.6820	7.1104	1.7159	0.6693	2.3853	0.0000	13,957.2452	13,957.2452	0.4589	0.1262	14,006.0017

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	9.3014	0.2872	24.8644	1.3100e-003		0.5389	0.5389		0.5347	0.5347	0.0000	6,397.5069	6,397.5069	0.1652	0.1165	6,437.0824
Energy	0.0486	0.4153	0.1767	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.1341	530.1341	0.0102	9.7200e-003	533.3604
Mobile	4.6138	7.7078	39.9295	0.0919	6.4283	0.1095	6.5379	1.7159	0.1011	1.8170		7,029.6042	7,029.6042	0.2836		7,035.5590
Total	13.9638	8.4104	64.9706	0.0959	6.4283	0.6820	7.1104	1.7159	0.6693	2.3853	0.0000	13,957.2452	13,957.2452	0.4589	0.1262	14,006.0017

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2016	1/14/2016	5	10	
2	Grading	Grading	1/15/2016	2/11/2016	5	20	
3	Building Construction	Building Construction	2/12/2016	12/29/2016	5	230	
4	Paving	Paving	12/30/2016	1/26/2017	5	20	
5	Architectural Coating	Architectural Coating	1/27/2017	2/23/2017	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 50

Acres of Paving: 0

Residential Indoor: 607,500; Residential Outdoor: 202,500; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	216.00	32.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	43.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.0053	4,065.0053	1.2262		4,090.7544
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343		4,065.0053	4,065.0053	1.2262		4,090.7544

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854

3.2 Site Preparation - 2016

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036	0.0000	4,065.005 3	4,065.005 3	1.2262		4,090.754 4
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343	0.0000	4,065.005 3	4,065.005 3	1.2262		4,090.754 4

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854

3.3 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975		6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940		6,414.9807	6,414.9807	1.9350		6,455.6154

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	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171
Total	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171

3.3 Grading - 2016

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154

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	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171
Total	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171

3.4 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

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	0.3862	3.1062	4.7908	7.5800e-003	0.2124	0.0463	0.2587	0.0606	0.0426	0.1032		757.6295	757.6295	6.0500e-003		757.7565
Worker	0.8004	0.9942	9.3879	0.0211	1.7744	0.0133	1.7877	0.4707	0.0122	0.4829		1,761.8503	1,761.8503	0.0940		1,763.8242
Total	1.1865	4.1004	14.1787	0.0287	1.9868	0.0597	2.0464	0.5313	0.0549	0.5861		2,519.4797	2,519.4797	0.1001		2,521.5807

3.4 Building Construction - 2016

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890

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	0.3862	3.1062	4.7908	7.5800e-003	0.2124	0.0463	0.2587	0.0606	0.0426	0.1032		757.6295	757.6295	6.0500e-003		757.7565
Worker	0.8004	0.9942	9.3879	0.0211	1.7744	0.0133	1.7877	0.4707	0.0122	0.4829		1,761.8503	1,761.8503	0.0940		1,763.8242
Total	1.1865	4.1004	14.1787	0.0287	1.9868	0.0597	2.0464	0.5313	0.0549	0.5861		2,519.4797	2,519.4797	0.1001		2,521.5807

3.5 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495

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	0.0556	0.0690	0.6519	1.4700e-003	0.1232	9.2000e-004	0.1242	0.0327	8.5000e-004	0.0335		122.3507	122.3507	6.5300e-003		122.4878
Total	0.0556	0.0690	0.6519	1.4700e-003	0.1232	9.2000e-004	0.1242	0.0327	8.5000e-004	0.0335		122.3507	122.3507	6.5300e-003		122.4878

3.5 Paving - 2016**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	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601	0.0000	2,316.3767	2,316.3767	0.6987		2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601	0.0000	2,316.3767	2,316.3767	0.6987		2,331.0495

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	0.0556	0.0690	0.6519	1.4700e-003	0.1232	9.2000e-004	0.1242	0.0327	8.5000e-004	0.0335		122.3507	122.3507	6.5300e-003		122.4878
Total	0.0556	0.0690	0.6519	1.4700e-003	0.1232	9.2000e-004	0.1242	0.0327	8.5000e-004	0.0335		122.3507	122.3507	6.5300e-003		122.4878

3.5 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360

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	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491
Total	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491

3.5 Paving - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989		2,295.7360

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	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491
Total	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491

3.6 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	281.5763					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721
Total	281.9086	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1444	0.1799	1.6820	4.2000e-003	0.3532	2.5700e-003	0.3558	0.0937	2.3700e-003	0.0961		337.1837	337.1837	0.0173		337.5473
Total	0.1444	0.1799	1.6820	4.2000e-003	0.3532	2.5700e-003	0.3558	0.0937	2.3700e-003	0.0961		337.1837	337.1837	0.0173		337.5473

3.6 Architectural Coating - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	281.5763					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721
Total	281.9086	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721

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	0.1444	0.1799	1.6820	4.2000e-003	0.3532	2.5700e-003	0.3558	0.0937	2.3700e-003	0.0961		337.1837	337.1837	0.0173		337.5473
Total	0.1444	0.1799	1.6820	4.2000e-003	0.3532	2.5700e-003	0.3558	0.0937	2.3700e-003	0.0961		337.1837	337.1837	0.0173		337.5473

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.6138	7.7078	39.9295	0.0919	6.4283	0.1095	6.5379	1.7159	0.1011	1.8170		7,029.604 2	7,029.604 2	0.2836		7,035,559 0
Unmitigated	4.6138	7.7078	39.9295	0.0919	6.4283	0.1095	6.5379	1.7159	0.1011	1.8170		7,029.604 2	7,029.604 2	0.2836		7,035,559 0

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,629.00	1,629.00	1,629.00	3,038,232	3,038,232
Total	1,629.00	1,629.00	1,629.00	3,038,232	3,038,232

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
Apartments Mid Rise	5.77	5.77	5.77	41.60	18.80	39.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513300	0.073549	0.191092	0.130830	0.036094	0.005140	0.012550	0.022916	0.001871	0.002062	0.006564	0.000586	0.003446

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0486	0.4153	0.1767	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.1341	530.1341	0.0102	9.7200e-003	533.3604
NaturalGas Unmitigated	0.0486	0.4153	0.1767	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.1341	530.1341	0.0102	9.7200e-003	533.3604

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	4506.14	0.0486	0.4153	0.1767	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.1341	530.1341	0.0102	9.7200e-003	533.3604
Total		0.0486	0.4153	0.1767	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.1341	530.1341	0.0102	9.7200e-003	533.3604

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	4.50614	0.0486	0.4153	0.1767	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.1341	530.1341	0.0102	9.7200e-003	533.3604
Total		0.0486	0.4153	0.1767	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.1341	530.1341	0.0102	9.7200e-003	533.3604

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.3014	0.2872	24.8644	1.3100e-003		0.5389	0.5389		0.5347	0.5347	0.0000	6,397.5069	6,397.5069	0.1652	0.1165	6,437.0824
Unmitigated	9.3014	0.2872	24.8644	1.3100e-003		0.5389	0.5389		0.5347	0.5347	0.0000	6,397.5069	6,397.5069	0.1652	0.1165	6,437.0824

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	1.5429					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.4200					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5824	3.0000e-005	0.0318	0.0000		0.4024	0.4024		0.3981	0.3981	0.0000	6,352.9412	6,352.9412	0.1218	0.1165	6,391.6041
Landscaping	0.7562	0.2872	24.8327	1.3100e-003		0.1366	0.1366		0.1366	0.1366		44.5657	44.5657	0.0435		45.4783
Total	9.3014	0.2872	24.8644	1.3100e-003		0.5389	0.5389		0.5347	0.5347	0.0000	6,397.5069	6,397.5069	0.1652	0.1165	6,437.0824

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	1.5429					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.4200					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5824	3.0000e-005	0.0318	0.0000		0.4024	0.4024		0.3981	0.3981	0.0000	6,352.9412	6,352.9412	0.1218	0.1165	6,391.6041
Landscaping	0.7562	0.2872	24.8327	1.3100e-003		0.1366	0.1366		0.1366	0.1366		44.5657	44.5657	0.0435		45.4783
Total	9.3014	0.2872	24.8644	1.3100e-003		0.5389	0.5389		0.5347	0.5347	0.0000	6,397.5069	6,397.5069	0.1652	0.1165	6,437.0824

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Encinitas HEU - NE-4
San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	378.00	Dwelling Unit	14.88	378,000.00	1081
Strip Mall	175.00	1000sqft	4.02	175,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 18.9 acres

378 units

175,000 commercial sf

Construction Phase -

Architectural Coating - SDAPCD VOC content limit = 150 g/L

Vehicle Trips - 0.6% reduction in trip length

Woodstoves - No woodstoves, all natural gas fireplaces

Area Coating - SDAPCD VOC content limit = 150 g/L

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	150
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	207.90	378.00
tblFireplaces	NumberNoFireplace	37.80	0.00
tblFireplaces	NumberWood	132.30	0.00
tblLandUse	LotAcreage	9.95	14.88
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	CC_TL	7.30	5.76
tblVehicleTrips	CNW_TL	7.30	5.76
tblVehicleTrips	CW_TL	9.50	5.76
tblVehicleTrips	HO_TL	7.50	5.76
tblVehicleTrips	HS_TL	7.30	5.76
tblVehicleTrips	HW_TL	10.80	5.76
tblVehicleTrips	ST_TR	7.16	4.38
tblVehicleTrips	ST_TR	42.04	80.27
tblVehicleTrips	SU_TR	6.07	4.38
tblVehicleTrips	SU_TR	20.43	80.27
tblVehicleTrips	WD_TR	6.59	4.38
tblVehicleTrips	WD_TR	44.32	80.27

tblWoodstoves	NumberCatalytic	18.90	0.00
tblWoodstoves	NumberNoncatalytic	18.90	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	16.1332	0.3621	31.3472	1.6500e-003		0.6791	0.6791		0.6737	0.6737	0.0000	8,060.8970	8,060.8970	0.2083	0.1468	8,110.7643
Energy	0.0731	0.6309	0.3131	3.9900e-003		0.0505	0.0505		0.0505	0.0505		797.1390	797.1390	0.0153	0.0146	801.9902
Mobile	40.9353	54.9772	311.0688	0.5988	40.9577	0.7427	41.7003	10.9330	0.6855	11.6184		45,760.8209	45,760.8209	1.9379		45,801.5168
Total	57.1416	55.9701	342.7290	0.6044	40.9577	1.4722	42.4299	10.9330	1.4097	12.3427	0.0000	54,618.8568	54,618.8568	2.1615	0.1614	54,714.2713

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	16.1332	0.3621	31.3472	1.6500e-003		0.6791	0.6791		0.6737	0.6737	0.0000	8,060.8970	8,060.8970	0.2083	0.1468	8,110.7643
Energy	0.0731	0.6309	0.3131	3.9900e-003		0.0505	0.0505		0.0505	0.0505		797.1390	797.1390	0.0153	0.0146	801.9902
Mobile	40.9353	54.9772	311.0688	0.5988	40.9577	0.7427	41.7003	10.9330	0.6855	11.6184		45,760.8209	45,760.8209	1.9379		45,801.5168
Total	57.1416	55.9701	342.7290	0.6044	40.9577	1.4722	42.4299	10.9330	1.4097	12.3427	0.0000	54,618.8568	54,618.8568	2.1615	0.1614	54,714.2713

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/29/2016	2/11/2016	5	10	
2	Grading	Grading	2/12/2016	3/24/2016	5	30	
3	Building Construction	Building Construction	3/25/2016	5/18/2017	5	300	
4	Paving	Paving	5/19/2017	6/15/2017	5	20	
5	Architectural Coating	Architectural Coating	6/16/2017	7/13/2017	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 765,450; Residential Outdoor: 255,150; Non-Residential Indoor: 262,500; Non-Residential Outdoor: 87,500 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	328.00	69.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	66.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.005 3	4,065.005 3	1.2262		4,090.754 4
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343		4,065.005 3	4,065.005 3	1.2262		4,090.754 4

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854

3.2 Site Preparation - 2016

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036	0.0000	4,065.005 3	4,065.005 3	1.2262		4,090.754 4
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343	0.0000	4,065.005 3	4,065.005 3	1.2262		4,090.754 4

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854

3.3 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975		6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940		6,414.9807	6,414.9807	1.9350		6,455.6154

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	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171
Total	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171

3.3 Grading - 2016

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154

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	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171
Total	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171

3.4 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

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	0.8327	6.6977	10.3301	0.0163	0.4580	0.0999	0.5579	0.1307	0.0919	0.2225		1,633.6386	1,633.6386	0.0130		1,633.9125
Worker	1.2154	1.5098	14.2557	0.0321	2.6944	0.0202	2.7147	0.7147	0.0186	0.7333		2,675.4022	2,675.4022	0.1427		2,678.3997
Total	2.0481	8.2075	24.5858	0.0484	3.1524	0.1201	3.2726	0.8454	0.1105	0.9558		4,309.0408	4,309.0408	0.1558		4,312.3121

3.4 Building Construction - 2016

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890

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	0.8327	6.6977	10.3301	0.0163	0.4580	0.0999	0.5579	0.1307	0.0919	0.2225		1,633.6386	1,633.6386	0.0130		1,633.9125
Worker	1.2154	1.5098	14.2557	0.0321	2.6944	0.0202	2.7147	0.7147	0.0186	0.7333		2,675.4022	2,675.4022	0.1427		2,678.3997
Total	2.0481	8.2075	24.5858	0.0484	3.1524	0.1201	3.2726	0.8454	0.1105	0.9558		4,309.0408	4,309.0408	0.1558		4,312.3121

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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490

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	0.7609	5.9863	9.7842	0.0163	0.4580	0.0867	0.5447	0.1307	0.0797	0.2104		1,606.0017	1,606.0017	0.0124		1,606.2610
Worker	1.1011	1.3720	12.8304	0.0320	2.6944	0.0196	2.7140	0.7147	0.0181	0.7328		2,572.0059	2,572.0059	0.1321		2,574.7792
Total	1.8619	7.3583	22.6146	0.0483	3.1524	0.1063	3.2587	0.8454	0.0978	0.9432		4,178.0076	4,178.0076	0.1444		4,181.0402

3.4 Building Construction - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490

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	0.7609	5.9863	9.7842	0.0163	0.4580	0.0867	0.5447	0.1307	0.0797	0.2104		1,606.0017	1,606.0017	0.0124		1,606.2610
Worker	1.1011	1.3720	12.8304	0.0320	2.6944	0.0196	2.7140	0.7147	0.0181	0.7328		2,572.0059	2,572.0059	0.1321		2,574.7792
Total	1.8619	7.3583	22.6146	0.0483	3.1524	0.1063	3.2587	0.8454	0.0978	0.9432		4,178.0076	4,178.0076	0.1444		4,181.0402

3.5 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360

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	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491
Total	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491

3.5 Paving - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989		2,295.7360

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	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491
Total	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491

3.6 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	476.4548					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721
Total	476.7871	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2216	0.2761	2.5817	6.4500e-003	0.5422	3.9400e-003	0.5461	0.1438	3.6400e-003	0.1475		517.5378	517.5378	0.0266		518.0958
Total	0.2216	0.2761	2.5817	6.4500e-003	0.5422	3.9400e-003	0.5461	0.1438	3.6400e-003	0.1475		517.5378	517.5378	0.0266		518.0958

3.6 Architectural Coating - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	476.4548					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721
Total	476.7871	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721

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	0.2216	0.2761	2.5817	6.4500e-003	0.5422	3.9400e-003	0.5461	0.1438	3.6400e-003	0.1475		517.5378	517.5378	0.0266		518.0958
Total	0.2216	0.2761	2.5817	6.4500e-003	0.5422	3.9400e-003	0.5461	0.1438	3.6400e-003	0.1475		517.5378	517.5378	0.0266		518.0958

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	40.9353	54.9772	311.0688	0.5988	40.9577	0.7427	41.7003	10.9330	0.6855	11.6184		45,760.8209	45,760.8209	1.9379		45,801.5168
Unmitigated	40.9353	54.9772	311.0688	0.5988	40.9577	0.7427	41.7003	10.9330	0.6855	11.6184		45,760.8209	45,760.8209	1.9379		45,801.5168

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,655.64	1,655.64	1655.64	3,082,570	3,082,570
Strip Mall	14,047.25	14,047.25	14,047.25	16,275,312	16,275,312
Total	15,702.89	15,702.89	15,702.89	19,357,882	19,357,882

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
Apartments Mid Rise	5.76	5.76	5.76	41.60	18.80	39.60	86	11	3
Strip Mall	5.76	5.76	5.76	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513300	0.073549	0.191092	0.130830	0.036094	0.005140	0.012550	0.022916	0.001871	0.002062	0.006564	0.000586	0.003446

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0731	0.6309	0.3131	3.9900e-003		0.0505	0.0505		0.0505	0.0505		797.1390	797.1390	0.0153	0.0146	801.9902
NaturalGas Unmitigated	0.0731	0.6309	0.3131	3.9900e-003		0.0505	0.0505		0.0505	0.0505		797.1390	797.1390	0.0153	0.0146	801.9902

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	5677.74	0.0612	0.5232	0.2227	3.3400e-003		0.0423	0.0423		0.0423	0.0423		667.9690	667.9690	0.0128	0.0123	672.0341
Strip Mall	1097.95	0.0118	0.1076	0.0904	6.5000e-004		8.1800e-003	8.1800e-003		8.1800e-003	8.1800e-003		129.1700	129.1700	2.4800e-003	2.3700e-003	129.9561
Total		0.0731	0.6309	0.3131	3.9900e-003		0.0505	0.0505		0.0505	0.0505		797.1390	797.1390	0.0153	0.0146	801.9902

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	5.67774	0.0612	0.5232	0.2227	3.3400e-003		0.0423	0.0423		0.0423	0.0423		667.9690	667.9690	0.0128	0.0123	672.0341
Strip Mall	1.09795	0.0118	0.1076	0.0904	6.5000e-004		8.1800e-003	8.1800e-003		8.1800e-003	8.1800e-003		129.1700	129.1700	2.4800e-003	2.3700e-003	129.9561
Total		0.0731	0.6309	0.3131	3.9900e-003		0.0505	0.0505		0.0505	0.0505		797.1390	797.1390	0.0153	0.0146	801.9902

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	16.1332	0.3621	31.3472	1.6500e-003		0.6791	0.6791		0.6737	0.6737	0.0000	8,060.8970	8,060.8970	0.2083	0.1468	8,110.7643
Unmitigated	16.1332	0.3621	31.3472	1.6500e-003		0.6791	0.6791		0.6737	0.6737	0.0000	8,060.8970	8,060.8970	0.2083	0.1468	8,110.7643

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	2.6107					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.8342					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.7338	3.0000e-005	0.0400	0.0000		0.5070	0.5070		0.5016	0.5016	0.0000	8,004.7059	8,004.7059	0.1534	0.1468	8,053.4212
Landscaping	0.9545	0.3621	31.3071	1.6500e-003		0.1721	0.1721		0.1721	0.1721		56.1911	56.1911	0.0549		57.3431
Total	16.1331	0.3621	31.3472	1.6500e-003		0.6791	0.6791		0.6737	0.6737	0.0000	8,060.8970	8,060.8970	0.2083	0.1468	8,110.7643

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	2.6107					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.8342					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.7338	3.0000e-005	0.0400	0.0000		0.5070	0.5070		0.5016	0.5016	0.0000	8,004.7059	8,004.7059	0.1534	0.1468	8,053.4212
Landscaping	0.9545	0.3621	31.3071	1.6500e-003		0.1721	0.1721		0.1721	0.1721		56.1911	56.1911	0.0549		57.3431
Total	16.1331	0.3621	31.3472	1.6500e-003		0.6791	0.6791		0.6737	0.6737	0.0000	8,060.8970	8,060.8970	0.2083	0.1468	8,110.7643

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Encinitas HEU - OE-5
San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	243.00	Dwelling Unit	7.89	243,000.00	695
Strip Mall	186.30	1000sqft	4.28	186,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 12.17 acres

243 units

186,300 commercial sf

Construction Phase -

Architectural Coating - SDAPCD VOC content limit = 150 g/L

Vehicle Trips - 0.6% reduction in trip length

Woodstoves - No woodstoves, all natural gas fireplaces

Area Coating - SDAPCD VOC content limit = 150 g/L

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	150
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	133.65	243.00
tblFireplaces	NumberNoFireplace	24.30	0.00
tblFireplaces	NumberWood	85.05	0.00
tblLandUse	LotAcreage	6.39	7.89
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	CC_TL	7.30	5.76
tblVehicleTrips	CNW_TL	7.30	5.76
tblVehicleTrips	CW_TL	9.50	5.76
tblVehicleTrips	HO_TL	7.50	5.76
tblVehicleTrips	HS_TL	7.30	5.76
tblVehicleTrips	HW_TL	10.80	5.76
tblVehicleTrips	ST_TR	7.16	4.38
tblVehicleTrips	ST_TR	42.04	80.27
tblVehicleTrips	SU_TR	6.07	4.38
tblVehicleTrips	SU_TR	20.43	80.27
tblVehicleTrips	WD_TR	6.59	4.38
tblVehicleTrips	WD_TR	44.32	80.27

tblWoodstoves	NumberCatalytic	12.15	0.00
tblWoodstoves	NumberNoncatalytic	12.15	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.2325	0.2328	20.1593	1.0600e-003		0.4366	0.4366		0.4332	0.4332	0.0000	5,182.0213	5,182.0213	0.1339	0.0943	5,214.0798
Energy	0.0520	0.4510	0.2394	2.8300e-003		0.0359	0.0359		0.0359	0.0359		566.9193	566.9193	0.0109	0.0104	570.3695
Mobile	41.6019	55.2278	314.0575	0.5981	40.8519	0.7437	41.5956	10.9047	0.6865	11.5912		45,707.6959	45,707.6959	1.9417		45,748.4711
Total	53.8863	55.9116	334.4562	0.6020	40.8519	1.2162	42.0681	10.9047	1.1555	12.0603	0.0000	51,456.6365	51,456.6365	2.0865	0.1047	51,532.9204

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	12.2325	0.2328	20.1593	1.0600e-003		0.4366	0.4366		0.4332	0.4332	0.0000	5,182.0213	5,182.0213	0.1339	0.0943	5,214.0798
Energy	0.0520	0.4510	0.2394	2.8300e-003		0.0359	0.0359		0.0359	0.0359		566.9193	566.9193	0.0109	0.0104	570.3695
Mobile	41.6019	55.2278	314.0575	0.5981	40.8519	0.7437	41.5956	10.9047	0.6865	11.5912		45,707.6959	45,707.6959	1.9417		45,748.4711
Total	53.8863	55.9116	334.4562	0.6020	40.8519	1.2162	42.0681	10.9047	1.1555	12.0603	0.0000	51,456.6365	51,456.6365	2.0865	0.1047	51,532.9204

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2016	1/14/2016	5	10	
2	Grading	Grading	1/15/2016	2/25/2016	5	30	
3	Building Construction	Building Construction	2/26/2016	4/20/2017	5	300	
4	Paving	Paving	4/21/2017	5/18/2017	5	20	
5	Architectural Coating	Architectural Coating	5/19/2017	6/15/2017	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 492,075; Residential Outdoor: 164,025; Non-Residential Indoor: 279,450; Non-Residential Outdoor: 93,150 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	235.00	57.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	47.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.0053	4,065.0053	1.2262		4,090.7544
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343		4,065.0053	4,065.0053	1.2262		4,090.7544

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854

3.2 Site Preparation - 2016

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036	0.0000	4,065.0053	4,065.0053	1.2262		4,090.7544
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343	0.0000	4,065.0053	4,065.0053	1.2262		4,090.7544

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854

3.3 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975		6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940		6,414.9807	6,414.9807	1.9350		6,455.6154

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	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171
Total	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171

3.3 Grading - 2016

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154

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	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171
Total	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171

3.4 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

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	0.6879	5.5329	8.5336	0.0135	0.3783	0.0825	0.4609	0.1079	0.0759	0.1838		1,349.5275	1,349.5275	0.0108		1,349.7538
Worker	0.8708	1.0817	10.2137	0.0230	1.9305	0.0145	1.9450	0.5121	0.0133	0.5254		1,916.8278	1,916.8278	0.1023		1,918.9754
Total	1.5586	6.6146	18.7472	0.0365	2.3088	0.0970	2.4058	0.6200	0.0892	0.7092		3,266.3553	3,266.3553	0.1130		3,268.7291

3.4 Building Construction - 2016**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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890

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	0.6879	5.5329	8.5336	0.0135	0.3783	0.0825	0.4609	0.1079	0.0759	0.1838		1,349.5275	1,349.5275	0.0108		1,349.7538
Worker	0.8708	1.0817	10.2137	0.0230	1.9305	0.0145	1.9450	0.5121	0.0133	0.5254		1,916.8278	1,916.8278	0.1023		1,918.9754
Total	1.5586	6.6146	18.7472	0.0365	2.3088	0.0970	2.4058	0.6200	0.0892	0.7092		3,266.3553	3,266.3553	0.1130		3,268.7291

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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490

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	0.6285	4.9452	8.0826	0.0135	0.3784	0.0716	0.4500	0.1079	0.0659	0.1738		1,326.6970	1,326.6970	0.0102		1,326.9113
Worker	0.7889	0.9830	9.1925	0.0230	1.9305	0.0140	1.9445	0.5121	0.0130	0.5250		1,842.7482	1,842.7482	0.0946		1,844.7351
Total	1.4174	5.9282	17.2751	0.0364	2.3088	0.0857	2.3945	0.6200	0.0788	0.6988		3,169.4452	3,169.4452	0.1048		3,171.6464

3.4 Building Construction - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490

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	0.6285	4.9452	8.0826	0.0135	0.3784	0.0716	0.4500	0.1079	0.0659	0.1738		1,326.6970	1,326.6970	0.0102		1,326.9113
Worker	0.7889	0.9830	9.1925	0.0230	1.9305	0.0140	1.9445	0.5121	0.0130	0.5250		1,842.7482	1,842.7482	0.0946		1,844.7351
Total	1.4174	5.9282	17.2751	0.0364	2.3088	0.0857	2.3945	0.6200	0.0788	0.6988		3,169.4452	3,169.4452	0.1048		3,171.6464

3.5 Paving - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360

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	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491
Total	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491

3.5 Paving - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989		2,295.7360

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	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491
Total	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491

3.6 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	357.6018					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721
Total	357.9342	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1578	0.1966	1.8385	4.5900e-003	0.3861	2.8100e-003	0.3889	0.1024	2.5900e-003	0.1050		368.5496	368.5496	0.0189		368.9470
Total	0.1578	0.1966	1.8385	4.5900e-003	0.3861	2.8100e-003	0.3889	0.1024	2.5900e-003	0.1050		368.5496	368.5496	0.0189		368.9470

3.6 Architectural Coating - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	357.6018					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297			282.0721
Total	357.9342	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297			282.0721

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	0.1578	0.1966	1.8385	4.5900e-003	0.3861	2.8100e-003	0.3889	0.1024	2.5900e-003	0.1050		368.5496	368.5496	0.0189			368.9470
Total	0.1578	0.1966	1.8385	4.5900e-003	0.3861	2.8100e-003	0.3889	0.1024	2.5900e-003	0.1050		368.5496	368.5496	0.0189			368.9470

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	41.6019	55.2278	314.0575	0.5981	40.8519	0.7437	41.5956	10.9047	0.6865	11.5912		45,707.69 59	45,707.69 59	1.9417		45,748.47 11
Unmitigated	41.6019	55.2278	314.0575	0.5981	40.8519	0.7437	41.5956	10.9047	0.6865	11.5912		45,707.69 59	45,707.69 59	1.9417		45,748.47 11

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,064.34	1,064.34	1064.34	1,981,652	1,981,652
Strip Mall	14,954.30	14,954.30	14954.30	17,326,233	17,326,233
Total	16,018.64	16,018.64	16,018.64	19,307,885	19,307,885

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
Apartments Mid Rise	5.76	5.76	5.76	41.60	18.80	39.60	86	11	3
Strip Mall	5.76	5.76	5.76	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513300	0.073549	0.191092	0.130830	0.036094	0.005140	0.012550	0.022916	0.001871	0.002062	0.006564	0.000586	0.003446

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0520	0.4510	0.2394	2.8300e-003		0.0359	0.0359		0.0359	0.0359		566.9193	566.9193	0.0109	0.0104	570.3695
NaturalGas Unmitigated	0.0520	0.4510	0.2394	2.8300e-003		0.0359	0.0359		0.0359	0.0359		566.9193	566.9193	0.0109	0.0104	570.3695

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	3649.97	0.0394	0.3364	0.1431	2.1500e-003		0.0272	0.0272		0.0272	0.0272		429.4086	429.4086	8.2300e-003	7.8700e-003	432.0219
Strip Mall	1168.84	0.0126	0.1146	0.0963	6.9000e-004		8.7100e-003	8.7100e-003		8.7100e-003	8.7100e-003		137.5107	137.5107	2.6400e-003	2.5200e-003	138.3476
Total		0.0520	0.4510	0.2394	2.8400e-003		0.0359	0.0359		0.0359	0.0359		566.9193	566.9193	0.0109	0.0104	570.3695

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	3.64997	0.0394	0.3364	0.1431	2.1500e-003		0.0272	0.0272		0.0272	0.0272		429.4086	429.4086	8.2300e-003	7.8700e-003	432.0219
Strip Mall	1.16884	0.0126	0.1146	0.0963	6.9000e-004		8.7100e-003	8.7100e-003		8.7100e-003	8.7100e-003		137.5107	137.5107	2.6400e-003	2.5200e-003	138.3476
Total		0.0520	0.4510	0.2394	2.8400e-003		0.0359	0.0359		0.0359	0.0359		566.9193	566.9193	0.0109	0.0104	570.3695

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	12.2325	0.2328	20.1593	1.0600e-003		0.4366	0.4366		0.4332	0.4332	0.0000	5,182.0213	5,182.0213	0.1339	0.0943	5,214.0798
Unmitigated	12.2325	0.2328	20.1593	1.0600e-003		0.4366	0.4366		0.4332	0.4332	0.0000	5,182.0213	5,182.0213	0.1339	0.0943	5,214.0798

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	1.9595					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.1870					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4717	2.0000e-005	0.0257	0.0000		0.3259	0.3259		0.3225	0.3225	0.0000	5,145.8824	5,145.8824	0.0986	0.0943	5,177.1993
Landscaping	0.6143	0.2328	20.1336	1.0600e-003		0.1107	0.1107		0.1107	0.1107		36.1390	36.1390	0.0353		36.8805
Total	12.2325	0.2328	20.1593	1.0600e-003		0.4366	0.4366		0.4332	0.4332	0.0000	5,182.0213	5,182.0213	0.1339	0.0943	5,214.0798

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	1.9595					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.1870					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4717	2.0000e-005	0.0257	0.0000		0.3259	0.3259		0.3225	0.3225	0.0000	5,145.8824	5,145.8824	0.0986	0.0943	5,177.1993
Landscaping	0.6143	0.2328	20.1336	1.0600e-003		0.1107	0.1107		0.1107	0.1107		36.1390	36.1390	0.0353		36.8805
Total	12.2325	0.2328	20.1593	1.0600e-003		0.4366	0.4366		0.4332	0.4332	0.0000	5,182.0213	5,182.0213	0.1339	0.0943	5,214.0798

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Encinitas HEU - OE-8
San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	222.00	Dwelling Unit	7.59	222,000.00	635
Strip Mall	152.38	1000sqft	3.50	152,380.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 11.09 acres
 222 units
 152,380 commercial sf

Construction Phase -

Grading -

Architectural Coating - SDAPCD VOC content limit = 150 g/L

Vehicle Trips - 0.5% reduction in trip length

Woodstoves - No woodstoves, all natural gas fireplaces

Area Coating - SDAPCD VOC content limit = 150 g/L

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	150
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	122.10	222.00
tblFireplaces	NumberNoFireplace	22.20	0.00
tblFireplaces	NumberWood	77.70	0.00
tblLandUse	LotAcreage	5.84	7.59
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	CC_TL	7.30	5.77

tblVehicleTrips	CNW_TL	7.30	5.77
tblVehicleTrips	CW_TL	9.50	5.77
tblVehicleTrips	HO_TL	7.50	5.77
tblVehicleTrips	HS_TL	7.30	5.77
tblVehicleTrips	HW_TL	10.80	5.77
tblVehicleTrips	ST_TR	7.16	5.43
tblVehicleTrips	ST_TR	42.04	99.52
tblVehicleTrips	SU_TR	6.07	5.43
tblVehicleTrips	SU_TR	20.43	99.52
tblVehicleTrips	WD_TR	6.59	5.43
tblVehicleTrips	WD_TR	44.32	99.52
tblWoodstoves	NumberCatalytic	11.10	0.00
tblWoodstoves	NumberNoncatalytic	11.10	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	10.7260	0.2127	18.4153	9.7000e-004		0.3988	0.3988		0.3957	0.3957	0.0000	4,734.1884	4,734.1884	0.1224	0.0862	4,763.4762
Energy	0.0463	0.4010	0.2095	2.5200e-003		0.0320	0.0320		0.0320	0.0320		504.7731	504.7731	9.6700e-003	9.2500e-003	507.8451
Mobile	42.5569	56.6681	321.8229	0.6146	41.9964	0.7638	42.7602	11.2103	0.7050	11.9152		46,970.5632	46,970.5632	1.9937		47,012.4306
Total	53.3292	57.2819	340.4477	0.6181	41.9964	1.1946	43.1910	11.2103	1.1326	12.3429	0.0000	52,209.5247	52,209.5247	2.1257	0.0954	52,283.7518

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	10.7260	0.2127	18.4153	9.7000e-004		0.3988	0.3988		0.3957	0.3957	0.0000	4,734.1884	4,734.1884	0.1224	0.0862	4,763.4762
Energy	0.0463	0.4010	0.2095	2.5200e-003		0.0320	0.0320		0.0320	0.0320		504.7731	504.7731	9.6700e-003	9.2500e-003	507.8451
Mobile	42.5569	56.6681	321.8229	0.6146	41.9964	0.7638	42.7602	11.2103	0.7050	11.9152		46,970.5632	46,970.5632	1.9937		47,012.4306
Total	53.3292	57.2819	340.4477	0.6181	41.9964	1.1946	43.1910	11.2103	1.1326	12.3429	0.0000	52,209.5247	52,209.5247	2.1257	0.0954	52,283.7518

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2016	1/14/2016	5	10	
2	Grading	Grading	1/15/2016	2/25/2016	5	30	
3	Building Construction	Building Construction	2/26/2016	4/20/2017	5	300	
4	Paving	Paving	4/21/2017	5/18/2017	5	20	
5	Architectural Coating	Architectural Coating	5/19/2017	6/15/2017	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 449,550; Residential Outdoor: 149,850; Non-Residential Indoor: 228,570; Non-Residential Outdoor: 76,190 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	209.00	49.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	42.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.005 3	4,065.005 3	1.2262		4,090.754 4
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343		4,065.005 3	4,065.005 3	1.2262		4,090.754 4

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854

3.2 Site Preparation - 2016

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036	0.0000	4,065.005 3	4,065.005 3	1.2262		4,090.754 4
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343	0.0000	4,065.005 3	4,065.005 3	1.2262		4,090.754 4

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	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854
Total	0.0667	0.0829	0.7823	1.7600e-003	0.1479	1.1100e-003	0.1490	0.0392	1.0200e-003	0.0402		146.8209	146.8209	7.8300e-003		146.9854

3.3 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975		6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940		6,414.9807	6,414.9807	1.9350		6,455.6154

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	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171
Total	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171

3.3 Grading - 2016

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.6733	3.5842	12.2576	3.5965	3.2975	6.8940	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154

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	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171
Total	0.0741	0.0921	0.8693	1.9500e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		163.1343	163.1343	8.7000e-003		163.3171

3.4 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

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	0.5913	4.7564	7.3359	0.0116	0.3252	0.0710	0.3962	0.0928	0.0653	0.1580		1,160.1201	1,160.1201	9.2600e-003		1,160.3146
Worker	0.7744	0.9620	9.0837	0.0204	1.7169	0.0129	1.7298	0.4554	0.0118	0.4672		1,704.7533	1,704.7533	0.0910		1,706.6632
Total	1.3658	5.7184	16.4195	0.0320	2.0421	0.0838	2.1260	0.5482	0.0771	0.6253		2,864.8734	2,864.8734	0.1002		2,866.9778

3.4 Building Construction - 2016

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620		2,683.1890

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	0.5913	4.7564	7.3359	0.0116	0.3252	0.0710	0.3962	0.0928	0.0653	0.1580		1,160.1201	1,160.1201	9.2600e-003		1,160.3146
Worker	0.7744	0.9620	9.0837	0.0204	1.7169	0.0129	1.7298	0.4554	0.0118	0.4672		1,704.7533	1,704.7533	0.0910		1,706.6632
Total	1.3658	5.7184	16.4195	0.0320	2.0421	0.0838	2.1260	0.5482	0.0771	0.6253		2,864.8734	2,864.8734	0.1002		2,866.9778

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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490

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	0.5403	4.2511	6.9482	0.0116	0.3253	0.0616	0.3868	0.0928	0.0566	0.1494		1,140.4939	1,140.4939	8.7700e-003		1,140.6781
Worker	0.7016	0.8743	8.1755	0.0204	1.7169	0.0125	1.7294	0.4554	0.0115	0.4669		1,638.8696	1,638.8696	0.0842		1,640.6367
Total	1.2419	5.1254	15.1237	0.0320	2.0421	0.0741	2.1162	0.5482	0.0682	0.6163		2,779.3636	2,779.3636	0.0929		2,781.3148

3.4 Building Construction - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490

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	0.5403	4.2511	6.9482	0.0116	0.3253	0.0616	0.3868	0.0928	0.0566	0.1494		1,140.4939	1,140.4939	8.7700e-003		1,140.6781
Worker	0.7016	0.8743	8.1755	0.0204	1.7169	0.0125	1.7294	0.4554	0.0115	0.4669		1,638.8696	1,638.8696	0.0842		1,640.6367
Total	1.2419	5.1254	15.1237	0.0320	2.0421	0.0741	2.1162	0.5482	0.0682	0.6163		2,779.3636	2,779.3636	0.0929		2,781.3148

3.5 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360

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	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491
Total	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491

3.5 Paving - 2017**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989		2,295.7360

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	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491
Total	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491

3.6 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	314.3086					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297			282.0721
Total	314.6409	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297			282.0721

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1410	0.1757	1.6429	4.1000e-003	0.3450	2.5100e-003	0.3475	0.0915	2.3100e-003	0.0938		329.3422	329.3422	0.0169			329.6973
Total	0.1410	0.1757	1.6429	4.1000e-003	0.3450	2.5100e-003	0.3475	0.0915	2.3100e-003	0.0938		329.3422	329.3422	0.0169			329.6973

3.6 Architectural Coating - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	314.3086					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721
Total	314.6409	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721

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	0.1410	0.1757	1.6429	4.1000e-003	0.3450	2.5100e-003	0.3475	0.0915	2.3100e-003	0.0938		329.3422	329.3422	0.0169		329.6973
Total	0.1410	0.1757	1.6429	4.1000e-003	0.3450	2.5100e-003	0.3475	0.0915	2.3100e-003	0.0938		329.3422	329.3422	0.0169		329.6973

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	42.5569	56.6681	321.8229	0.6146	41.9964	0.7638	42.7602	11.2103	0.7050	11.9152		46,970.5632	46,970.5632	1.9937		47,012.4306
Unmitigated	42.5569	56.6681	321.8229	0.6146	41.9964	0.7638	42.7602	11.2103	0.7050	11.9152		46,970.5632	46,970.5632	1.9937		47,012.4306

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,205.46	1,205.46	1205.46	2,248,292	2,248,292
Strip Mall	15,164.86	15,164.86	15164.86	17,600,546	17,600,546
Total	16,370.32	16,370.32	16,370.32	19,848,838	19,848,838

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
Apartments Mid Rise	5.77	5.77	5.77	41.60	18.80	39.60	86	11	3
Strip Mall	5.77	5.77	5.77	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513300	0.073549	0.191092	0.130830	0.036094	0.005140	0.012550	0.022916	0.001871	0.002062	0.006564	0.000586	0.003446

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0463	0.4010	0.2095	2.5200e-003		0.0320	0.0320		0.0320	0.0320		504.7731	504.7731	9.6700e-003	9.2500e-003	507.8451
NaturalGas Unmitigated	0.0463	0.4010	0.2095	2.5200e-003		0.0320	0.0320		0.0320	0.0320		504.7731	504.7731	9.6700e-003	9.2500e-003	507.8451

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	3334.54	0.0360	0.3073	0.1308	1.9600e-003		0.0249	0.0249		0.0249	0.0249		392.2992	392.2992	7.5200e-003	7.1900e-003	394.6867
Strip Mall	956.028	0.0103	0.0937	0.0787	5.6000e-004		7.1200e-003	7.1200e-003		7.1200e-003	7.1200e-003		112.4739	112.4739	2.1600e-003	2.0600e-003	113.1584
Total		0.0463	0.4010	0.2095	2.5200e-003		0.0320	0.0320		0.0320	0.0320		504.7731	504.7731	9.6800e-003	9.2500e-003	507.8451

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	3.33454	0.0360	0.3073	0.1308	1.9600e-003		0.0249	0.0249		0.0249	0.0249		392.2992	392.2992	7.5200e-003	7.1900e-003	394.6867
Strip Mall	0.956028	0.0103	0.0937	0.0787	5.6000e-004		7.1200e-003	7.1200e-003		7.1200e-003	7.1200e-003		112.4739	112.4739	2.1600e-003	2.0600e-003	113.1584
Total		0.0463	0.4010	0.2095	2.5200e-003		0.0320	0.0320		0.0320	0.0320		504.7731	504.7731	9.6800e-003	9.2500e-003	507.8451

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	10.7260	0.2127	18.4153	9.7000e-004		0.3988	0.3988		0.3957	0.3957	0.0000	4,734.1884	4,734.1884	0.1224	0.0862	4,763.4762
Unmitigated	10.7260	0.2127	18.4153	9.7000e-004		0.3988	0.3988		0.3957	0.3957	0.0000	4,734.1884	4,734.1884	0.1224	0.0862	4,763.4762

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	1.7222					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.0117					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4309	2.0000e-005	0.0235	0.0000		0.2977	0.2977		0.2946	0.2946	0.0000	4,701.1765	4,701.1765	0.0901	0.0862	4,729.7871
Landscaping	0.5610	0.2127	18.3918	9.7000e-004		0.1011	0.1011		0.1011	0.1011		33.0120	33.0120	0.0323		33.6892
Total	10.7260	0.2127	18.4153	9.7000e-004		0.3988	0.3988		0.3957	0.3957	0.0000	4,734.1884	4,734.1884	0.1224	0.0862	4,763.4762

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	1.7222					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.0117					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4309	2.0000e-005	0.0235	0.0000		0.2977	0.2977		0.2946	0.2946	0.0000	4,701.1765	4,701.1765	0.0901	0.0862	4,729.7871
Landscaping	0.5610	0.2127	18.3918	9.7000e-004		0.1011	0.1011		0.1011	0.1011		33.0120	33.0120	0.0323		33.6892
Total	10.7260	0.2127	18.4153	9.7000e-004		0.3988	0.3988		0.3957	0.3957	0.0000	4,734.1884	4,734.1884	0.1224	0.0862	4,763.4762

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: C:\Lakes\CALRoads View\7722_11_ElCaminoR
 RUN: CALINE4 RUN (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 0.5 M/S Z0= 100. CM ALT= 0. (M)
 BRG= WORST CASE VD= 0.0 CM/S
 CLAS= 7 (G) VS= 0.0 CM/S
 MIXH= 1000. M AMB= 4.4 PPM
 SIGTH= 5. DEGREES TEMP= 12.2 DEGREE (C)

II. LINK VARIABLES

LINK	* LINK COORDINATES (M) *	EF	H	W
DESCRIPTION	* X1 Y1 X2 Y2 * TYPE	VPH	(G/MI)	(M) (M)
A. LINK A	* ***** * AG	2000	5.4	0.0 15.0
B. LINK B	* ***** * AG	1190	4.4	0.0 15.0
C. LINK C	* ***** * AG	1730	5.4	0.0 15.0
D. LINK D	* ***** * AG	1730	5.4	0.0 15.0
E. LINK E	* ***** * AG	2290	4.4	0.0 15.0
F. LINK F	* ***** * AG	930	5.4	0.0 15.0
G. LINK G	* ***** * AG	1740	4.4	0.0 15.0
H. LINK H	* ***** * AG	2240	5.4	0.0 15.0
I. LINK I	* ***** * AG	1680	4.4	0.0 15.0
J. LINK J	* ***** * AG	1680	4.4	0.0 15.0

III. RECEPTOR LOCATIONS

RECEPTOR	* COORDINATES (M)	X	Y	Z
1. RECPT 1	* 474965 *****			1.8
2. RECPT 2	* 474956 *****			1.8
3. RECPT 3	* 474909 *****			1.8
4. RECPT 4	* 474922 *****			1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: C:\Lakes\CALRoads View\7722_11_ElCaminoR
RUN: CALINE4 RUN (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

```
      *      * PRED *          CONC/LINK
      * BRG * CONC *          (PPM)
RECEPTOR * (DEG) * (PPM) * A B C D E F G H
-----*-----*-----*-----*-----*-----*-----*-----*-----*
1. RECPT 1 * 274. * 6.6 * 1.0 0.1 0.0 0.5 0.0 0.0 0.3 0.0
2. RECPT 2 * 251. * 6.4 * 0.5 0.0 0.0 0.0 0.5 0.0 0.6 0.4
3. RECPT 3 * 146. * 6.1 * 0.3 0.0 0.3 0.2 0.0 0.0 0.4 0.0
4. RECPT 4 * 1. * 6.5 * 0.5 0.0 0.0 0.0 0.4 0.0 0.2 0.9
```

```
      * CONC/LINK
RECEPTOR * I J
-----*-----
1. RECPT 1 * 0.2 0.0
2. RECPT 2 * 0.0 0.0
3. RECPT 3 * 0.5 0.0
4. RECPT 4 * 0.0 0.0
```

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EXIT

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: C:\Lakes\CALRoads View\7722_21_ElCaminoR
 RUN: CALINE4 RUN (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 0.5 M/S Z0= 100. CM ALT= 0. (M)
 BRG= WORST CASE VD= 0.0 CM/S
 CLAS= 7 (G) VS= 0.0 CM/S
 MIXH= 1000. M AMB= 4.4 PPM
 SIGTH= 5. DEGREES TEMP= 12.2 DEGREE (C)

II. LINK VARIABLES

LINK	* LINK COORDINATES (M) *	EF	H	W
DESCRIPTION	* X1 Y1 X2 Y2 * TYPE	VPH	(G/MI)	(M) (M)
A. LINK A	* ***** * AG	1740	5.4	0.0 18.0
B. LINK B	* ***** * AG	1740	5.4	0.0 18.0
C. LINK C	* ***** * AG	2250	4.4	0.0 18.0
D. LINK D	* ***** * AG	2250	4.4	0.0 18.0
E. LINK E	* ***** * AG	1930	5.4	0.0 18.0
F. LINK F	* ***** * AG	1930	5.4	0.0 18.0
G. LINK G	* ***** * AG	1400	4.4	0.0 18.0
H. LINK H	* ***** * AG	1400	4.4	0.0 18.0
I. LINK I	* ***** * AG	2820	5.4	0.0 18.0
J. LINK J	* ***** * AG	2120	4.4	0.0 18.0
K. LINK K	* ***** * AG	1160	5.4	0.0 18.0
L. LINK L	* ***** * AG	1880	4.4	0.0 18.0

III. RECEPTOR LOCATIONS

* COORDINATES (M)
 RECEPTOR * X Y Z
 -----*-----
 1. RECPT 1 * 475543 ***** 1.8
 2. RECPT 2 * 475544 ***** 1.8
 3. RECPT 3 * 475492 ***** 1.8
 4. RECPT 4 * 475491 ***** 1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: C:\Lakes\CALRoads View\7722_21_ElCaminoR
RUN: CALINE4 RUN (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

	* PRED *	CONC/LINK									
	* BRG * CONC *	(PPM)									
RECEPTOR	*(DEG)*	*(PPM)*	A	B	C	D	E	F	G	H	
1. RECPT 1	* 288. *	6.4 *	0.0	0.6	0.2	0.0	0.0	0.0	0.1	0.2	
2. RECPT 2	* 196. *	6.4 *	0.0	0.0	0.3	0.0	0.0	0.5	0.0	0.0	
3. RECPT 3	* 108. *	6.2 *	0.0	0.0	0.1	0.3	0.1	0.7	0.1	0.0	
4. RECPT 4	* 72. *	6.1 *	0.0	0.1	0.5	0.0	0.1	0.3	0.0	0.0	

	* CONC/LINK			
RECEPTOR	* I	J	K	L
1. RECPT 1	* 0.7	0.0	0.0	0.2
2. RECPT 2	* 1.0	0.0	0.0	0.3
3. RECPT 3	* 0.0	0.3	0.3	0.0
4. RECPT 4	* 0.4	0.0	0.0	0.4

1
EXIT

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: C:\Lakes\CALRoads View\7722_36_ElCaminoR
 RUN: CALINE4 RUN (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 0.5 M/S Z0= 100. CM ALT= 0. (M)
 BRG= WORST CASE VD= 0.0 CM/S
 CLAS= 7 (G) VS= 0.0 CM/S
 MIXH= 1000. M AMB= 4.4 PPM
 SIGTH= 5. DEGREES TEMP= 12.2 DEGREE (C)

II. LINK VARIABLES

LINK	* LINK COORDINATES (M) *	EF	H	W
DESCRIPTION	* X1 Y1 X2 Y2 * TYPE	VPH	(G/MI)	(M) (M)
A. LINK A	* ***** * AG	1170	5.4	0.0 12.0
B. LINK B	* ***** * AG	1540	4.4	0.0 12.0
C. LINK C	* ***** * AG	1260	5.4	0.0 12.0
D. LINK D	* ***** * AG	1320	4.4	0.0 12.0
E. LINK E	* ***** * AG	1580	5.4	0.0 17.0
F. LINK F	* ***** * AG	1790	4.4	0.0 17.0
G. LINK G	* ***** * AG	2310	5.4	0.0 17.0
H. LINK H	* ***** * AG	1670	4.4	0.0 17.0

III. RECEPTOR LOCATIONS

RECEPTOR	* COORDINATES (M)	X	Y	Z
1. RECPT 1	* 475782 *****	1.8		
2. RECPT 2	* 475784 *****	1.8		
3. RECPT 3	* 475736 *****	1.8		
4. RECPT 4	* 475741 *****	1.8		

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: C:\Lakes\CALRoads View\7722_36_ElCaminoR
RUN: CALINE4 RUN (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

	* PRED *		CONC/LINK								
	* BRG *	* CONC *	(PPM)								
RECEPTOR	* (DEG) *	* (PPM) *	A	B	C	D	E	F	G	H	
1. RECPT	1 *	345. *	6.4 *	0.0	0.4	0.2	0.0	0.2	0.6	0.5	0.0
2. RECPT	2 *	260. *	6.0 *	0.3	0.0	0.0	0.5	0.0	0.4	0.4	0.0
3. RECPT	3 *	107. *	6.0 *	0.0	0.3	0.5	0.0	0.0	0.2	0.6	0.0
4. RECPT	4 *	12. *	6.4 *	0.3	0.0	0.0	0.2	0.0	0.3	1.1	0.1

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EXIT