

**Butterfield-Keenan GPA**  
**Santa Clara County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	410.00	Dwelling Unit	19.50	410,000.00	1173

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	4			<b>Operational Year</b>	2017
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Lot Acreage provided in project description

Vehicle Trips - Daily trip rate provided by Hexagon Traffic Impact Analysis

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblLandUse	LotAcreage	25.63	19.50
tblProjectCharacteristics	OperationalYear	2014	2017
tblVehicleTrips	ST_TR	7.16	6.65
tblVehicleTrips	SU_TR	6.07	6.65
tblVehicleTrips	WD_TR	6.59	6.65

## 2.0 Emissions Summary

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**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.3036	0.0413	3.5299	5.5000e-004		0.0829	0.0829		0.0829	0.0829	6.7107	15.8138	22.5245	0.0175	5.6000e-004	23.0644
Energy	0.0238	0.2037	0.0867	1.3000e-003		0.0165	0.0165		0.0165	0.0165	0.0000	675.0207	675.0207	0.0244	8.4300e-003	678.1468
Mobile	1.5362	3.2688	15.0118	0.0313	2.2589	0.0419	2.3009	0.6039	0.0386	0.6425	0.0000	2,397.664 3	2,397.664 3	0.0990	0.0000	2,399.742 1
Waste						0.0000	0.0000		0.0000	0.0000	38.2841	0.0000	38.2841	2.2625	0.0000	85.7971
Water						0.0000	0.0000		0.0000	0.0000	8.4749	59.1970	67.6718	0.8731	0.0211	92.5506
<b>Total</b>	<b>3.8636</b>	<b>3.5138</b>	<b>18.6284</b>	<b>0.0332</b>	<b>2.2589</b>	<b>0.1413</b>	<b>2.4002</b>	<b>0.6039</b>	<b>0.1380</b>	<b>0.7419</b>	<b>53.4696</b>	<b>3,147.695 8</b>	<b>3,201.165 4</b>	<b>3.2764</b>	<b>0.0301</b>	<b>3,279.301 1</b>

## 2.2 Overall Operational

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.3036	0.0413	3.5299	5.5000e-004		0.0829	0.0829		0.0829	0.0829	6.7107	15.8138	22.5245	0.0175	5.6000e-004	23.0644
Energy	0.0238	0.2037	0.0867	1.3000e-003		0.0165	0.0165		0.0165	0.0165	0.0000	675.0207	675.0207	0.0244	8.4300e-003	678.1468
Mobile	1.5362	3.2688	15.0118	0.0313	2.2589	0.0419	2.3009	0.6039	0.0386	0.6425	0.0000	2,397.6643	2,397.6643	0.0990	0.0000	2,399.7421
Waste						0.0000	0.0000		0.0000	0.0000	38.2841	0.0000	38.2841	2.2625	0.0000	85.7971
Water						0.0000	0.0000		0.0000	0.0000	8.4749	59.1970	67.6718	0.8730	0.0211	92.5371
<b>Total</b>	<b>3.8636</b>	<b>3.5138</b>	<b>18.6284</b>	<b>0.0332</b>	<b>2.2589</b>	<b>0.1413</b>	<b>2.4002</b>	<b>0.6039</b>	<b>0.1380</b>	<b>0.7419</b>	<b>53.4696</b>	<b>3,147.6958</b>	<b>3,201.1654</b>	<b>3.2763</b>	<b>0.0301</b>	<b>3,279.2876</b>

	ROG	NOx	CO	SO2	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	0.13	0.00

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/28/2015	5	20	
2	Site Preparation	Site Preparation	1/29/2015	2/11/2015	5	10	
3	Grading	Grading	2/12/2015	3/25/2015	5	30	
4	Building Construction	Building Construction	3/26/2015	5/18/2016	5	300	
5	Paving	Paving	5/19/2016	6/15/2016	5	20	
6	Architectural Coating	Architectural Coating	6/16/2016	7/13/2016	5	20	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 75**

**Acres of Paving: 0**

**Residential Indoor: 830,250; Residential Outdoor: 276,750; 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
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	162	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	162	0.38
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
Paving	Pavers	2	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	130	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
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
Demolition	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	295.00	44.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	59.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 3.2 Demolition - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0451	0.4836	0.3607	4.0000e-004		0.0245	0.0245		0.0229	0.0229	0.0000	37.4413	37.4413	0.0102	0.0000	37.6544
<b>Total</b>	<b>0.0451</b>	<b>0.4836</b>	<b>0.3607</b>	<b>4.0000e-004</b>		<b>0.0245</b>	<b>0.0245</b>		<b>0.0229</b>	<b>0.0229</b>	<b>0.0000</b>	<b>37.4413</b>	<b>37.4413</b>	<b>0.0102</b>	<b>0.0000</b>	<b>37.6544</b>



### 3.2 Demolition - 2015

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	8.8000e-004	8.5300e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.2465	1.2465	7.0000e-005	0.0000	1.2479
<b>Total</b>	<b>6.2000e-004</b>	<b>8.8000e-004</b>	<b>8.5300e-003</b>	<b>2.0000e-005</b>	<b>1.3700e-003</b>	<b>1.0000e-005</b>	<b>1.3800e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.2465</b>	<b>1.2465</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.2479</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0451	0.4836	0.3607	4.0000e-004		0.0245	0.0245		0.0229	0.0229	0.0000	37.4412	37.4412	0.0102	0.0000	37.6544
<b>Total</b>	<b>0.0451</b>	<b>0.4836</b>	<b>0.3607</b>	<b>4.0000e-004</b>		<b>0.0245</b>	<b>0.0245</b>		<b>0.0229</b>	<b>0.0229</b>	<b>0.0000</b>	<b>37.4412</b>	<b>37.4412</b>	<b>0.0102</b>	<b>0.0000</b>	<b>37.6544</b>

### 3.2 Demolition - 2015

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	8.8000e-004	8.5300e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.2465	1.2465	7.0000e-005	0.0000	1.2479
<b>Total</b>	<b>6.2000e-004</b>	<b>8.8000e-004</b>	<b>8.5300e-003</b>	<b>2.0000e-005</b>	<b>1.3700e-003</b>	<b>1.0000e-005</b>	<b>1.3800e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.2465</b>	<b>1.2465</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.2479</b>

### 3.3 Site Preparation - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0263	0.2845	0.2132	2.0000e-004		0.0154	0.0154		0.0142	0.0142	0.0000	18.6506	18.6506	5.5700e-003	0.0000	18.7675
<b>Total</b>	<b>0.0263</b>	<b>0.2845</b>	<b>0.2132</b>	<b>2.0000e-004</b>	<b>0.0903</b>	<b>0.0154</b>	<b>0.1058</b>	<b>0.0497</b>	<b>0.0142</b>	<b>0.0639</b>	<b>0.0000</b>	<b>18.6506</b>	<b>18.6506</b>	<b>5.5700e-003</b>	<b>0.0000</b>	<b>18.7675</b>

### 3.3 Site Preparation - 2015

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-004	5.3000e-004	5.1200e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7479	0.7479	4.0000e-005	0.0000	0.7488
<b>Total</b>	<b>3.7000e-004</b>	<b>5.3000e-004</b>	<b>5.1200e-003</b>	<b>1.0000e-005</b>	<b>8.2000e-004</b>	<b>1.0000e-005</b>	<b>8.3000e-004</b>	<b>2.2000e-004</b>	<b>1.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.7479</b>	<b>0.7479</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.7488</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0263	0.2845	0.2132	2.0000e-004		0.0154	0.0154		0.0142	0.0142	0.0000	18.6505	18.6505	5.5700e-003	0.0000	18.7675
<b>Total</b>	<b>0.0263</b>	<b>0.2845</b>	<b>0.2132</b>	<b>2.0000e-004</b>	<b>0.0903</b>	<b>0.0154</b>	<b>0.1058</b>	<b>0.0497</b>	<b>0.0142</b>	<b>0.0639</b>	<b>0.0000</b>	<b>18.6505</b>	<b>18.6505</b>	<b>5.5700e-003</b>	<b>0.0000</b>	<b>18.7675</b>

### 3.3 Site Preparation - 2015

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-004	5.3000e-004	5.1200e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7479	0.7479	4.0000e-005	0.0000	0.7488
<b>Total</b>	<b>3.7000e-004</b>	<b>5.3000e-004</b>	<b>5.1200e-003</b>	<b>1.0000e-005</b>	<b>8.2000e-004</b>	<b>1.0000e-005</b>	<b>8.3000e-004</b>	<b>2.2000e-004</b>	<b>1.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.7479</b>	<b>0.7479</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.7488</b>

### 3.4 Grading - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1016	1.1857	0.7626	9.3000e-004		0.0570	0.0570		0.0525	0.0525	0.0000	88.2633	88.2633	0.0264	0.0000	88.8167
<b>Total</b>	<b>0.1016</b>	<b>1.1857</b>	<b>0.7626</b>	<b>9.3000e-004</b>	<b>0.1301</b>	<b>0.0570</b>	<b>0.1871</b>	<b>0.0540</b>	<b>0.0525</b>	<b>0.1064</b>	<b>0.0000</b>	<b>88.2633</b>	<b>88.2633</b>	<b>0.0264</b>	<b>0.0000</b>	<b>88.8167</b>

### 3.4 Grading - 2015

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2400e-003	1.7500e-003	0.0171	3.0000e-005	2.7300e-003	2.0000e-005	2.7500e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.4929	2.4929	1.4000e-004	0.0000	2.4959
<b>Total</b>	<b>1.2400e-003</b>	<b>1.7500e-003</b>	<b>0.0171</b>	<b>3.0000e-005</b>	<b>2.7300e-003</b>	<b>2.0000e-005</b>	<b>2.7500e-003</b>	<b>7.3000e-004</b>	<b>2.0000e-005</b>	<b>7.5000e-004</b>	<b>0.0000</b>	<b>2.4929</b>	<b>2.4929</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>2.4959</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1016	1.1857	0.7626	9.3000e-004		0.0570	0.0570		0.0525	0.0525	0.0000	88.2632	88.2632	0.0264	0.0000	88.8166
<b>Total</b>	<b>0.1016</b>	<b>1.1857</b>	<b>0.7626</b>	<b>9.3000e-004</b>	<b>0.1301</b>	<b>0.0570</b>	<b>0.1871</b>	<b>0.0540</b>	<b>0.0525</b>	<b>0.1064</b>	<b>0.0000</b>	<b>88.2632</b>	<b>88.2632</b>	<b>0.0264</b>	<b>0.0000</b>	<b>88.8166</b>

### 3.4 Grading - 2015

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2400e-003	1.7500e-003	0.0171	3.0000e-005	2.7300e-003	2.0000e-005	2.7500e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.4929	2.4929	1.4000e-004	0.0000	2.4959
<b>Total</b>	<b>1.2400e-003</b>	<b>1.7500e-003</b>	<b>0.0171</b>	<b>3.0000e-005</b>	<b>2.7300e-003</b>	<b>2.0000e-005</b>	<b>2.7500e-003</b>	<b>7.3000e-004</b>	<b>2.0000e-005</b>	<b>7.5000e-004</b>	<b>0.0000</b>	<b>2.4929</b>	<b>2.4929</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>2.4959</b>

### 3.5 Building Construction - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3677	3.0180	1.8838	2.7000e-003		0.2127	0.2127		0.2000	0.2000	0.0000	245.2143	245.2143	0.0615	0.0000	246.5063
<b>Total</b>	<b>0.3677</b>	<b>3.0180</b>	<b>1.8838</b>	<b>2.7000e-003</b>		<b>0.2127</b>	<b>0.2127</b>		<b>0.2000</b>	<b>0.2000</b>	<b>0.0000</b>	<b>245.2143</b>	<b>245.2143</b>	<b>0.0615</b>	<b>0.0000</b>	<b>246.5063</b>

### 3.5 Building Construction - 2015

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0585	0.5078	0.6358	1.0500e-003	0.0286	8.2700e-003	0.0368	8.1900e-003	7.6000e-003	0.0158	0.0000	96.7406	96.7406	8.7000e-004	0.0000	96.7589
Worker	0.1229	0.1733	1.6853	3.1300e-003	0.2699	2.2800e-003	0.2722	0.0718	2.0900e-003	0.0739	0.0000	246.3616	246.3616	0.0140	0.0000	246.6548
<b>Total</b>	<b>0.1814</b>	<b>0.6811</b>	<b>2.3211</b>	<b>4.1800e-003</b>	<b>0.2985</b>	<b>0.0106</b>	<b>0.3090</b>	<b>0.0800</b>	<b>9.6900e-003</b>	<b>0.0897</b>	<b>0.0000</b>	<b>343.1023</b>	<b>343.1023</b>	<b>0.0148</b>	<b>0.0000</b>	<b>343.4137</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3677	3.0180	1.8838	2.7000e-003		0.2127	0.2127		0.2000	0.2000	0.0000	245.2140	245.2140	0.0615	0.0000	246.5060
<b>Total</b>	<b>0.3677</b>	<b>3.0180</b>	<b>1.8838</b>	<b>2.7000e-003</b>		<b>0.2127</b>	<b>0.2127</b>		<b>0.2000</b>	<b>0.2000</b>	<b>0.0000</b>	<b>245.2140</b>	<b>245.2140</b>	<b>0.0615</b>	<b>0.0000</b>	<b>246.5060</b>

### 3.5 Building Construction - 2015

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0585	0.5078	0.6358	1.0500e-003	0.0286	8.2700e-003	0.0368	8.1900e-003	7.6000e-003	0.0158	0.0000	96.7406	96.7406	8.7000e-004	0.0000	96.7589
Worker	0.1229	0.1733	1.6853	3.1300e-003	0.2699	2.2800e-003	0.2722	0.0718	2.0900e-003	0.0739	0.0000	246.3616	246.3616	0.0140	0.0000	246.6548
<b>Total</b>	<b>0.1814</b>	<b>0.6811</b>	<b>2.3211</b>	<b>4.1800e-003</b>	<b>0.2985</b>	<b>0.0106</b>	<b>0.3090</b>	<b>0.0800</b>	<b>9.6900e-003</b>	<b>0.0897</b>	<b>0.0000</b>	<b>343.1023</b>	<b>343.1023</b>	<b>0.0148</b>	<b>0.0000</b>	<b>343.4137</b>

### 3.5 Building Construction - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1686	1.4111	0.9161	1.3300e-003		0.0974	0.0974		0.0915	0.0915	0.0000	119.8660	119.8660	0.0297	0.0000	120.4903
<b>Total</b>	<b>0.1686</b>	<b>1.4111</b>	<b>0.9161</b>	<b>1.3300e-003</b>		<b>0.0974</b>	<b>0.0974</b>		<b>0.0915</b>	<b>0.0915</b>	<b>0.0000</b>	<b>119.8660</b>	<b>119.8660</b>	<b>0.0297</b>	<b>0.0000</b>	<b>120.4903</b>



### 3.5 Building Construction - 2016

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0259	0.2175	0.2945	5.2000e-004	0.0141	3.2600e-003	0.0173	4.0300e-003	3.0000e-003	7.0300e-003	0.0000	47.1005	47.1005	3.8000e-004	0.0000	47.1084
Worker	0.0544	0.0764	0.7424	1.5400e-003	0.1330	1.0600e-003	0.1340	0.0354	9.7000e-004	0.0363	0.0000	117.1463	117.1463	6.2600e-003	0.0000	117.2778
<b>Total</b>	<b>0.0802</b>	<b>0.2939</b>	<b>1.0369</b>	<b>2.0600e-003</b>	<b>0.1470</b>	<b>4.3200e-003</b>	<b>0.1513</b>	<b>0.0394</b>	<b>3.9700e-003</b>	<b>0.0434</b>	<b>0.0000</b>	<b>164.2468</b>	<b>164.2468</b>	<b>6.6400e-003</b>	<b>0.0000</b>	<b>164.3862</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1686	1.4111	0.9161	1.3300e-003		0.0974	0.0974		0.0915	0.0915	0.0000	119.8659	119.8659	0.0297	0.0000	120.4902
<b>Total</b>	<b>0.1686</b>	<b>1.4111</b>	<b>0.9161</b>	<b>1.3300e-003</b>		<b>0.0974</b>	<b>0.0974</b>		<b>0.0915</b>	<b>0.0915</b>	<b>0.0000</b>	<b>119.8659</b>	<b>119.8659</b>	<b>0.0297</b>	<b>0.0000</b>	<b>120.4902</b>

**3.5 Building Construction - 2016****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0259	0.2175	0.2945	5.2000e-004	0.0141	3.2600e-003	0.0173	4.0300e-003	3.0000e-003	7.0300e-003	0.0000	47.1005	47.1005	3.8000e-004	0.0000	47.1084
Worker	0.0544	0.0764	0.7424	1.5400e-003	0.1330	1.0600e-003	0.1340	0.0354	9.7000e-004	0.0363	0.0000	117.1463	117.1463	6.2600e-003	0.0000	117.2778
<b>Total</b>	<b>0.0802</b>	<b>0.2939</b>	<b>1.0369</b>	<b>2.0600e-003</b>	<b>0.1470</b>	<b>4.3200e-003</b>	<b>0.1513</b>	<b>0.0394</b>	<b>3.9700e-003</b>	<b>0.0434</b>	<b>0.0000</b>	<b>164.2468</b>	<b>164.2468</b>	<b>6.6400e-003</b>	<b>0.0000</b>	<b>164.3862</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0209	0.2239	0.1482	2.2000e-004		0.0126	0.0126		0.0116	0.0116	0.0000	21.0138	21.0138	6.3400e-003	0.0000	21.1469
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0209</b>	<b>0.2239</b>	<b>0.1482</b>	<b>2.2000e-004</b>		<b>0.0126</b>	<b>0.0126</b>		<b>0.0116</b>	<b>0.0116</b>	<b>0.0000</b>	<b>21.0138</b>	<b>21.0138</b>	<b>6.3400e-003</b>	<b>0.0000</b>	<b>21.1469</b>

### 3.6 Paving - 2016

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6000e-004	7.8000e-004	7.6300e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.2034	1.2034	6.0000e-005	0.0000	1.2047
<b>Total</b>	<b>5.6000e-004</b>	<b>7.8000e-004</b>	<b>7.6300e-003</b>	<b>2.0000e-005</b>	<b>1.3700e-003</b>	<b>1.0000e-005</b>	<b>1.3800e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.2034</b>	<b>1.2034</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.2047</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0209	0.2239	0.1482	2.2000e-004		0.0126	0.0126		0.0116	0.0116	0.0000	21.0138	21.0138	6.3400e-003	0.0000	21.1469
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0209</b>	<b>0.2239</b>	<b>0.1482</b>	<b>2.2000e-004</b>		<b>0.0126</b>	<b>0.0126</b>		<b>0.0116</b>	<b>0.0116</b>	<b>0.0000</b>	<b>21.0138</b>	<b>21.0138</b>	<b>6.3400e-003</b>	<b>0.0000</b>	<b>21.1469</b>

### 3.6 Paving - 2016

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6000e-004	7.8000e-004	7.6300e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.2034	1.2034	6.0000e-005	0.0000	1.2047
<b>Total</b>	<b>5.6000e-004</b>	<b>7.8000e-004</b>	<b>7.6300e-003</b>	<b>2.0000e-005</b>	<b>1.3700e-003</b>	<b>1.0000e-005</b>	<b>1.3800e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.2034</b>	<b>1.2034</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.2047</b>

### 3.7 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	tons/yr										MT/yr					
Archit. Coating	6.4137					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6800e-003	0.0237	0.0188	3.0000e-005		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	2.5533	2.5533	3.0000e-004	0.0000	2.5596
<b>Total</b>	<b>6.4174</b>	<b>0.0237</b>	<b>0.0188</b>	<b>3.0000e-005</b>		<b>1.9700e-003</b>	<b>1.9700e-003</b>		<b>1.9700e-003</b>	<b>1.9700e-003</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>2.5596</b>

### 3.7 Architectural Coating - 2016

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-003	3.0900e-003	0.0300	6.0000e-005	5.3700e-003	4.0000e-005	5.4100e-003	1.4300e-003	4.0000e-005	1.4700e-003	0.0000	4.7332	4.7332	2.5000e-004	0.0000	4.7385	
<b>Total</b>	<b>2.2000e-003</b>	<b>3.0900e-003</b>	<b>0.0300</b>	<b>6.0000e-005</b>	<b>5.3700e-003</b>	<b>4.0000e-005</b>	<b>5.4100e-003</b>	<b>1.4300e-003</b>	<b>4.0000e-005</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>4.7332</b>	<b>4.7332</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>4.7385</b>	

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.4137					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6800e-003	0.0237	0.0188	3.0000e-005		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	2.5533	2.5533	3.0000e-004	0.0000	2.5596
<b>Total</b>	<b>6.4174</b>	<b>0.0237</b>	<b>0.0188</b>	<b>3.0000e-005</b>		<b>1.9700e-003</b>	<b>1.9700e-003</b>		<b>1.9700e-003</b>	<b>1.9700e-003</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>2.5596</b>

### 3.7 Architectural Coating - 2016

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-003	3.0900e-003	0.0300	6.0000e-005	5.3700e-003	4.0000e-005	5.4100e-003	1.4300e-003	4.0000e-005	1.4700e-003	0.0000	4.7332	4.7332	2.5000e-004	0.0000	4.7385
<b>Total</b>	<b>2.2000e-003</b>	<b>3.0900e-003</b>	<b>0.0300</b>	<b>6.0000e-005</b>	<b>5.3700e-003</b>	<b>4.0000e-005</b>	<b>5.4100e-003</b>	<b>1.4300e-003</b>	<b>4.0000e-005</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>4.7332</b>	<b>4.7332</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>4.7385</b>

### 4.0 Operational Detail - Mobile

#### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.5362	3.2688	15.0118	0.0313	2.2589	0.0419	2.3009	0.6039	0.0386	0.6425	0.0000	2,397.6643	2,397.6643	0.0990	0.0000	2,399.7421
Unmitigated	1.5362	3.2688	15.0118	0.0313	2.2589	0.0419	2.3009	0.6039	0.0386	0.6425	0.0000	2,397.6643	2,397.6643	0.0990	0.0000	2,399.7421

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	2,726.50	2,726.50	2726.50	6,086,546	6,086,546
Total	2,726.50	2,726.50	2,726.50	6,086,546	6,086,546

### 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 Low Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.551854	0.058218	0.185395	0.123453	0.029544	0.004438	0.012761	0.022956	0.001780	0.001269	0.006045	0.000523	0.001763

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	439.1312	439.1312	0.0199	4.1100e-003	440.8217
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	439.1312	439.1312	0.0199	4.1100e-003	440.8217
NaturalGas Mitigated	0.0238	0.2037	0.0867	1.3000e-003		0.0165	0.0165		0.0165	0.0165	0.0000	235.8895	235.8895	4.5200e-003	4.3200e-003	237.3251
NaturalGas Unmitigated	0.0238	0.2037	0.0867	1.3000e-003		0.0165	0.0165		0.0165	0.0165	0.0000	235.8895	235.8895	4.5200e-003	4.3200e-003	237.3251

**5.2 Energy by Land Use - NaturalGas**  
Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	4.4204e+006	0.0238	0.2037	0.0867	1.3000e-003		0.0165	0.0165		0.0165	0.0165	0.0000	235.8895	235.8895	4.5200e-003	4.3200e-003	237.3251
<b>Total</b>		<b>0.0238</b>	<b>0.2037</b>	<b>0.0867</b>	<b>1.3000e-003</b>		<b>0.0165</b>	<b>0.0165</b>		<b>0.0165</b>	<b>0.0165</b>	<b>0.0000</b>	<b>235.8895</b>	<b>235.8895</b>	<b>4.5200e-003</b>	<b>4.3200e-003</b>	<b>237.3251</b>



### 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	tons/yr										MT/yr					
Apartments Low Rise	4.4204e+006	0.0238	0.2037	0.0867	1.3000e-003		0.0165	0.0165		0.0165	0.0165	0.0000	235.8895	235.8895	4.5200e-003	4.3200e-003	237.3251
<b>Total</b>		<b>0.0238</b>	<b>0.2037</b>	<b>0.0867</b>	<b>1.3000e-003</b>		<b>0.0165</b>	<b>0.0165</b>		<b>0.0165</b>	<b>0.0165</b>	<b>0.0000</b>	<b>235.8895</b>	<b>235.8895</b>	<b>4.5200e-003</b>	<b>4.3200e-003</b>	<b>237.3251</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.5095e+006	439.1312	0.0199	4.1100e-003	440.8217
<b>Total</b>		<b>439.1312</b>	<b>0.0199</b>	<b>4.1100e-003</b>	<b>440.8217</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.5095e+006	439.1312	0.0199	4.1100e-003	440.8217
<b>Total</b>		<b>439.1312</b>	<b>0.0199</b>	<b>4.1100e-003</b>	<b>440.8217</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.3036	0.0413	3.5299	5.5000e-004		0.0829	0.0829		0.0829	0.0829	6.7107	15.8138	22.5245	0.0175	5.6000e-004	23.0644
Unmitigated	2.3036	0.0413	3.5299	5.5000e-004		0.0829	0.0829		0.0829	0.0829	6.7107	15.8138	22.5245	0.0175	5.6000e-004	23.0644

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2886					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6013					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.3180	5.4000e-003	0.4550	3.9000e-004		0.0662	0.0662		0.0662	0.0662	6.7107	10.8410	17.5517	0.0125	5.6000e-004	17.9868
Landscaping	0.0957	0.0358	3.0750	1.6000e-004		0.0167	0.0167		0.0167	0.0167	0.0000	4.9728	4.9728	4.9900e-003	0.0000	5.0776
<b>Total</b>	<b>2.3036</b>	<b>0.0412</b>	<b>3.5299</b>	<b>5.5000e-004</b>		<b>0.0829</b>	<b>0.0829</b>		<b>0.0829</b>	<b>0.0829</b>	<b>6.7107</b>	<b>15.8138</b>	<b>22.5245</b>	<b>0.0175</b>	<b>5.6000e-004</b>	<b>23.0644</b>

## 6.2 Area by SubCategory

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2886					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6013					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.3180	5.4000e-003	0.4550	3.9000e-004		0.0662	0.0662		0.0662	0.0662	6.7107	10.8410	17.5517	0.0125	5.6000e-004	17.9868
Landscaping	0.0957	0.0358	3.0750	1.6000e-004		0.0167	0.0167		0.0167	0.0167	0.0000	4.9728	4.9728	4.9900e-003	0.0000	5.0776
<b>Total</b>	<b>2.3036</b>	<b>0.0412</b>	<b>3.5299</b>	<b>5.5000e-004</b>		<b>0.0829</b>	<b>0.0829</b>		<b>0.0829</b>	<b>0.0829</b>	<b>6.7107</b>	<b>15.8138</b>	<b>22.5245</b>	<b>0.0175</b>	<b>5.6000e-004</b>	<b>23.0644</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	67.6718	0.8730	0.0211	92.5371
Unmitigated	67.6718	0.8731	0.0211	92.5506

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	26.7132 / 16.8409	67.6718	0.8731	0.0211	92.5506
<b>Total</b>		<b>67.6718</b>	<b>0.8731</b>	<b>0.0211</b>	<b>92.5506</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	26.7132 / 16.8409	67.6718	0.8730	0.0211	92.5371
<b>Total</b>		<b>67.6718</b>	<b>0.8730</b>	<b>0.0211</b>	<b>92.5371</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	38.2841	2.2625	0.0000	85.7971
Unmitigated	38.2841	2.2625	0.0000	85.7971

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	188.6	38.2841	2.2625	0.0000	85.7971
<b>Total</b>		<b>38.2841</b>	<b>2.2625</b>	<b>0.0000</b>	<b>85.7971</b>

## 8.2 Waste by Land Use

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	188.6	38.2841	2.2625	0.0000	85.7971
<b>Total</b>		<b>38.2841</b>	<b>2.2625</b>	<b>0.0000</b>	<b>85.7971</b>

## 9.0 Operational Offroad

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

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