



# **Appendix B**

*Air Quality and Greenhouse Gas Emissions  
Calculations*

**Malibu Housing Element  
Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric
Apartments Low Rise	91	Dwelling Unit
Apartments Low Rise	64	Dwelling Unit
Apartments Low Rise	57	Dwelling Unit

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Utility Company</b>	Southern California Edison
<b>Climate Zone</b>	8	<b>Precipitation Freq (Days)</b>	33		

**1.3 User Entered Comments**

- Project Characteristics -
- Land Use - Actual lot size entered.
- Construction Phase - Paving and coating revised to reflect more realistic time frame. No demo would occur.
- Off-road Equipment -
- Off-road Equipment - No demo is required.

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - Trip generation modified to reflect traffic study.

Woodstoves - High density affordable housing assumed to have no hearths.

Water And Wastewater - Sites would be solely served by septic.

Construction Off-road Equipment Mitigation -

Area Mitigation - High density affordable housing assumed to have no hearths.

## **2.0 Emissions Summary**

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## 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					
2013	10.02	80.11	46.75	0.08	18.34	3.94	22.29	9.94	3.94	13.88	0.00	8,228.96	0.00	0.90	0.00	8,247.94
2014	40.09	36.53	36.48	0.07	2.56	2.74	4.80	0.10	2.74	2.75	0.00	6,612.46	0.00	0.55	0.00	6,624.03
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

### 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					
2013	10.02	80.11	46.75	0.08	18.08	3.94	22.02	9.94	3.94	13.88	0.00	8,228.96	0.00	0.90	0.00	8,247.94
2014	40.09	36.53	36.48	0.07	0.10	2.74	2.75	0.10	2.74	2.75	0.00	6,612.46	0.00	0.55	0.00	6,624.03
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

## 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	5.23	0.21	18.03	0.00		0.00	0.10		0.00	0.10	0.00	31.88		0.03	0.00	32.57
Energy	0.12	1.01	0.43	0.01		0.00	0.08		0.00	0.08		1,286.46		0.02	0.02	1,294.29
Mobile	7.89	19.43	78.38	0.15	15.54	0.91	16.45	0.54	0.91	1.45		14,571.09		0.53		14,582.22
<b>Total</b>	<b>13.24</b>	<b>20.65</b>	<b>96.84</b>	<b>0.16</b>	<b>15.54</b>	<b>0.91</b>	<b>16.63</b>	<b>0.54</b>	<b>0.91</b>	<b>1.63</b>	<b>0.00</b>	<b>15,889.43</b>		<b>0.58</b>	<b>0.02</b>	<b>15,909.08</b>

### 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	5.23	0.21	18.03	0.00		0.00	0.10		0.00	0.10	0.00	31.88		0.03	0.00	32.57
Energy	0.12	1.01	0.43	0.01		0.00	0.08		0.00	0.08		1,286.46		0.02	0.02	1,294.29
Mobile	7.89	19.43	78.38	0.15	15.54	0.91	16.45	0.54	0.91	1.45		14,571.09		0.53		14,582.22
<b>Total</b>	<b>13.24</b>	<b>20.65</b>	<b>96.84</b>	<b>0.16</b>	<b>15.54</b>	<b>0.91</b>	<b>16.63</b>	<b>0.54</b>	<b>0.91</b>	<b>1.63</b>	<b>0.00</b>	<b>15,889.43</b>		<b>0.58</b>	<b>0.02</b>	<b>15,909.08</b>

## 3.0 Construction Detail

### 3.1 Mitigation Measures Construction

### 3.2 Demolition - 2013

#### 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	8.86	70.71	42.55	0.07		3.50	3.50		3.50	3.50		7,510.81		0.80		7,527.57
<b>Total</b>	<b>8.86</b>	<b>70.71</b>	<b>42.55</b>	<b>0.07</b>		<b>3.50</b>	<b>3.50</b>		<b>3.50</b>	<b>3.50</b>		<b>7,510.81</b>		<b>0.80</b>		<b>7,527.57</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.10	0.10	1.17	0.00	0.23	0.01	0.24	0.01	0.01	0.02		192.73		0.01		192.97
<b>Total</b>	<b>0.10</b>	<b>0.10</b>	<b>1.17</b>	<b>0.00</b>	<b>0.23</b>	<b>0.01</b>	<b>0.24</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>		<b>192.73</b>		<b>0.01</b>		<b>192.97</b>

### 3.2 Demolition - 2013

#### 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	8.86	70.71	42.55	0.07		3.50	3.50		3.50	3.50	0.00	7,510.81		0.80		7,527.57
<b>Total</b>	<b>8.86</b>	<b>70.71</b>	<b>42.55</b>	<b>0.07</b>		<b>3.50</b>	<b>3.50</b>		<b>3.50</b>	<b>3.50</b>	<b>0.00</b>	<b>7,510.81</b>		<b>0.80</b>		<b>7,527.57</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.10	0.10	1.17	0.00	0.01	0.01	0.02	0.01	0.01	0.02		192.73		0.01		192.97
<b>Total</b>	<b>0.10</b>	<b>0.10</b>	<b>1.17</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>		<b>192.73</b>		<b>0.01</b>		<b>192.97</b>

### 3.3 Site Preparation - 2013

#### 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					18.07	0.00	18.07	9.93	0.00	9.93						0.00
Off-Road	9.90	79.99	45.35	0.07		3.93	3.93		3.93	3.93		7,997.69		0.89		8,016.38
<b>Total</b>	<b>9.90</b>	<b>79.99</b>	<b>45.35</b>	<b>0.07</b>	<b>18.07</b>	<b>3.93</b>	<b>22.00</b>	<b>9.93</b>	<b>3.93</b>	<b>13.86</b>		<b>7,997.69</b>		<b>0.89</b>		<b>8,016.38</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.12	0.12	1.40	0.00	0.28	0.01	0.29	0.01	0.01	0.02		231.27		0.01		231.56
<b>Total</b>	<b>0.12</b>	<b>0.12</b>	<b>1.40</b>	<b>0.00</b>	<b>0.28</b>	<b>0.01</b>	<b>0.29</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>		<b>231.27</b>		<b>0.01</b>		<b>231.56</b>

### 3.3 Site Preparation - 2013

#### 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					18.07	0.00	18.07	9.93	0.00	9.93						0.00
Off-Road	9.90	79.99	45.35	0.07		3.93	3.93		3.93	3.93	0.00	7,997.69		0.89		8,016.38
<b>Total</b>	<b>9.90</b>	<b>79.99</b>	<b>45.35</b>	<b>0.07</b>	<b>18.07</b>	<b>3.93</b>	<b>22.00</b>	<b>9.93</b>	<b>3.93</b>	<b>13.86</b>	<b>0.00</b>	<b>7,997.69</b>		<b>0.89</b>		<b>8,016.38</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.12	0.12	1.40	0.00	0.01	0.01	0.02	0.01	0.01	0.02		231.27		0.01		231.56
<b>Total</b>	<b>0.12</b>	<b>0.12</b>	<b>1.40</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>		<b>231.27</b>		<b>0.01</b>		<b>231.56</b>

### 3.4 Grading - 2013

#### 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					6.38	0.00	6.38	3.31	0.00	3.31							0.00
Off-Road	6.36	48.81	31.00	0.05		2.73	2.73		2.73	2.73		5,240.06		0.57			5,252.04
<b>Total</b>	<b>6.36</b>	<b>48.81</b>	<b>31.00</b>	<b>0.05</b>	<b>6.38</b>	<b>2.73</b>	<b>9.11</b>	<b>3.31</b>	<b>2.73</b>	<b>6.04</b>		<b>5,240.06</b>		<b>0.57</b>			<b>5,252.04</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00			0.00
Vendor	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
Worker	0.10	0.10	1.17	0.00	0.23	0.01	0.24	0.01	0.01	0.02		192.73		0.01			192.97
<b>Total</b>	<b>0.10</b>	<b>0.10</b>	<b>1.17</b>	<b>0.00</b>	<b>0.23</b>	<b>0.01</b>	<b>0.24</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>		<b>192.73</b>		<b>0.01</b>			<b>192.97</b>

### 3.4 Grading - 2013

#### 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					6.38	0.00	6.38	3.31	0.00	3.31						0.00
Off-Road	6.36	48.81	31.00	0.05		2.73	2.73		2.73	2.73	0.00	5,240.06		0.57		5,252.04
<b>Total</b>	<b>6.36</b>	<b>48.81</b>	<b>31.00</b>	<b>0.05</b>	<b>6.38</b>	<b>2.73</b>	<b>9.11</b>	<b>3.31</b>	<b>2.73</b>	<b>6.04</b>	<b>0.00</b>	<b>5,240.06</b>		<b>0.57</b>		<b>5,252.04</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.10	0.10	1.17	0.00	0.01	0.01	0.02	0.01	0.01	0.02		192.73		0.01		192.97
<b>Total</b>	<b>0.10</b>	<b>0.10</b>	<b>1.17</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>		<b>192.73</b>		<b>0.01</b>		<b>192.97</b>

### 3.5 Building Construction - 2013

#### 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	5.17	34.66	23.45	0.04		2.28	2.28		2.28	2.28		4,040.62		0.46		4,050.31
<b>Total</b>	<b>5.17</b>	<b>34.66</b>	<b>23.45</b>	<b>0.04</b>		<b>2.28</b>	<b>2.28</b>		<b>2.28</b>	<b>2.28</b>		<b>4,040.62</b>		<b>0.46</b>		<b>4,050.31</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.37	3.90	2.52	0.01	0.21	0.14	0.36	0.02	0.14	0.16		636.53		0.02		636.92
Worker	1.03	1.01	11.91	0.02	2.35	0.08	2.43	0.09	0.08	0.17		1,965.81		0.12		1,968.28
<b>Total</b>	<b>1.40</b>	<b>4.91</b>	<b>14.43</b>	<b>0.03</b>	<b>2.56</b>	<b>0.22</b>	<b>2.79</b>	<b>0.11</b>	<b>0.22</b>	<b>0.33</b>		<b>2,602.34</b>		<b>0.14</b>		<b>2,605.20</b>

### 3.5 Building Construction - 2013

#### 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	5.17	34.66	23.45	0.04		2.28	2.28		2.28	2.28	0.00	4,040.62		0.46		4,050.31
<b>Total</b>	<b>5.17</b>	<b>34.66</b>	<b>23.45</b>	<b>0.04</b>		<b>2.28</b>	<b>2.28</b>		<b>2.28</b>	<b>2.28</b>	<b>0.00</b>	<b>4,040.62</b>		<b>0.46</b>		<b>4,050.31</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.37	3.90	2.52	0.01	0.02	0.14	0.16	0.02	0.14	0.16		636.53		0.02		636.92
Worker	1.03	1.01	11.91	0.02	0.09	0.08	0.17	0.09	0.08	0.17		1,965.81		0.12		1,968.28
<b>Total</b>	<b>1.40</b>	<b>4.91</b>	<b>14.43</b>	<b>0.03</b>	<b>0.11</b>	<b>0.22</b>	<b>0.33</b>	<b>0.11</b>	<b>0.22</b>	<b>0.33</b>		<b>2,602.34</b>		<b>0.14</b>		<b>2,605.20</b>

### 3.5 Building Construction - 2014

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.74	32.06	23.20	0.04		2.02	2.02		2.02	2.02		4,040.61		0.42		4,049.51
<b>Total</b>	<b>4.74</b>	<b>32.06</b>	<b>23.20</b>	<b>0.04</b>		<b>2.02</b>	<b>2.02</b>		<b>2.02</b>	<b>2.02</b>		<b>4,040.61</b>		<b>0.42</b>		<b>4,049.51</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.34	3.54	2.29	0.01	0.21	0.13	0.34	0.02	0.13	0.14		637.80		0.02		638.15
Worker	0.96	0.93	10.99	0.02	2.35	0.08	2.43	0.09	0.08	0.17		1,934.05		0.11		1,936.37
<b>Total</b>	<b>1.30</b>	<b>4.47</b>	<b>13.28</b>	<b>0.03</b>	<b>2.56</b>	<b>0.21</b>	<b>2.77</b>	<b>0.11</b>	<b>0.21</b>	<b>0.31</b>		<b>2,571.85</b>		<b>0.13</b>		<b>2,574.52</b>

### 3.5 Building Construction - 2014

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.74	32.06	23.20	0.04		2.02	2.02		2.02	2.02	0.00	4,040.61		0.42		4,049.51
<b>Total</b>	<b>4.74</b>	<b>32.06</b>	<b>23.20</b>	<b>0.04</b>		<b>2.02</b>	<b>2.02</b>		<b>2.02</b>	<b>2.02</b>	<b>0.00</b>	<b>4,040.61</b>		<b>0.42</b>		<b>4,049.51</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.34	3.54	2.29	0.01	0.02	0.13	0.14	0.02	0.13	0.14		637.80		0.02		638.15
Worker	0.96	0.93	10.99	0.02	0.09	0.08	0.17	0.09	0.08	0.17		1,934.05		0.11		1,936.37
<b>Total</b>	<b>1.30</b>	<b>4.47</b>	<b>13.28</b>	<b>0.03</b>	<b>0.11</b>	<b>0.21</b>	<b>0.31</b>	<b>0.11</b>	<b>0.21</b>	<b>0.31</b>		<b>2,571.85</b>		<b>0.13</b>		<b>2,574.52</b>

### 3.6 Paving - 2014

#### 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	5.20	32.09	20.70	0.03		2.74	2.74		2.74	2.74		2,917.65		0.47		2,927.48
Paving	0.00					0.00	0.00		0.00	0.00						0.00
<b>Total</b>	<b>5.20</b>	<b>32.09</b>	<b>20.70</b>	<b>0.03</b>		<b>2.74</b>	<b>2.74</b>		<b>2.74</b>	<b>2.74</b>		<b>2,917.65</b>		<b>0.47</b>		<b>2,927.48</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.09	0.09	1.08	0.00	0.23	0.01	0.24	0.01	0.01	0.02		189.61		0.01		189.84
<b>Total</b>	<b>0.09</b>	<b>0.09</b>	<b>1.08</b>	<b>0.00</b>	<b>0.23</b>	<b>0.01</b>	<b>0.24</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>		<b>189.61</b>		<b>0.01</b>		<b>189.84</b>

### 3.6 Paving - 2014

#### 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	5.20	32.09	20.70	0.03		2.74	2.74		2.74	2.74	0.00	2,917.65		0.47		2,927.48
Paving	0.00					0.00	0.00		0.00	0.00						0.00
<b>Total</b>	<b>5.20</b>	<b>32.09</b>	<b>20.70</b>	<b>0.03</b>		<b>2.74</b>	<b>2.74</b>		<b>2.74</b>	<b>2.74</b>	<b>0.00</b>	<b>2,917.65</b>		<b>0.47</b>		<b>2,927.48</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.09	0.09	1.08	0.00	0.01	0.01	0.02	0.01	0.01	0.02		189.61		0.01		189.84
<b>Total</b>	<b>0.09</b>	<b>0.09</b>	<b>1.08</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>		<b>189.61</b>		<b>0.01</b>		<b>189.84</b>

### 3.7 Architectural Coating - 2014

#### 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	39.45					0.00	0.00		0.00	0.00						0.00
Off-Road	0.45	2.77	1.92	0.00		0.24	0.24		0.24	0.24		281.19		0.04		282.03
<b>Total</b>	<b>39.90</b>	<b>2.77</b>	<b>1.92</b>	<b>0.00</b>		<b>0.24</b>	<b>0.24</b>		<b>0.24</b>	<b>0.24</b>		<b>281.19</b>		<b>0.04</b>		<b>282.03</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.19	0.19	2.23	0.00	0.48	0.02	0.49	0.02	0.02	0.03		391.87		0.02		392.34
<b>Total</b>	<b>0.19</b>	<b>0.19</b>	<b>2.23</b>	<b>0.00</b>	<b>0.48</b>	<b>0.02</b>	<b>0.49</b>	<b>0.02</b>	<b>0.02</b>	<b>0.03</b>		<b>391.87</b>		<b>0.02</b>		<b>392.34</b>

### 3.7 Architectural Coating - 2014

#### 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	39.45					0.00	0.00		0.00	0.00							0.00
Off-Road	0.45	2.77	1.92	0.00		0.24	0.24		0.24	0.24	0.00	281.19		0.04			282.03
<b>Total</b>	<b>39.90</b>	<b>2.77</b>	<b>1.92</b>	<b>0.00</b>		<b>0.24</b>	<b>0.24</b>		<b>0.24</b>	<b>0.24</b>	<b>0.00</b>	<b>281.19</b>		<b>0.04</b>			<b>282.03</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00			0.00
Vendor	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
Worker	0.19	0.19	2.23	0.00	0.02	0.02	0.03	0.02	0.02	0.03		391.87		0.02			392.34
<b>Total</b>	<b>0.19</b>	<b>0.19</b>	<b>2.23</b>	<b>0.00</b>	<b>0.02</b>	<b>0.02</b>	<b>0.03</b>	<b>0.02</b>	<b>0.02</b>	<b>0.03</b>		<b>391.87</b>		<b>0.02</b>			<b>392.34</b>

### 4.0 Mobile Detail

#### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.89	19.43	78.38	0.15	15.54	0.91	16.45	0.54	0.91	1.45		14,571.09		0.53		14,582.22
Unmitigated	7.89	19.43	78.38	0.15	15.54	0.91	16.45	0.54	0.91	1.45		14,571.09		0.53		14,582.22
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	605.15	581.49	581.49	1,992,982	1,992,982
Apartments Low Rise	425.60	408.96	408.96	1,401,658	1,401,658
Apartments Low Rise	379.05	364.23	364.23	1,248,352	1,248,352
<b>Total</b>	<b>1,409.80</b>	<b>1,354.68</b>	<b>1,354.68</b>	<b>4,642,992</b>	<b>4,642,992</b>

#### 4.3 Trip Type Information

Land Use	Miles			Trip %		
	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
Apartments Low Rise	12.70	7.00	9.50	40.20	19.20	40.60
Apartments Low Rise	12.70	7.00	9.50	40.20	19.20	40.60

Land Use	Miles			Trip %		
	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
Apartments Low Rise	12.70	7.00	9.50	40.20	19.20	40.60

## 5.0 Energy Detail

### 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	0.12	1.01	0.43	0.01		0.00	0.08		0.00	0.08		1,286.46		0.02	0.02	1,294.29
NaturalGas Unmitigated	0.12	1.01	0.43	0.01		0.00	0.08		0.00	0.08		1,286.46		0.02	0.02	1,294.29
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

## 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	lb/day										lb/day					
Apartments Low Rise	2940.05	0.03	0.27	0.12	0.00		0.00	0.02		0.00	0.02		345.89		0.01	0.01	347.99
Apartments Low Rise	3301.1	0.04	0.30	0.13	0.00		0.00	0.02		0.00	0.02		388.37		0.01	0.01	390.73
Apartments Low Rise	4693.76	0.05	0.43	0.18	0.00		0.00	0.03		0.00	0.03		552.21		0.01	0.01	555.57
<b>Total</b>		<b>0.12</b>	<b>1.00</b>	<b>0.43</b>	<b>0.00</b>		<b>0.00</b>	<b>0.07</b>		<b>0.00</b>	<b>0.07</b>		<b>1,286.47</b>		<b>0.03</b>	<b>0.03</b>	<b>1,294.29</b>

### 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	lb/day										lb/day					
Apartments Low Rise	2.94005	0.03	0.27	0.12	0.00		0.00	0.02		0.00	0.02		345.89		0.01	0.01	347.99
Apartments Low Rise	3.3011	0.04	0.30	0.13	0.00		0.00	0.02		0.00	0.02		388.37		0.01	0.01	390.73
Apartments Low Rise	4.69376	0.05	0.43	0.18	0.00		0.00	0.03		0.00	0.03		552.21		0.01	0.01	555.57
<b>Total</b>		<b>0.12</b>	<b>1.00</b>	<b>0.43</b>	<b>0.00</b>		<b>0.00</b>	<b>0.07</b>		<b>0.00</b>	<b>0.07</b>		<b>1,286.47</b>		<b>0.03</b>	<b>0.03</b>	<b>1,294.29</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.23	0.21	18.03	0.00		0.00	0.10		0.00	0.10	0.00	31.88		0.03	0.00	32.57
Unmitigated	5.23	0.21	18.03	0.00		0.00	0.10		0.00	0.10	0.00	31.88		0.03	0.00	32.57
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

## 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	0.45					0.00	0.00		0.00	0.00							0.00
Consumer Products	4.20					0.00	0.00		0.00	0.00							0.00
Hearth	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
Landscaping	0.58	0.21	18.03	0.00		0.00	0.10		0.00	0.10		31.88		0.03			32.57
<b>Total</b>	<b>5.23</b>	<b>0.21</b>	<b>18.03</b>	<b>0.00</b>		<b>0.00</b>	<b>0.10</b>		<b>0.00</b>	<b>0.10</b>	<b>0.00</b>	<b>31.88</b>		<b>0.03</b>	<b>0.00</b>		<b>32.57</b>

### 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	0.45					0.00	0.00		0.00	0.00							0.00
Consumer Products	4.20					0.00	0.00		0.00	0.00							0.00
Hearth	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
Landscaping	0.58	0.21	18.03	0.00		0.00	0.10		0.00	0.10		31.88		0.03			32.57
<b>Total</b>	<b>5.23</b>	<b>0.21</b>	<b>18.03</b>	<b>0.00</b>		<b>0.00</b>	<b>0.10</b>		<b>0.00</b>	<b>0.10</b>	<b>0.00</b>	<b>31.88</b>		<b>0.03</b>	<b>0.00</b>		<b>32.57</b>

## **7.0 Water Detail**

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### **7.1 Mitigation Measures Water**

## **8.0 Waste Detail**

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### **8.1 Mitigation Measures Waste**

## **9.0 Vegetation**

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## Malibu Housing Element Los Angeles-South Coast County, Annual

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric
Apartments Low Rise	91	Dwelling Unit
Apartments Low Rise	64	Dwelling Unit
Apartments Low Rise	57	Dwelling Unit

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Utility Company</b>	Southern California Edison
<b>Climate Zone</b>	8	<b>Precipitation Freq (Days)</b>	33		

#### 1.3 User Entered Comments

Project Characteristics -

Land Use - Actual lot size entered.

Construction Phase - Paving and coating revised to reflect more realistic time frame. No demo would occur.

Off-road Equipment -

Off-road Equipment - No demo is required.

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - Trip generation modified to reflect traffic study.

Woodstoves - High density affordable housing assumed to have no hearths.

Water And Wastewater - Sites would be solely served by septic.

Construction Off-road Equipment Mitigation -

Area Mitigation - High density affordable housing assumed to have no hearths.

## **2.0 Emissions Summary**

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## 2.1 Overall Construction

### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2013	0.87	5.51	4.87	0.01	0.44	0.34	0.78	0.11	0.34	0.45	0.00	764.03	764.03	0.07	0.00	765.53
2014	1.20	2.22	2.01	0.00	0.11	0.15	0.26	0.00	0.15	0.16	0.00	310.59	310.59	0.03	0.00	311.23
<b>Total</b>	<b>2.07</b>	<b>7.73</b>	<b>6.88</b>	<b>0.01</b>	<b>0.55</b>	<b>0.49</b>	<b>1.04</b>	<b>0.11</b>	<b>0.49</b>	<b>0.61</b>	<b>0.00</b>	<b>1,074.62</b>	<b>1,074.62</b>	<b>0.10</b>	<b>0.00</b>	<b>1,076.76</b>

### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2013	0.87	5.51	4.87	0.01	0.20	0.34	0.53	0.11	0.34	0.45	0.00	764.03	764.03	0.07	0.00	765.53
2014	1.20	2.22	2.01	0.00	0.00	0.15	0.16	0.00	0.15	0.16	0.00	310.59	310.59	0.03	0.00	311.23
<b>Total</b>	<b>2.07</b>	<b>7.73</b>	<b>6.88</b>	<b>0.01</b>	<b>0.20</b>	<b>0.49</b>	<b>0.69</b>	<b>0.11</b>	<b>0.49</b>	<b>0.61</b>	<b>0.00</b>	<b>1,074.62</b>	<b>1,074.62</b>	<b>0.10</b>	<b>0.00</b>	<b>1,076.76</b>

## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.95	0.04	3.29	0.00		0.00	0.02		0.00	0.02	0.00	5.27	5.27	0.01	0.00	5.39
Energy	0.02	0.18	0.08	0.00		0.00	0.01		0.00	0.01	0.00	431.25	431.25	0.01	0.01	433.92
Mobile	1.42	3.53	13.98	0.03	2.50	0.16	2.67	0.10	0.16	0.26	0.00	2,278.53	2,278.53	0.09	0.00	2,280.37
Waste						0.00	0.00		0.00	0.00	19.80	0.00	19.80	1.17	0.00	44.36
Water						0.00	0.00		0.00	0.00	0.00	80.45	80.45	3.14	0.01	150.07
<b>Total</b>	<b>2.39</b>	<b>3.75</b>	<b>17.35</b>	<b>0.03</b>	<b>2.50</b>	<b>0.16</b>	<b>2.70</b>	<b>0.10</b>	<b>0.16</b>	<b>0.29</b>	<b>19.80</b>	<b>2,795.50</b>	<b>2,815.30</b>	<b>4.42</b>	<b>0.02</b>	<b>2,914.11</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	0.95	0.04	3.29	0.00		0.00	0.02		0.00	0.02	0.00	5.27	5.27	0.01	0.00	5.39
Energy	0.02	0.18	0.08	0.00		0.00	0.01		0.00	0.01	0.00	431.25	431.25	0.01	0.01	433.92
Mobile	1.42	3.53	13.98	0.03	2.50	0.16	2.67	0.10	0.16	0.26	0.00	2,278.53	2,278.53	0.09	0.00	2,280.37
Waste						0.00	0.00		0.00	0.00	19.80	0.00	19.80	1.17	0.00	44.36
Water						0.00	0.00		0.00	0.00	0.00	80.45	80.45	3.14	0.01	150.07
<b>Total</b>	<b>2.39</b>	<b>3.75</b>	<b>17.35</b>	<b>0.03</b>	<b>2.50</b>	<b>0.16</b>	<b>2.70</b>	<b>0.10</b>	<b>0.16</b>	<b>0.29</b>	<b>19.80</b>	<b>2,795.50</b>	<b>2,815.30</b>	<b>4.42</b>	<b>0.02</b>	<b>2,914.11</b>

## 3.0 Construction Detail

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### 3.1 Mitigation Measures Construction

### 3.2 Demolition - 2013

#### 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	0.00	0.04	0.02	0.00		0.00	0.00		0.00	0.00	0.00	3.41	3.41	0.00	0.00	3.41
<b>Total</b>	<b>0.00</b>	<b>0.04</b>	<b>0.02</b>	<b>0.00</b>		<b>0.00</b>	<b>0.00</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>3.41</b>	<b>3.41</b>	<b>0.00</b>	<b>0.00</b>	<b>3.41</b>

#### 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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.00	0.00	0.08
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.08</b>	<b>0.08</b>	<b>0.00</b>	<b>0.00</b>	<b>0.08</b>

### 3.2 Demolition - 2013

#### 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	0.00	0.04	0.02	0.00		0.00	0.00		0.00	0.00	0.00	3.41	3.41	0.00	0.00	3.41
<b>Total</b>	<b>0.00</b>	<b>0.04</b>	<b>0.02</b>	<b>0.00</b>		<b>0.00</b>	<b>0.00</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>3.41</b>	<b>3.41</b>	<b>0.00</b>	<b>0.00</b>	<b>3.41</b>

#### 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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.00	0.00	0.08
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.08</b>	<b>0.08</b>	<b>0.00</b>	<b>0.00</b>	<b>0.08</b>

### 3.3 Site Preparation - 2013

#### 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					0.09	0.00	0.09	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.05	0.40	0.23	0.00		0.02	0.02		0.02	0.02	0.00	36.27	36.27	0.00	0.00	36.35
<b>Total</b>	<b>0.05</b>	<b>0.40</b>	<b>0.23</b>	<b>0.00</b>	<b>0.09</b>	<b>0.02</b>	<b>0.11</b>	<b>0.05</b>	<b>0.02</b>	<b>0.07</b>	<b>0.00</b>	<b>36.27</b>	<b>36.27</b>	<b>0.00</b>	<b>0.00</b>	<b>36.35</b>

#### 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	0.00	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
Vendor	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
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.00	0.00	1.00
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.99</b>	<b>0.99</b>	<b>0.00</b>	<b>0.00</b>	<b>1.00</b>

### 3.3 Site Preparation - 2013

#### 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					0.09	0.00	0.09	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.05	0.40	0.23	0.00		0.02	0.02		0.02	0.02	0.00	36.27	36.27	0.00	0.00	36.35
<b>Total</b>	<b>0.05</b>	<b>0.40</b>	<b>0.23</b>	<b>0.00</b>	<b>0.09</b>	<b>0.02</b>	<b>0.11</b>	<b>0.05</b>	<b>0.02</b>	<b>0.07</b>	<b>0.00</b>	<b>36.27</b>	<b>36.27</b>	<b>0.00</b>	<b>0.00</b>	<b>36.35</b>

#### 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	0.00	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
Vendor	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
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.00	0.00	1.00
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.99</b>	<b>0.99</b>	<b>0.00</b>	<b>0.00</b>	<b>1.00</b>

### 3.4 Grading - 2013

#### 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					0.10	0.00	0.10	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.10	0.73	0.46	0.00		0.04	0.04		0.04	0.04	0.00	71.29	71.29	0.01	0.00	71.45
<b>Total</b>	<b>0.10</b>	<b>0.73</b>	<b>0.46</b>	<b>0.00</b>	<b>0.10</b>	<b>0.04</b>	<b>0.14</b>	<b>0.05</b>	<b>0.04</b>	<b>0.09</b>	<b>0.00</b>	<b>71.29</b>	<b>71.29</b>	<b>0.01</b>	<b>0.00</b>	<b>71.45</b>

#### 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	0.00	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
Vendor	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
Worker	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.49	2.49	0.00	0.00	2.49
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.02</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>2.49</b>	<b>2.49</b>	<b>0.00</b>	<b>0.00</b>	<b>2.49</b>

### 3.4 Grading - 2013

#### 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					0.10	0.00	0.10	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.10	0.73	0.46	0.00		0.04	0.04		0.04	0.04	0.00	71.29	71.29	0.01	0.00	71.45
<b>Total</b>	<b>0.10</b>	<b>0.73</b>	<b>0.46</b>	<b>0.00</b>	<b>0.10</b>	<b>0.04</b>	<b>0.14</b>	<b>0.05</b>	<b>0.04</b>	<b>0.09</b>	<b>0.00</b>	<b>71.29</b>	<b>71.29</b>	<b>0.01</b>	<b>0.00</b>	<b>71.45</b>

#### 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	0.00	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
Vendor	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
Worker	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.49	2.49	0.00	0.00	2.49
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.02</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>2.49</b>	<b>2.49</b>	<b>0.00</b>	<b>0.00</b>	<b>2.49</b>

### 3.5 Building Construction - 2013

#### 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	0.57	3.79	2.57	0.00		0.25	0.25		0.25	0.25	0.00	401.27	401.27	0.05	0.00	402.24
<b>Total</b>	<b>0.57</b>	<b>3.79</b>	<b>2.57</b>	<b>0.00</b>		<b>0.25</b>	<b>0.25</b>		<b>0.25</b>	<b>0.25</b>	<b>0.00</b>	<b>401.27</b>	<b>401.27</b>	<b>0.05</b>	<b>0.00</b>	<b>402.24</b>

#### 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	0.00	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
Vendor	0.04	0.43	0.30	0.00	0.02	0.02	0.04	0.00	0.02	0.02	0.00	63.04	63.04	0.00	0.00	63.08
Worker	0.11	0.12	1.26	0.00	0.23	0.01	0.24	0.01	0.01	0.02	0.00	185.19	185.19	0.01	0.00	185.43
<b>Total</b>	<b>0.15</b>	<b>0.55</b>	<b>1.56</b>	<b>0.00</b>	<b>0.25</b>	<b>0.03</b>	<b>0.28</b>	<b>0.01</b>	<b>0.03</b>	<b>0.04</b>	<b>0.00</b>	<b>248.23</b>	<b>248.23</b>	<b>0.01</b>	<b>0.00</b>	<b>248.51</b>

### 3.5 Building Construction - 2013

#### 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	0.57	3.79	2.57	0.00		0.25	0.25		0.25	0.25	0.00	401.27	401.27	0.05	0.00	402.24
<b>Total</b>	<b>0.57</b>	<b>3.79</b>	<b>2.57</b>	<b>0.00</b>		<b>0.25</b>	<b>0.25</b>		<b>0.25</b>	<b>0.25</b>	<b>0.00</b>	<b>401.27</b>	<b>401.27</b>	<b>0.05</b>	<b>0.00</b>	<b>402.24</b>

#### 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	0.00	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
Vendor	0.04	0.43	0.30	0.00	0.00	0.02	0.02	0.00	0.02	0.02	0.00	63.04	63.04	0.00	0.00	63.08
Worker	0.11	0.12	1.26	0.00	0.01	0.01	0.02	0.01	0.01	0.02	0.00	185.19	185.19	0.01	0.00	185.43
<b>Total</b>	<b>0.15</b>	<b>0.55</b>	<b>1.56</b>	<b>0.00</b>	<b>0.01</b>	<b>0.03</b>	<b>0.04</b>	<b>0.01</b>	<b>0.03</b>	<b>0.04</b>	<b>0.00</b>	<b>248.23</b>	<b>248.23</b>	<b>0.01</b>	<b>0.00</b>	<b>248.51</b>

### 3.5 Building Construction - 2014

#### 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	0.19	1.30	0.94	0.00		0.08	0.08		0.08	0.08	0.00	148.42	148.42	0.02	0.00	148.74
<b>Total</b>	<b>0.19</b>	<b>1.30</b>	<b>0.94</b>	<b>0.00</b>		<b>0.08</b>	<b>0.08</b>		<b>0.08</b>	<b>0.08</b>	<b>0.00</b>	<b>148.42</b>	<b>148.42</b>	<b>0.02</b>	<b>0.00</b>	<b>148.74</b>

#### 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	0.00	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
Vendor	0.01	0.14	0.10	0.00	0.01	0.01	0.01	0.00	0.01	0.01	0.00	23.36	23.36	0.00	0.00	23.38
Worker	0.04	0.04	0.43	0.00	0.09	0.00	0.09	0.00	0.00	0.01	0.00	67.39	67.39	0.00	0.00	67.47
<b>Total</b>	<b>0.05</b>	<b>0.18</b>	<b>0.53</b>	<b>0.00</b>	<b>0.10</b>	<b>0.01</b>	<b>0.10</b>	<b>0.00</b>	<b>0.01</b>	<b>0.02</b>	<b>0.00</b>	<b>90.75</b>	<b>90.75</b>	<b>0.00</b>	<b>0.00</b>	<b>90.85</b>

### 3.5 Building Construction - 2014

#### 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	0.19	1.30	0.94	0.00		0.08	0.08		0.08	0.08	0.00	148.42	148.42	0.02	0.00	148.74
<b>Total</b>	<b>0.19</b>	<b>1.30</b>	<b>0.94</b>	<b>0.00</b>		<b>0.08</b>	<b>0.08</b>		<b>0.08</b>	<b>0.08</b>	<b>0.00</b>	<b>148.42</b>	<b>148.42</b>	<b>0.02</b>	<b>0.00</b>	<b>148.74</b>

#### 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	0.00	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
Vendor	0.01	0.14	0.10	0.00	0.00	0.01	0.01	0.00	0.01	0.01	0.00	23.36	23.36	0.00	0.00	23.38
Worker	0.04	0.04	0.43	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	67.39	67.39	0.00	0.00	67.47
<b>Total</b>	<b>0.05</b>	<b>0.18</b>	<b>0.53</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>	<b>0.02</b>	<b>0.00</b>	<b>0.01</b>	<b>0.02</b>	<b>0.00</b>	<b>90.75</b>	<b>90.75</b>	<b>0.00</b>	<b>0.00</b>	<b>90.85</b>

### 3.6 Paving - 2014

#### 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	0.11	0.67	0.43	0.00		0.06	0.06		0.06	0.06	0.00	55.57	55.57	0.01	0.00	55.76
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>0.11</b>	<b>0.67</b>	<b>0.43</b>	<b>0.00</b>		<b>0.06</b>	<b>0.06</b>		<b>0.06</b>	<b>0.06</b>	<b>0.00</b>	<b>55.57</b>	<b>55.57</b>	<b>0.01</b>	<b>0.00</b>	<b>55.76</b>

#### 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	0.00	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
Vendor	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
Worker	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.43	3.43	0.00	0.00	3.43
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.02</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>3.43</b>	<b>3.43</b>	<b>0.00</b>	<b>0.00</b>	<b>3.43</b>

### 3.6 Paving - 2014

#### 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	0.11	0.67	0.43	0.00		0.06	0.06		0.06	0.06	0.00	55.57	55.57	0.01	0.00	55.76
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>0.11</b>	<b>0.67</b>	<b>0.43</b>	<b>0.00</b>		<b>0.06</b>	<b>0.06</b>		<b>0.06</b>	<b>0.06</b>	<b>0.00</b>	<b>55.57</b>	<b>55.57</b>	<b>0.01</b>	<b>0.00</b>	<b>55.76</b>

#### 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	0.00	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
Vendor	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
Worker	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.43	3.43	0.00	0.00	3.43
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.02</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>3.43</b>	<b>3.43</b>	<b>0.00</b>	<b>0.00</b>	<b>3.43</b>

### 3.7 Architectural Coating - 2014

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.83					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.06	0.04	0.00		0.01	0.01		0.01	0.01	0.00	5.36	5.36	0.00	0.00	5.37
<b>Total</b>	<b>0.84</b>	<b>0.06</b>	<b>0.04</b>	<b>0.00</b>		<b>0.01</b>	<b>0.01</b>		<b>0.01</b>	<b>0.01</b>	<b>0.00</b>	<b>5.36</b>	<b>5.36</b>	<b>0.00</b>	<b>0.00</b>	<b>5.37</b>

#### 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	0.00	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
Vendor	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
Worker	0.00	0.00	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	7.08	7.08	0.00	0.00	7.09
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.05</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>7.08</b>	<b>7.08</b>	<b>0.00</b>	<b>0.00</b>	<b>7.09</b>

### 3.7 Architectural Coating - 2014

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.83					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.06	0.04	0.00		0.01	0.01		0.01	0.01	0.00	5.36	5.36	0.00	0.00	5.37
<b>Total</b>	<b>0.84</b>	<b>0.06</b>	<b>0.04</b>	<b>0.00</b>		<b>0.01</b>	<b>0.01</b>		<b>0.01</b>	<b>0.01</b>	<b>0.00</b>	<b>5.36</b>	<b>5.36</b>	<b>0.00</b>	<b>0.00</b>	<b>5.37</b>

#### 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	0.00	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
Vendor	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
Worker	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.08	7.08	0.00	0.00	7.09
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.05</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>7.08</b>	<b>7.08</b>	<b>0.00</b>	<b>0.00</b>	<b>7.09</b>

### 4.0 Mobile Detail

#### 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	1.42	3.53	13.98	0.03	2.50	0.16	2.67	0.10	0.16	0.26	0.00	2,278.53	2,278.53	0.09	0.00	2,280.37
Unmitigated	1.42	3.53	13.98	0.03	2.50	0.16	2.67	0.10	0.16	0.26	0.00	2,278.53	2,278.53	0.09	0.00	2,280.37
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	605.15	581.49	581.49	1,992,982	1,992,982
Apartments Low Rise	425.60	408.96	408.96	1,401,658	1,401,658
Apartments Low Rise	379.05	364.23	364.23	1,248,352	1,248,352
<b>Total</b>	<b>1,409.80</b>	<b>1,354.68</b>	<b>1,354.68</b>	<b>4,642,992</b>	<b>4,642,992</b>

#### 4.3 Trip Type Information

Land Use	Miles			Trip %		
	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
Apartments Low Rise	12.70	7.00	9.50	40.20	19.20	40.60
Apartments Low Rise	12.70	7.00	9.50	40.20	19.20	40.60

Land Use	Miles			Trip %		
	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
Apartments Low Rise	12.70	7.00	9.50	40.20	19.20	40.60

## 5.0 Energy Detail

### 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						0.00	0.00		0.00	0.00	0.00	218.27	218.27	0.01	0.00	219.63
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	218.27	218.27	0.01	0.00	219.63
NaturalGas Mitigated	0.02	0.18	0.08	0.00		0.00	0.01		0.00	0.01	0.00	212.99	212.99	0.00	0.00	214.28
NaturalGas Unmitigated	0.02	0.18	0.08	0.00		0.00	0.01		0.00	0.01	0.00	212.99	212.99	0.00	0.00	214.28
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

## 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	tons/yr										MT/yr					
Apartments Low Rise	1.07312e+006	0.01	0.05	0.02	0.00		0.00	0.00		0.00	0.00	0.00	57.27	57.27	0.00	0.00	57.61
Apartments Low Rise	1.2049e+006	0.01	0.06	0.02	0.00		0.00	0.00		0.00	0.00	0.00	64.30	64.30	0.00	0.00	64.69
Apartments Low Rise	1.71322e+006	0.01	0.08	0.03	0.00		0.00	0.01		0.00	0.01	0.00	91.42	91.42	0.00	0.00	91.98
<b>Total</b>		<b>0.03</b>	<b>0.19</b>	<b>0.07</b>	<b>0.00</b>		<b>0.00</b>	<b>0.01</b>		<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>212.99</b>	<b>212.99</b>	<b>0.00</b>	<b>0.00</b>	<b>214.28</b>

### 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	tons/yr										MT/yr					
Apartments Low Rise	1.07312e+006	0.01	0.05	0.02	0.00		0.00	0.00		0.00	0.00	0.00	57.27	57.27	0.00	0.00	57.61
Apartments Low Rise	1.2049e+006	0.01	0.06	0.02	0.00		0.00	0.00		0.00	0.00	0.00	64.30	64.30	0.00	0.00	64.69
Apartments Low Rise	1.71322e+006	0.01	0.08	0.03	0.00		0.00	0.01		0.00	0.01	0.00	91.42	91.42	0.00	0.00	91.98
<b>Total</b>		<b>0.03</b>	<b>0.19</b>	<b>0.07</b>	<b>0.00</b>		<b>0.00</b>	<b>0.01</b>		<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>212.99</b>	<b>212.99</b>	<b>0.00</b>	<b>0.00</b>	<b>214.28</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Low Rise	201756					58.68	0.00	0.00	59.05
Apartments Low Rise	226533					65.89	0.00	0.00	66.30
Apartments Low Rise	322102					93.69	0.00	0.00	94.28
<b>Total</b>						<b>218.26</b>	<b>0.00</b>	<b>0.00</b>	<b>219.63</b>

#### Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Low Rise	201756					58.68	0.00	0.00	59.05
Apartments Low Rise	226533					65.89	0.00	0.00	66.30
Apartments Low Rise	322102					93.69	0.00	0.00	94.28
<b>Total</b>						<b>218.26</b>	<b>0.00</b>	<b>0.00</b>	<b>219.63</b>

### 6.0 Area Detail

### 6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.95	0.04	3.29	0.00		0.00	0.02		0.00	0.02	0.00	5.27	5.27	0.01	0.00	5.39
Unmitigated	0.95	0.04	3.29	0.00		0.00	0.02		0.00	0.02	0.00	5.27	5.27	0.01	0.00	5.39
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

## 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	0.08					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.77					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	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
Landscaping	0.11	0.04	3.29	0.00		0.00	0.02		0.00	0.02	0.00	5.27	5.27	0.01	0.00	5.39
<b>Total</b>	<b>0.96</b>	<b>0.04</b>	<b>3.29</b>	<b>0.00</b>		<b>0.00</b>	<b>0.02</b>		<b>0.00</b>	<b>0.02</b>	<b>0.00</b>	<b>5.27</b>	<b>5.27</b>	<b>0.01</b>	<b>0.00</b>	<b>5.39</b>

### 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	0.08					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.77					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	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
Landscaping	0.11	0.04	3.29	0.00		0.00	0.02		0.00	0.02	0.00	5.27	5.27	0.01	0.00	5.39
<b>Total</b>	<b>0.96</b>	<b>0.04</b>	<b>3.29</b>	<b>0.00</b>		<b>0.00</b>	<b>0.02</b>		<b>0.00</b>	<b>0.02</b>	<b>0.00</b>	<b>5.27</b>	<b>5.27</b>	<b>0.01</b>	<b>0.00</b>	<b>5.39</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					80.45	3.14	0.01	150.07
Unmitigated					80.45	3.14	0.01	150.07
<b>Total</b>	<b>NA</b>							

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Low Rise	13.8127 / 8.70798					80.45	3.14	0.01	150.07
<b>Total</b>						<b>80.45</b>	<b>3.14</b>	<b>0.01</b>	<b>150.07</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Low Rise	13.8127 / 8.70798					80.45	3.14	0.01	150.07
<b>Total</b>						<b>80.45</b>	<b>3.14</b>	<b>0.01</b>	<b>150.07</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			
Mitigated					19.80	1.17	0.00	44.36
Unmitigated					19.80	1.17	0.00	44.36
<b>Total</b>	<b>NA</b>							

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Low Rise	97.52					19.80	1.17	0.00	44.36
<b>Total</b>						<b>19.80</b>	<b>1.17</b>	<b>0.00</b>	<b>44.36</b>

### Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Low Rise	97.52					19.80	1.17	0.00	44.36
<b>Total</b>						<b>19.80</b>	<b>1.17</b>	<b>0.00</b>	<b>44.36</b>

## 9.0 Vegetation

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## Malibu Housing Element Los Angeles-South Coast County, Summer

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric
Apartments Low Rise	91	Dwelling Unit
----- Apartments Low Rise	----- 64	----- Dwelling Unit

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Utility Company</b>	Southern California Edison
<b>Climate Zone</b>	8	<b>Precipitation Freq (Days)</b>	33		

#### 1.3 User Entered Comments

- Project Characteristics -
- Land Use - Actual lot size entered.
- Construction Phase -
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment - No demo is required.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - Trip generation modified to reflect traffic study.

Woodstoves - High density affordable housing assumed to have no hearths.

Water And Wastewater - Sites would be solely served by septic.

Construction Off-road Equipment Mitigation - 27.5% reduction each watering, 3 waterings equals 82.5% reduction.

Area Mitigation - High density affordable housing assumed to have no hearths.

## **2.0 Emissions Summary**

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## 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					
2013	10.02	80.11	46.75	0.08	18.34	3.94	22.29	9.94	3.94	13.88	0.00	8,228.96	0.00	0.90	0.00	8,247.94
2014	61.15	35.36	32.93	0.06	1.88	2.74	4.06	0.08	2.74	2.75	0.00	5,927.80	0.00	0.52	0.00	5,938.66
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

### 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					
2013	2.61	7.43	36.72	0.08	3.44	0.43	3.66	1.75	0.43	1.97	0.00	8,228.96	0.00	0.90	0.00	8,247.94
2014	60.79	7.10	34.12	0.06	1.88	0.42	2.30	0.08	0.42	0.50	0.00	5,927.80	0.00	0.52	0.00	5,938.66
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

## 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	3.82	0.15	13.19	0.00		0.00	0.07		0.00	0.07	0.00	23.31		0.02	0.00	23.81
Energy	0.09	0.74	0.31	0.00		0.00	0.06		0.00	0.06		940.57		0.02	0.02	946.30
Mobile	5.77	14.20	57.30	0.11	11.37	0.66	12.03	0.39	0.66	1.06		10,653.39		0.39		10,661.53
<b>Total</b>	<b>9.68</b>	<b>15.09</b>	<b>70.80</b>	<b>0.11</b>	<b>11.37</b>	<b>0.66</b>	<b>12.16</b>	<b>0.39</b>	<b>0.66</b>	<b>1.19</b>	<b>0.00</b>	<b>11,617.27</b>		<b>0.43</b>	<b>0.02</b>	<b>11,631.64</b>

### 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	3.82	0.15	13.19	0.00		0.00	0.07		0.00	0.07	0.00	23.31		0.02	0.00	23.81
Energy	0.09	0.74	0.31	0.00		0.00	0.06		0.00	0.06		940.57		0.02	0.02	946.30
Mobile	5.77	14.20	57.30	0.11	11.37	0.66	12.03	0.39	0.66	1.06		10,653.39		0.39		10,661.53
<b>Total</b>	<b>9.68</b>	<b>15.09</b>	<b>70.80</b>	<b>0.11</b>	<b>11.37</b>	<b>0.66</b>	<b>12.16</b>	<b>0.39</b>	<b>0.66</b>	<b>1.19</b>	<b>0.00</b>	<b>11,617.27</b>		<b>0.43</b>	<b>0.02</b>	<b>11,631.64</b>

## 3.0 Construction Detail

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

### 3.2 Demolition - 2013

#### 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	8.86	70.71	42.55	0.07		3.50	3.50		3.50	3.50		7,510.81		0.80		7,527.57
<b>Total</b>	<b>8.86</b>	<b>70.71</b>	<b>42.55</b>	<b>0.07</b>		<b>3.50</b>	<b>3.50</b>		<b>3.50</b>	<b>3.50</b>		<b>7,510.81</b>		<b>0.80</b>		<b>7,527.57</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.10	0.10	1.17	0.00	0.23	0.01	0.24	0.01	0.01	0.02		192.73		0.01		192.97
<b>Total</b>	<b>0.10</b>	<b>0.10</b>	<b>1.17</b>	<b>0.00</b>	<b>0.23</b>	<b>0.01</b>	<b>0.24</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>		<b>192.73</b>		<b>0.01</b>		<b>192.97</b>

### 3.2 Demolition - 2013

#### 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	1.70	3.65	33.88	0.07		0.18	0.18		0.18	0.18	0.00	7,510.81		0.80		7,527.57
<b>Total</b>	<b>1.70</b>	<b>3.65</b>	<b>33.88</b>	<b>0.07</b>		<b>0.18</b>	<b>0.18</b>		<b>0.18</b>	<b>0.18</b>	<b>0.00</b>	<b>7,510.81</b>		<b>0.80</b>		<b>7,527.57</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.10	0.10	1.17	0.00	0.23	0.01	0.24	0.01	0.01	0.02		192.73		0.01		192.97
<b>Total</b>	<b>0.10</b>	<b>0.10</b>	<b>1.17</b>	<b>0.00</b>	<b>0.23</b>	<b>0.01</b>	<b>0.24</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>		<b>192.73</b>		<b>0.01</b>		<b>192.97</b>

### 3.3 Site Preparation - 2013

#### 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					18.07	0.00	18.07	9.93	0.00	9.93						0.00
Off-Road	9.90	79.99	45.35	0.07		3.93	3.93		3.93	3.93		7,997.69		0.89		8,016.38
<b>Total</b>	<b>9.90</b>	<b>79.99</b>	<b>45.35</b>	<b>0.07</b>	<b>18.07</b>	<b>3.93</b>	<b>22.00</b>	<b>9.93</b>	<b>3.93</b>	<b>13.86</b>		<b>7,997.69</b>		<b>0.89</b>		<b>8,016.38</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.12	0.12	1.40	0.00	0.28	0.01	0.29	0.01	0.01	0.02		231.27		0.01		231.56
<b>Total</b>	<b>0.12</b>	<b>0.12</b>	<b>1.40</b>	<b>0.00</b>	<b>0.28</b>	<b>0.01</b>	<b>0.29</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>		<b>231.27</b>		<b>0.01</b>		<b>231.56</b>

### 3.3 Site Preparation - 2013

#### 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					3.16	0.00	3.16	1.74	0.00	1.74							0.00
Off-Road	2.06	4.22	35.32	0.07		0.21	0.21		0.21	0.21	0.00	7,997.69		0.89			8,016.38
<b>Total</b>	<b>2.06</b>	<b>4.22</b>	<b>35.32</b>	<b>0.07</b>	<b>3.16</b>	<b>0.21</b>	<b>3.37</b>	<b>1.74</b>	<b>0.21</b>	<b>1.95</b>	<b>0.00</b>	<b>7,997.69</b>		<b>0.89</b>			<b>8,016.38</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00			0.00
Vendor	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
Worker	0.12	0.12	1.40	0.00	0.28	0.01	0.29	0.01	0.01	0.02		231.27		0.01			231.56
<b>Total</b>	<b>0.12</b>	<b>0.12</b>	<b>1.40</b>	<b>0.00</b>	<b>0.28</b>	<b>0.01</b>	<b>0.29</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>		<b>231.27</b>		<b>0.01</b>			<b>231.56</b>

### 3.4 Grading - 2013

#### 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					6.55	0.00	6.55	3.31	0.00	3.31						0.00
Off-Road	6.36	48.81	31.00	0.05		2.73	2.73		2.73	2.73		5,240.06		0.57		5,252.04
<b>Total</b>	<b>6.36</b>	<b>48.81</b>	<b>31.00</b>	<b>0.05</b>	<b>6.55</b>	<b>2.73</b>	<b>9.28</b>	<b>3.31</b>	<b>2.73</b>	<b>6.04</b>		<b>5,240.06</b>		<b>0.57</b>		<b>5,252.04</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.10	0.10	1.17	0.00	0.23	0.01	0.24	0.01	0.01	0.02		192.73		0.01		192.97
<b>Total</b>	<b>0.10</b>	<b>0.10</b>	<b>1.17</b>	<b>0.00</b>	<b>0.23</b>	<b>0.01</b>	<b>0.24</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>		<b>192.73</b>		<b>0.01</b>		<b>192.97</b>

### 3.4 Grading - 2013

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					1.15	0.00	1.15	0.58	0.00	0.58							0.00
Off-Road	1.36	2.77	28.53	0.05		0.14	0.14		0.14	0.14	0.00	5,240.06		0.57			5,252.04
<b>Total</b>	<b>1.36</b>	<b>2.77</b>	<b>28.53</b>	<b>0.05</b>	<b>1.15</b>	<b>0.14</b>	<b>1.29</b>	<b>0.58</b>	<b>0.14</b>	<b>0.72</b>	<b>0.00</b>	<b>5,240.06</b>		<b>0.57</b>			<b>5,252.04</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00			0.00
Vendor	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
Worker	0.10	0.10	1.17	0.00	0.23	0.01	0.24	0.01	0.01	0.02		192.73		0.01			192.97
<b>Total</b>	<b>0.10</b>	<b>0.10</b>	<b>1.17</b>	<b>0.00</b>	<b>0.23</b>	<b>0.01</b>	<b>0.24</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>		<b>192.73</b>		<b>0.01</b>			<b>192.97</b>

### 3.5 Building Construction - 2013

#### 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	5.17	34.66	23.45	0.04		2.28	2.28		2.28	2.28		4,040.62		0.46		4,050.31
<b>Total</b>	<b>5.17</b>	<b>34.66</b>	<b>23.45</b>	<b>0.04</b>		<b>2.28</b>	<b>2.28</b>		<b>2.28</b>	<b>2.28</b>		<b>4,040.62</b>		<b>0.46</b>		<b>4,050.31</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.28	2.88	1.86	0.00	0.16	0.10	0.26	0.01	0.10	0.12		470.48		0.01		470.77
Worker	0.75	0.74	8.72	0.01	1.72	0.06	1.78	0.06	0.06	0.12		1,439.03		0.09		1,440.84
<b>Total</b>	<b>1.03</b>	<b>3.62</b>	<b>10.58</b>	<b>0.01</b>	<b>1.88</b>	<b>0.16</b>	<b>2.04</b>	<b>0.07</b>	<b>0.16</b>	<b>0.24</b>		<b>1,909.51</b>		<b>0.10</b>		<b>1,911.61</b>

### 3.5 Building Construction - 2013

#### 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	1.58	3.81	24.38	0.04		0.27	0.27		0.27	0.27	0.00	4,040.62		0.46		4,050.31
<b>Total</b>	<b>1.58</b>	<b>3.81</b>	<b>24.38</b>	<b>0.04</b>		<b>0.27</b>	<b>0.27</b>		<b>0.27</b>	<b>0.27</b>	<b>0.00</b>	<b>4,040.62</b>		<b>0.46</b>		<b>4,050.31</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.28	2.88	1.86	0.00	0.16	0.10	0.26	0.01	0.10	0.12		470.48		0.01		470.77
Worker	0.75	0.74	8.72	0.01	1.72	0.06	1.78	0.06	0.06	0.12		1,439.03		0.09		1,440.84
<b>Total</b>	<b>1.03</b>	<b>3.62</b>	<b>10.58</b>	<b>0.01</b>	<b>1.88</b>	<b>0.16</b>	<b>2.04</b>	<b>0.07</b>	<b>0.16</b>	<b>0.24</b>		<b>1,909.51</b>		<b>0.10</b>		<b>1,911.61</b>

### 3.5 Building Construction - 2014

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.74	32.06	23.20	0.04		2.02	2.02		2.02	2.02		4,040.61		0.42		4,049.51
<b>Total</b>	<b>4.74</b>	<b>32.06</b>	<b>23.20</b>	<b>0.04</b>		<b>2.02</b>	<b>2.02</b>		<b>2.02</b>	<b>2.02</b>		<b>4,040.61</b>		<b>0.42</b>		<b>4,049.51</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.25	2.61	1.69	0.00	0.16	0.09	0.25	0.01	0.09	0.11		471.41		0.01		471.68
Worker	0.70	0.68	8.05	0.01	1.72	0.06	1.78	0.06	0.06	0.12		1,415.77		0.08		1,417.47
<b>Total</b>	<b>0.95</b>	<b>3.29</b>	<b>9.74</b>	<b>0.01</b>	<b>1.88</b>	<b>0.15</b>	<b>2.03</b>	<b>0.07</b>	<b>0.15</b>	<b>0.23</b>		<b>1,887.18</b>		<b>0.09</b>		<b>1,889.15</b>

### 3.5 Building Construction - 2014

#### 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	1.58	3.81	24.38	0.04		0.27	0.27		0.27	0.27	0.00	4,040.61		0.42		4,049.51
<b>Total</b>	<b>1.58</b>	<b>3.81</b>	<b>24.38</b>	<b>0.04</b>		<b>0.27</b>	<b>0.27</b>		<b>0.27</b>	<b>0.27</b>	<b>0.00</b>	<b>4,040.61</b>		<b>0.42</b>		<b>4,049.51</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.25	2.61	1.69	0.00	0.16	0.09	0.25	0.01	0.09	0.11		471.41		0.01		471.68
Worker	0.70	0.68	8.05	0.01	1.72	0.06	1.78	0.06	0.06	0.12		1,415.77		0.08		1,417.47
<b>Total</b>	<b>0.95</b>	<b>3.29</b>	<b>9.74</b>	<b>0.01</b>	<b>1.88</b>	<b>0.15</b>	<b>2.03</b>	<b>0.07</b>	<b>0.15</b>	<b>0.23</b>		<b>1,887.18</b>		<b>0.09</b>		<b>1,889.15</b>

### 3.6 Paving - 2014

#### 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	5.20	32.09	20.70	0.03		2.74	2.74		2.74	2.74		2,917.65		0.47		2,927.48
Paving	0.00					0.00	0.00		0.00	0.00						0.00
<b>Total</b>	<b>5.20</b>	<b>32.09</b>	<b>20.70</b>	<b>0.03</b>		<b>2.74</b>	<b>2.74</b>		<b>2.74</b>	<b>2.74</b>		<b>2,917.65</b>		<b>0.47</b>		<b>2,927.48</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.09	0.09	1.08	0.00	0.23	0.01	0.24	0.01	0.01	0.02		189.61		0.01		189.84
<b>Total</b>	<b>0.09</b>	<b>0.09</b>	<b>1.08</b>	<b>0.00</b>	<b>0.23</b>	<b>0.01</b>	<b>0.24</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>		<b>189.61</b>		<b>0.01</b>		<b>189.84</b>

### 3.6 Paving - 2014

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.87	1.54	19.00	0.03		0.08	0.08		0.08	0.08	0.00	2,917.65		0.47		2,927.48
Paving	0.00					0.00	0.00		0.00	0.00						0.00
<b>Total</b>	<b>0.87</b>	<b>1.54</b>	<b>19.00</b>	<b>0.03</b>		<b>0.08</b>	<b>0.08</b>		<b>0.08</b>	<b>0.08</b>	<b>0.00</b>	<b>2,917.65</b>		<b>0.47</b>		<b>2,927.48</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.09	0.09	1.08	0.00	0.23	0.01	0.24	0.01	0.01	0.02		189.61		0.01		189.84
<b>Total</b>	<b>0.09</b>	<b>0.09</b>	<b>1.08</b>	<b>0.00</b>	<b>0.23</b>	<b>0.01</b>	<b>0.24</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>		<b>189.61</b>		<b>0.01</b>		<b>189.84</b>

### 3.7 Architectural Coating - 2014

#### 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	60.56					0.00	0.00		0.00	0.00						0.00
Off-Road	0.45	2.77	1.92	0.00		0.24	0.24		0.24	0.24		281.19		0.04		282.03
<b>Total</b>	<b>61.01</b>	<b>2.77</b>	<b>1.92</b>	<b>0.00</b>		<b>0.24</b>	<b>0.24</b>		<b>0.24</b>	<b>0.24</b>		<b>281.19</b>		<b>0.04</b>		<b>282.03</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.14	0.13	1.58	0.00	0.34	0.01	0.35	0.01	0.01	0.02		278.10		0.02		278.43
<b>Total</b>	<b>0.14</b>	<b>0.13</b>	<b>1.58</b>	<b>0.00</b>	<b>0.34</b>	<b>0.01</b>	<b>0.35</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>		<b>278.10</b>		<b>0.02</b>		<b>278.43</b>

### 3.7 Architectural Coating - 2014

#### 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	60.56					0.00	0.00		0.00	0.00						0.00
Off-Road	0.08	0.15	1.83	0.00		0.01	0.01		0.01	0.01	0.00	281.19		0.04		282.03
<b>Total</b>	<b>60.64</b>	<b>0.15</b>	<b>1.83</b>	<b>0.00</b>		<b>0.01</b>	<b>0.01</b>		<b>0.01</b>	<b>0.01</b>	<b>0.00</b>	<b>281.19</b>		<b>0.04</b>		<b>282.03</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.14	0.13	1.58	0.00	0.34	0.01	0.35	0.01	0.01	0.02		278.10		0.02		278.43
<b>Total</b>	<b>0.14</b>	<b>0.13</b>	<b>1.58</b>	<b>0.00</b>	<b>0.34</b>	<b>0.01</b>	<b>0.35</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>		<b>278.10</b>		<b>0.02</b>		<b>278.43</b>

### 4.0 Mobile Detail

#### 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	5.77	14.20	57.30	0.11	11.37	0.66	12.03	0.39	0.66	1.06		10,653.39		0.39		10,661.53
Unmitigated	5.77	14.20	57.30	0.11	11.37	0.66	12.03	0.39	0.66	1.06		10,653.39		0.39		10,661.53
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	605.15	581.49	581.49	1,992,982	1,992,982
Apartments Low Rise	425.60	408.96	408.96	1,401,658	1,401,658
<b>Total</b>	<b>1,030.75</b>	<b>990.45</b>	<b>990.45</b>	<b>3,394,640</b>	<b>3,394,640</b>

#### 4.3 Trip Type Information

Land Use	Miles			Trip %		
	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
Apartments Low Rise	12.70	7.00	9.50	40.20	19.20	40.60
Apartments Low Rise	12.70	7.00	9.50	40.20	19.20	40.60

## 5.0 Energy Detail

### 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	0.09	0.74	0.31	0.00		0.00	0.06		0.00	0.06		940.57		0.02	0.02	946.30
NaturalGas Unmitigated	0.09	0.74	0.31	0.00		0.00	0.06		0.00	0.06		940.57		0.02	0.02	946.30
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

### 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	lb/day										lb/day					
Apartments Low Rise	3301.1	0.04	0.30	0.13	0.00		0.00	0.02		0.00	0.02		388.37		0.01	0.01	390.73
Apartments Low Rise	4693.76	0.05	0.43	0.18	0.00		0.00	0.03		0.00	0.03		552.21		0.01	0.01	555.57
<b>Total</b>		<b>0.09</b>	<b>0.73</b>	<b>0.31</b>	<b>0.00</b>		<b>0.00</b>	<b>0.05</b>		<b>0.00</b>	<b>0.05</b>		<b>940.58</b>		<b>0.02</b>	<b>0.02</b>	<b>946.30</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	lb/day										lb/day					
Apartments Low Rise	4.69376	0.05	0.43	0.18	0.00		0.00	0.03		0.00	0.03		552.21		0.01	0.01	555.57
Apartments Low Rise	3.3011	0.04	0.30	0.13	0.00		0.00	0.02		0.00	0.02		388.37		0.01	0.01	390.73
<b>Total</b>		<b>0.09</b>	<b>0.73</b>	<b>0.31</b>	<b>0.00</b>		<b>0.00</b>	<b>0.05</b>		<b>0.00</b>	<b>0.05</b>		<b>940.58</b>		<b>0.02</b>	<b>0.02</b>	<b>946.30</b>

## 6.0 Area Detail

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### 6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.82	0.15	13.19	0.00		0.00	0.07		0.00	0.07	0.00	23.31		0.02	0.00	23.81
Unmitigated	3.82	0.15	13.19	0.00		0.00	0.07		0.00	0.07	0.00	23.31		0.02	0.00	23.81
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

## 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	0.33					0.00	0.00		0.00	0.00						0.00
Consumer Products	3.07					0.00	0.00		0.00	0.00						0.00
Hearth	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
Landscaping	0.42	0.15	13.19	0.00		0.00	0.07		0.00	0.07		23.31		0.02		23.81
<b>Total</b>	<b>3.82</b>	<b>0.15</b>	<b>13.19</b>	<b>0.00</b>		<b>0.00</b>	<b>0.07</b>		<b>0.00</b>	<b>0.07</b>	<b>0.00</b>	<b>23.31</b>		<b>0.02</b>	<b>0.00</b>	<b>23.81</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	lb/day										lb/day					
Architectural Coating	0.33					0.00	0.00		0.00	0.00						0.00
Consumer Products	3.07					0.00	0.00		0.00	0.00						0.00
Hearth	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
Landscaping	0.42	0.15	13.19	0.00		0.00	0.07		0.00	0.07		23.31		0.02		23.81
<b>Total</b>	<b>3.82</b>	<b>0.15</b>	<b>13.19</b>	<b>0.00</b>		<b>0.00</b>	<b>0.07</b>		<b>0.00</b>	<b>0.07</b>	<b>0.00</b>	<b>23.31</b>		<b>0.02</b>	<b>0.00</b>	<b>23.81</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Vegetation

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**Malibu Housing Element**  
**Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric
Apartments Low Rise	57	Dwelling Unit

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Utility Company</b>	Southern California Edison
<b>Climate Zone</b>	8	<b>Precipitation Freq (Days)</b>	33		

**1.3 User Entered Comments**

- Project Characteristics -
- Land Use - Actual lot size entered.
- Construction Phase -
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment - No demo is required.
- Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - Trip generation modified to reflect traffic study.

Woodstoves - High density affordable housing assumed to have no hearths.

Water And Wastewater - Sites would be solely served by septic.

Construction Off-road Equipment Mitigation - 27.5% reduction each watering, 3 waterings equals 82.5% reduction.

Area Mitigation - High density affordable housing assumed to have no hearths.

## **2.0 Emissions Summary**

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## 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					
2013	45.08	38.54	24.68	0.04	6.71	2.30	8.65	3.32	2.30	5.26	0.00	4,113.50	0.00	0.50	0.00	4,124.05
2014	45.04	2.82	2.49	0.00	0.12	0.25	0.37	0.00	0.25	0.25	0.00	382.32	0.00	0.05	0.00	383.28
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

### 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					
2013	44.68	8.71	25.02	0.04	1.30	0.69	1.41	0.59	0.69	0.72	0.00	4,113.50	0.00	0.50	0.00	4,124.05
2014	44.68	0.20	2.41	0.00	0.12	0.01	0.13	0.00	0.01	0.02	0.00	382.32	0.00	0.05	0.00	383.28
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.41	0.06	4.85	0.00		0.00	0.03		0.00	0.03	0.00	8.57		0.01	0.00	8.76
Energy	0.03	0.27	0.12	0.00		0.00	0.02		0.00	0.02		345.89		0.01	0.01	347.99
Mobile	2.12	5.22	21.07	0.04	4.18	0.24	4.42	0.14	0.24	0.39		3,917.70		0.14		3,920.69
<b>Total</b>	<b>3.56</b>	<b>5.55</b>	<b>26.04</b>	<b>0.04</b>	<b>4.18</b>	<b>0.24</b>	<b>4.47</b>	<b>0.14</b>	<b>0.24</b>	<b>0.44</b>	<b>0.00</b>	<b>4,272.16</b>		<b>0.16</b>	<b>0.01</b>	<b>4,277.44</b>

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.41	0.06	4.85	0.00		0.00	0.03		0.00	0.03	0.00	8.57		0.01	0.00	8.76
Energy	0.03	0.27	0.12	0.00		0.00	0.02		0.00	0.02		345.89		0.01	0.01	347.99
Mobile	2.12	5.22	21.07	0.04	4.18	0.24	4.42	0.14	0.24	0.39		3,917.70		0.14		3,920.69
<b>Total</b>	<b>3.56</b>	<b>5.55</b>	<b>26.04</b>	<b>0.04</b>	<b>4.18</b>	<b>0.24</b>	<b>4.47</b>	<b>0.14</b>	<b>0.24</b>	<b>0.44</b>	<b>0.00</b>	<b>4,272.16</b>		<b>0.16</b>	<b>0.01</b>	<b>4,277.44</b>

## 3.0 Construction Detail

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

### 3.2 Demolition - 2013

#### 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	5.07	38.45	23.67	0.04		2.29	2.29		2.29	2.29		3,946.47		0.46		3,956.03
<b>Total</b>	<b>5.07</b>	<b>38.45</b>	<b>23.67</b>	<b>0.04</b>		<b>2.29</b>	<b>2.29</b>		<b>2.29</b>	<b>2.29</b>		<b>3,946.47</b>		<b>0.46</b>		<b>3,956.03</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.09	0.09	1.01	0.00	0.20	0.01	0.21	0.01	0.01	0.01		167.03		0.01		167.24
<b>Total</b>	<b>0.09</b>	<b>0.09</b>	<b>1.01</b>	<b>0.00</b>	<b>0.20</b>	<b>0.01</b>	<b>0.21</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>		<b>167.03</b>		<b>0.01</b>		<b>167.24</b>

### 3.2 Demolition - 2013

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.89	1.77	16.26	0.04		0.09	0.09		0.09	0.09	0.00	3,946.47		0.46		3,956.03
<b>Total</b>	<b>0.89</b>	<b>1.77</b>	<b>16.26</b>	<b>0.04</b>		<b>0.09</b>	<b>0.09</b>		<b>0.09</b>	<b>0.09</b>	<b>0.00</b>	<b>3,946.47</b>		<b>0.46</b>		<b>3,956.03</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.09	0.09	1.01	0.00	0.20	0.01	0.21	0.01	0.01	0.01		167.03		0.01		167.24
<b>Total</b>	<b>0.09</b>	<b>0.09</b>	<b>1.01</b>	<b>0.00</b>	<b>0.20</b>	<b>0.01</b>	<b>0.21</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>		<b>167.03</b>		<b>0.01</b>		<b>167.24</b>

### 3.3 Site Preparation - 2013

#### 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					1.59	0.00	1.59	0.00	0.00	0.00						0.00
Off-Road	4.20	34.71	18.00	0.04		1.65	1.65		1.65	1.65		3,917.77		0.37		3,925.62
<b>Total</b>	<b>4.20</b>	<b>34.71</b>	<b>18.00</b>	<b>0.04</b>	<b>1.59</b>	<b>1.65</b>	<b>3.24</b>	<b>0.00</b>	<b>1.65</b>	<b>1.65</b>		<b>3,917.77</b>		<b>0.37</b>		<b>3,925.62</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.05	0.05	0.62	0.00	0.12	0.00	0.13	0.00	0.00	0.01		102.79		0.01		102.92
<b>Total</b>	<b>0.05</b>	<b>0.05</b>	<b>0.62</b>	<b>0.00</b>	<b>0.12</b>	<b>0.00</b>	<b>0.13</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>		<b>102.79</b>		<b>0.01</b>		<b>102.92</b>

### 3.3 Site Preparation - 2013

#### 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					0.28	0.00	0.28	0.00	0.00	0.00						0.00
Off-Road	0.35	0.71	8.80	0.04		0.04	0.04		0.04	0.04	0.00	3,917.77		0.37		3,925.62
<b>Total</b>	<b>0.35</b>	<b>0.71</b>	<b>8.80</b>	<b>0.04</b>	<b>0.28</b>	<b>0.04</b>	<b>0.32</b>	<b>0.00</b>	<b>0.04</b>	<b>0.04</b>	<b>0.00</b>	<b>3,917.77</b>		<b>0.37</b>		<b>3,925.62</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.05	0.05	0.62	0.00	0.12	0.00	0.13	0.00	0.00	0.01		102.79		0.01		102.92
<b>Total</b>	<b>0.05</b>	<b>0.05</b>	<b>0.62</b>	<b>0.00</b>	<b>0.12</b>	<b>0.00</b>	<b>0.13</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>		<b>102.79</b>		<b>0.01</b>		<b>102.92</b>

### 3.4 Grading - 2013

#### 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					6.55	0.00	6.55	3.31	0.00	3.31							0.00
Off-Road	4.70	37.12	22.15	0.04		1.94	1.94		1.94	1.94		3,827.58		0.42			3,836.44
<b>Total</b>	<b>4.70</b>	<b>37.12</b>	<b>22.15</b>	<b>0.04</b>	<b>6.55</b>	<b>1.94</b>	<b>8.49</b>	<b>3.31</b>	<b>1.94</b>	<b>5.25</b>		<b>3,827.58</b>		<b>0.42</b>			<b>3,836.44</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00			0.00
Vendor	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
Worker	0.07	0.07	0.78	0.00	0.15	0.01	0.16	0.01	0.01	0.01		128.48		0.01			128.65
<b>Total</b>	<b>0.07</b>	<b>0.07</b>	<b>0.78</b>	<b>0.00</b>	<b>0.15</b>	<b>0.01</b>	<b>0.16</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>		<b>128.48</b>		<b>0.01</b>			<b>128.65</b>

### 3.4 Grading - 2013

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.15	0.00	1.15	0.58	0.00	0.58						0.00
Off-Road	0.98	2.02	19.34	0.04		0.10	0.10		0.10	0.10	0.00	3,827.58		0.42		3,836.44
<b>Total</b>	<b>0.98</b>	<b>2.02</b>	<b>19.34</b>	<b>0.04</b>	<b>1.15</b>	<b>0.10</b>	<b>1.25</b>	<b>0.58</b>	<b>0.10</b>	<b>0.68</b>	<b>0.00</b>	<b>3,827.58</b>		<b>0.42</b>		<b>3,836.44</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.07	0.07	0.78	0.00	0.15	0.01	0.16	0.01	0.01	0.01		128.48		0.01		128.65
<b>Total</b>	<b>0.07</b>	<b>0.07</b>	<b>0.78</b>	<b>0.00</b>	<b>0.15</b>	<b>0.01</b>	<b>0.16</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>		<b>128.48</b>		<b>0.01</b>		<b>128.65</b>

### 3.5 Building Construction - 2013

#### 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	5.20	28.63	19.52	0.04		1.88	1.88		1.88	1.88		3,233.11		0.47		3,242.90
<b>Total</b>	<b>5.20</b>	<b>28.63</b>	<b>19.52</b>	<b>0.04</b>		<b>1.88</b>	<b>1.88</b>		<b>1.88</b>	<b>1.88</b>		<b>3,233.11</b>		<b>0.47</b>		<b>3,242.90</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.10	1.02	0.66	0.00	0.06	0.04	0.09	0.00	0.04	0.04		166.05		0.00		166.15
Worker	0.28	0.27	3.19	0.01	0.63	0.02	0.65	0.02	0.02	0.05		526.79		0.03		527.45
<b>Total</b>	<b>0.38</b>	<b>1.29</b>	<b>3.85</b>	<b>0.01</b>	<b>0.69</b>	<b>0.06</b>	<b>0.74</b>	<b>0.02</b>	<b>0.06</b>	<b>0.09</b>		<b>692.84</b>		<b>0.03</b>		<b>693.60</b>

### 3.5 Building Construction - 2013

#### 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	2.99	7.43	21.17	0.04		0.63	0.63		0.63	0.63	0.00	3,233.11		0.47		3,242.90
<b>Total</b>	<b>2.99</b>	<b>7.43</b>	<b>21.17</b>	<b>0.04</b>		<b>0.63</b>	<b>0.63</b>		<b>0.63</b>	<b>0.63</b>	<b>0.00</b>	<b>3,233.11</b>		<b>0.47</b>		<b>3,242.90</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.10	1.02	0.66	0.00	0.06	0.04	0.09	0.00	0.04	0.04		166.05		0.00		166.15
Worker	0.28	0.27	3.19	0.01	0.63	0.02	0.65	0.02	0.02	0.05		526.79		0.03		527.45
<b>Total</b>	<b>0.38</b>	<b>1.29</b>	<b>3.85</b>	<b>0.01</b>	<b>0.69</b>	<b>0.06</b>	<b>0.74</b>	<b>0.02</b>	<b>0.06</b>	<b>0.09</b>		<b>692.84</b>		<b>0.03</b>		<b>693.60</b>

### 3.6 Paving - 2013

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.16	25.92	16.81	0.03		2.21	2.21		2.21	2.21		2,393.42		0.37		2,401.25
Paving	0.00					0.00	0.00		0.00	0.00						0.00
<b>Total</b>	<b>4.16</b>	<b>25.92</b>	<b>16.81</b>	<b>0.03</b>		<b>2.21</b>	<b>2.21</b>		<b>2.21</b>	<b>2.21</b>		<b>2,393.42</b>		<b>0.37</b>		<b>2,401.25</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.10	0.10	1.17	0.00	0.23	0.01	0.24	0.01	0.01	0.02		192.73		0.01		192.97
<b>Total</b>	<b>0.10</b>	<b>0.10</b>	<b>1.17</b>	<b>0.00</b>	<b>0.23</b>	<b>0.01</b>	<b>0.24</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>		<b>192.73</b>		<b>0.01</b>		<b>192.97</b>

### 3.6 Paving - 2013

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.70	1.24	15.25	0.03		0.06	0.06		0.06	0.06	0.00	2,393.42		0.37		2,401.25
Paving	0.00					0.00	0.00		0.00	0.00						0.00
<b>Total</b>	<b>0.70</b>	<b>1.24</b>	<b>15.25</b>	<b>0.03</b>		<b>0.06</b>	<b>0.06</b>		<b>0.06</b>	<b>0.06</b>	<b>0.00</b>	<b>2,393.42</b>		<b>0.37</b>		<b>2,401.25</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.10	0.10	1.17	0.00	0.23	0.01	0.24	0.01	0.01	0.02		192.73		0.01		192.97
<b>Total</b>	<b>0.10</b>	<b>0.10</b>	<b>1.17</b>	<b>0.00</b>	<b>0.23</b>	<b>0.01</b>	<b>0.24</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>		<b>192.73</b>		<b>0.01</b>		<b>192.97</b>

### 3.7 Architectural Coating - 2013

#### 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	44.54					0.00	0.00		0.00	0.00						0.00
Off-Road	0.49	2.96	1.94	0.00		0.27	0.27		0.27	0.27		281.19		0.04		282.10
<b>Total</b>	<b>45.03</b>	<b>2.96</b>	<b>1.94</b>	<b>0.00</b>		<b>0.27</b>	<b>0.27</b>		<b>0.27</b>	<b>0.27</b>		<b>281.19</b>		<b>0.04</b>		<b>282.10</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.05	0.05	0.62	0.00	0.12	0.00	0.13	0.00	0.00	0.01		102.79		0.01		102.92
<b>Total</b>	<b>0.05</b>	<b>0.05</b>	<b>0.62</b>	<b>0.00</b>	<b>0.12</b>	<b>0.00</b>	<b>0.13</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>		<b>102.79</b>		<b>0.01</b>		<b>102.92</b>

### 3.7 Architectural Coating - 2013

#### 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	44.54					0.00	0.00		0.00	0.00						0.00
Off-Road	0.08	0.15	1.83	0.00		0.01	0.01		0.01	0.01	0.00	281.19		0.04		282.10
<b>Total</b>	<b>44.62</b>	<b>0.15</b>	<b>1.83</b>	<b>0.00</b>		<b>0.01</b>	<b>0.01</b>		<b>0.01</b>	<b>0.01</b>	<b>0.00</b>	<b>281.19</b>		<b>0.04</b>		<b>282.10</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.05	0.05	0.62	0.00	0.12	0.00	0.13	0.00	0.00	0.01		102.79		0.01		102.92
<b>Total</b>	<b>0.05</b>	<b>0.05</b>	<b>0.62</b>	<b>0.00</b>	<b>0.12</b>	<b>0.00</b>	<b>0.13</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>		<b>102.79</b>		<b>0.01</b>		<b>102.92</b>

### 3.7 Architectural Coating - 2014

#### 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	44.54					0.00	0.00		0.00	0.00						0.00
Off-Road	0.45	2.77	1.92	0.00		0.24	0.24		0.24	0.24		281.19		0.04		282.03
<b>Total</b>	<b>44.99</b>	<b>2.77</b>	<b>1.92</b>	<b>0.00</b>		<b>0.24</b>	<b>0.24</b>		<b>0.24</b>	<b>0.24</b>		<b>281.19</b>		<b>0.04</b>		<b>282.03</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.05	0.05	0.57	0.00	0.12	0.00	0.13	0.00	0.00	0.01		101.13		0.01		101.25
<b>Total</b>	<b>0.05</b>	<b>0.05</b>	<b>0.57</b>	<b>0.00</b>	<b>0.12</b>	<b>0.00</b>	<b>0.13</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>		<b>101.13</b>		<b>0.01</b>		<b>101.25</b>

### 3.7 Architectural Coating - 2014

#### 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	44.54					0.00	0.00		0.00	0.00						0.00
Off-Road	0.08	0.15	1.83	0.00		0.01	0.01		0.01	0.01	0.00	281.19		0.04		282.03
<b>Total</b>	<b>44.62</b>	<b>0.15</b>	<b>1.83</b>	<b>0.00</b>		<b>0.01</b>	<b>0.01</b>		<b>0.01</b>	<b>0.01</b>	<b>0.00</b>	<b>281.19</b>		<b>0.04</b>		<b>282.03</b>

#### 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	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
Worker	0.05	0.05	0.57	0.00	0.12	0.00	0.13	0.00	0.00	0.01		101.13		0.01		101.25
<b>Total</b>	<b>0.05</b>	<b>0.05</b>	<b>0.57</b>	<b>0.00</b>	<b>0.12</b>	<b>0.00</b>	<b>0.13</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>		<b>101.13</b>		<b>0.01</b>		<b>101.25</b>

### 4.0 Mobile Detail

#### 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	2.12	5.22	21.07	0.04	4.18	0.24	4.42	0.14	0.24	0.39		3,917.70		0.14		3,920.69
Unmitigated	2.12	5.22	21.07	0.04	4.18	0.24	4.42	0.14	0.24	0.39		3,917.70		0.14		3,920.69
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	379.05	364.23	364.23	1,248,352	1,248,352
<b>Total</b>	<b>379.05</b>	<b>364.23</b>	<b>364.23</b>	<b>1,248,352</b>	<b>1,248,352</b>

#### 4.3 Trip Type Information

Land Use	Miles			Trip %		
	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
Apartments Low Rise	12.70	7.00	9.50	40.20	19.20	40.60

### 5.0 Energy Detail

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### 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	0.03	0.27	0.12	0.00		0.00	0.02		0.00	0.02		345.89		0.01	0.01	347.99
NaturalGas Unmitigated	0.03	0.27	0.12	0.00		0.00	0.02		0.00	0.02		345.89		0.01	0.01	347.99
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

### 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	lb/day										lb/day					
Apartments Low Rise	2940.05	0.03	0.27	0.12	0.00		0.00	0.02		0.00	0.02		345.89		0.01	0.01	347.99
<b>Total</b>		<b>0.03</b>	<b>0.27</b>	<b>0.12</b>	<b>0.00</b>		<b>0.00</b>	<b>0.02</b>		<b>0.00</b>	<b>0.02</b>		<b>345.89</b>		<b>0.01</b>	<b>0.01</b>	<b>347.99</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	lb/day										lb/day					
Apartments Low Rise	2.94005	0.03	0.27	0.12	0.00		0.00	0.02		0.00	0.02		345.89		0.01	0.01	347.99
<b>Total</b>		<b>0.03</b>	<b>0.27</b>	<b>0.12</b>	<b>0.00</b>		<b>0.00</b>	<b>0.02</b>		<b>0.00</b>	<b>0.02</b>		<b>345.89</b>		<b>0.01</b>	<b>0.01</b>	<b>347.99</b>

## 6.0 Area Detail

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### 6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.41	0.06	4.85	0.00		0.00	0.03		0.00	0.03	0.00	8.57		0.01	0.00	8.76
Unmitigated	1.41	0.06	4.85	0.00		0.00	0.03		0.00	0.03	0.00	8.57		0.01	0.00	8.76
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

## 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	0.12					0.00	0.00		0.00	0.00						0.00
Consumer Products	1.13					0.00	0.00		0.00	0.00						0.00
Hearth	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
Landscaping	0.16	0.06	4.85	0.00		0.00	0.03		0.00	0.03		8.57		0.01		8.76
<b>Total</b>	<b>1.41</b>	<b>0.06</b>	<b>4.85</b>	<b>0.00</b>		<b>0.00</b>	<b>0.03</b>		<b>0.00</b>	<b>0.03</b>	<b>0.00</b>	<b>8.57</b>		<b>0.01</b>	<b>0.00</b>	<b>8.76</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	lb/day										lb/day					
Architectural Coating	0.12					0.00	0.00		0.00	0.00						0.00
Consumer Products	1.13					0.00	0.00		0.00	0.00						0.00
Hearth	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
Landscaping	0.16	0.06	4.85	0.00		0.00	0.03		0.00	0.03		8.57		0.01		8.76
<b>Total</b>	<b>1.41</b>	<b>0.06</b>	<b>4.85</b>	<b>0.00</b>		<b>0.00</b>	<b>0.03</b>		<b>0.00</b>	<b>0.03</b>	<b>0.00</b>	<b>8.57</b>		<b>0.01</b>	<b>0.00</b>	<b>8.76</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Vegetation

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**Greenhouse Gas Emission Worksheet**  
**N2O Mobile Emissions**

Malibu Housing Element

From URBEMIS 2007 Vehicle Fleet Mix Output:

Annual VMT: 4,642,992

Vehicle Type	Percent Type	CH4		N2O	
		Emission Factor (g/mile)*	Emission (g/mile)**	Emission Factor (g/mile)*	Emission (g/mile)**
Light Auto	53.1%	0.04	0.02124	0.04	0.02124
Light Truck < 3750 lbs	6.7%	0.05	0.00335	0.06	0.00402
Light Truck 3751-5750 lbs	23.1%	0.05	0.01155	0.06	0.01386
Med Truck 5751-8500 lbs	10.2%	0.12	0.01224	0.2	0.0204
Lite-Heavy Truck 8501-10,000 lbs	1.5%	0.12	0.0018	0.2	0.003
Lite-Heavy Truck 10,001-14,000 lbs	0.5%	0.09	0.00045	0.125	0.000625
Med-Heavy Truck 14,001-33,000 lbs	0.9%	0.06	0.00054	0.05	0.00045
Heavy-Heavy Truck 33,001-60,000 lbs	0.5%	0.06	0.0003	0.05	0.00025
Other Bus	0.1%	0.06	0.00006	0.05	0.00005
Urban Bus	0.1%	0.06	0.00006	0.05	0.00005
Motorcycle	2.4%	0.09	0.00216	0.01	0.00024
School Bus	0.1%	0.06	0.00006	0.05	0.00005
Motor Home	0.8%	0.09	0.00072	0.125	0.001
<b>Total</b>	<b>100.0%</b>		<b>0.05453</b>		<b>0.065235</b>

**Total Emissions (metric tons) =**

**Emission Factor by Vehicle Mix (g/mi) x Annual VMT(mi) x 0.000001 metric tons/g**

**Conversion to Carbon Dioxide Equivalency (CO2e) Units based on Global Warming Potential (GWP)**

CH4 21 GWP  
 N2O 310 GWP  
 1 ton (short, US) = 0.90718474 metric ton

**Annual Mobile Emissions:**

	Total Emissions	Total CO2e units
N2O Emissions:	0.3029 metric tons N2O	94 metric tons CO2e
<b>Project Total:</b>		<b>94 metric tons CO2e</b>

**References**

- \* from Table C.4: Methane and Nitrous Oxide Emission Factors for Mobile Sources by Vehicle and Fuel Type (g/mile). in California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009. Assume Model year 2000-present, gasoline fueled.
- \*\* Source: California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.
- \*\*\* From URBEMIS 2007 results for mobile sources











