

**VVR, LLC (2)**  
**San Bernardino-Mojave Desert County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	44.49	1000sqft	1.02	44,490.00	0
Parking Lot	197.62	1000sqft	4.54	197,620.00	0
Fast Food Restaurant w/o Drive Thru	4.10	1000sqft	0.09	4,100.00	0
Fast Food Restaurant with Drive Thru	2.35	1000sqft	0.05	2,350.00	0
Convenience Market With Gas Pumps	3.96	1000sqft	0.09	3,960.00	0
Hardware/Paint Store	17.24	1000sqft	0.40	17,240.00	0
Strip Mall	41.38	1000sqft	0.95	41,380.00	0
Supermarket	12.36	1000sqft	0.28	12,360.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2017
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	630.89	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -

Land Use - 8.42 acres with multiple commercial land uses, onsite and offsite improvement, to be constructed in 8 phases.

Construction Phase - No demolition will occur as part of implementation of the proposed development. Final Construction Year anticipated to be 2024, due to proposed 8 phases development implementation.

Trips and VMT - No demolition will occur as part of project implementation.

Demolition - No Demolition will occur as part of implementation of the proposed project.

Grading - Earthwork anticipated to be balanced.

Construction Off-road Equipment Mitigation - Additional 10% Reduction added for 3 times site watering, based upon % reduction populated for 2 times site watering.

Mobile Land Use Mitigation - Road improvements will be constructed as a part of project implementation, including sidewalk adjacent to the project site.

Area Mitigation -

Water Mitigation -

Vehicle Trips - 43% trip rates reduction factored in to comply with approved generation rates with Traffic Study.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	65
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	65
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	01/13/2017	02/10/2017
tblConstructionPhase	PhaseStartDate	12/31/2016	01/28/2017
tblProjectCharacteristics	OperationalYear	2014	2017
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblVehicleTrips	ST_TR	1,448.33	825.54
tblVehicleTrips	ST_TR	696.00	396.72
tblVehicleTrips	ST_TR	722.03	411.55
tblVehicleTrips	ST_TR	82.52	47.03
tblVehicleTrips	ST_TR	42.04	23.96
tblVehicleTrips	ST_TR	177.59	101.22
tblVehicleTrips	SU_TR	1,182.08	673.78
tblVehicleTrips	SU_TR	500.00	285.00
tblVehicleTrips	SU_TR	542.72	309.35
tblVehicleTrips	SU_TR	68.65	39.13
tblVehicleTrips	SU_TR	20.43	11.64
tblVehicleTrips	SU_TR	166.44	94.87
tblVehicleTrips	WD_TR	845.60	481.99
tblVehicleTrips	WD_TR	716.00	408.12
tblVehicleTrips	WD_TR	496.12	282.78
tblVehicleTrips	WD_TR	51.29	29.23
tblVehicleTrips	WD_TR	44.32	25.26
tblVehicleTrips	WD_TR	102.24	58.27

## 2.0 Emissions Summary



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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.4165	3.0000e-005	3.0300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.7800e-003	5.7800e-003	2.0000e-005	0.0000	6.1200e-003
Energy	0.0118	0.1069	0.0898	6.4000e-004		8.1300e-003	8.1300e-003		8.1300e-003	8.1300e-003	0.0000	682.4800	682.4800	0.0283	7.5200e-003	685.4037
Mobile	4.9256	9.3351	57.0589	0.0483	2.9295	0.1161	3.0456	0.7834	0.1067	0.8901	0.0000	3,746.6972	3,746.6972	0.1739	0.0000	3,750.3485
Waste						0.0000	0.0000		0.0000	0.0000	79.2761	0.0000	79.2761	4.6851	0.0000	177.6628
Water						0.0000	0.0000		0.0000	0.0000	2.5751	39.8247	42.3998	0.2663	6.6200e-003	50.0458
<b>Total</b>	<b>6.3538</b>	<b>9.4421</b>	<b>57.1518</b>	<b>0.0489</b>	<b>2.9295</b>	<b>0.1243</b>	<b>3.0538</b>	<b>0.7834</b>	<b>0.1148</b>	<b>0.8982</b>	<b>81.8512</b>	<b>4,469.0076</b>	<b>4,550.8588</b>	<b>5.1535</b>	<b>0.0141</b>	<b>4,663.4670</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	1.4165	3.0000e-005	3.0300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.7800e-003	5.7800e-003	2.0000e-005	0.0000	6.1200e-003
Energy	0.0118	0.1069	0.0898	6.4000e-004		8.1300e-003	8.1300e-003		8.1300e-003	8.1300e-003	0.0000	682.4800	682.4800	0.0283	7.5200e-003	685.4037
Mobile	4.9174	9.2774	56.8728	0.0478	2.9002	0.1151	3.0153	0.7755	0.1057	0.8813	0.0000	3,712.2448	3,712.2448	0.1726	0.0000	3,715.8690
Waste						0.0000	0.0000		0.0000	0.0000	79.2761	0.0000	79.2761	4.6851	0.0000	177.6628
Water						0.0000	0.0000		0.0000	0.0000	2.5751	39.2403	41.8154	0.2662	6.6100e-003	49.4551
<b>Total</b>	<b>6.3456</b>	<b>9.3844</b>	<b>56.9656</b>	<b>0.0485</b>	<b>2.9002</b>	<b>0.1232</b>	<b>3.0234</b>	<b>0.7755</b>	<b>0.1139</b>	<b>0.8894</b>	<b>81.8512</b>	<b>4,433.9709</b>	<b>4,515.8220</b>	<b>5.1522</b>	<b>0.0141</b>	<b>4,628.3967</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.13</b>	<b>0.61</b>	<b>0.33</b>	<b>0.88</b>	<b>1.00</b>	<b>0.84</b>	<b>0.99</b>	<b>1.00</b>	<b>0.84</b>	<b>0.98</b>	<b>0.00</b>	<b>0.78</b>	<b>0.77</b>	<b>0.03</b>	<b>0.07</b>	<b>0.75</b>

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	12/30/2016	5	0	
2	Site Preparation	Site Preparation	1/28/2017	2/10/2017	5	10	
3	Grading	Grading	2/11/2017	3/10/2017	5	20	
4	Building Construction	Building Construction	3/11/2017	1/26/2018	5	230	
5	Paving	Paving	1/27/2018	2/23/2018	5	20	
6	Architectural Coating	Architectural Coating	2/24/2018	3/23/2018	5	20	

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

**Acres of Grading (Grading Phase): 10**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 197,713; Non-Residential Outdoor: 65,904 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**



Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	128.00	53.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	26.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

### 3.3 Site Preparation - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0242	0.2588	0.1970	2.0000e-004		0.0138	0.0138		0.0127	0.0127	0.0000	18.1577	18.1577	5.5600e-003	0.0000	18.2745
<b>Total</b>	<b>0.0242</b>	<b>0.2588</b>	<b>0.1970</b>	<b>2.0000e-004</b>	<b>0.0903</b>	<b>0.0138</b>	<b>0.1041</b>	<b>0.0497</b>	<b>0.0127</b>	<b>0.0623</b>	<b>0.0000</b>	<b>18.1577</b>	<b>18.1577</b>	<b>5.5600e-003</b>	<b>0.0000</b>	<b>18.2745</b>

### 3.3 Site Preparation - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	5.8000e-004	5.2000e-003	1.0000e-005	7.3000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6084	0.6084	4.0000e-005	0.0000	0.6093
<b>Total</b>	<b>3.1000e-004</b>	<b>5.8000e-004</b>	<b>5.2000e-003</b>	<b>1.0000e-005</b>	<b>7.3000e-004</b>	<b>0.0000</b>	<b>7.3000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.6084</b>	<b>0.6084</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6093</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0316	0.0000	0.0316	0.0174	0.0000	0.0174	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0242	0.2588	0.1970	2.0000e-004		0.0138	0.0138		0.0127	0.0127	0.0000	18.1577	18.1577	5.5600e-003	0.0000	18.2745
<b>Total</b>	<b>0.0242</b>	<b>0.2588</b>	<b>0.1970</b>	<b>2.0000e-004</b>	<b>0.0316</b>	<b>0.0138</b>	<b>0.0454</b>	<b>0.0174</b>	<b>0.0127</b>	<b>0.0301</b>	<b>0.0000</b>	<b>18.1577</b>	<b>18.1577</b>	<b>5.5600e-003</b>	<b>0.0000</b>	<b>18.2745</b>

### 3.3 Site Preparation - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	5.8000e-004	5.2000e-003	1.0000e-005	7.3000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6084	0.6084	4.0000e-005	0.0000	0.6093
<b>Total</b>	<b>3.1000e-004</b>	<b>5.8000e-004</b>	<b>5.2000e-003</b>	<b>1.0000e-005</b>	<b>7.3000e-004</b>	<b>0.0000</b>	<b>7.3000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.6084</b>	<b>0.6084</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6093</b>

### 3.4 Grading - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0346	0.3598	0.2538	3.0000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	27.6117	27.6117	8.4600e-003	0.0000	27.7893
<b>Total</b>	<b>0.0346</b>	<b>0.3598</b>	<b>0.2538</b>	<b>3.0000e-004</b>	<b>0.0655</b>	<b>0.0204</b>	<b>0.0859</b>	<b>0.0337</b>	<b>0.0188</b>	<b>0.0524</b>	<b>0.0000</b>	<b>27.6117</b>	<b>27.6117</b>	<b>8.4600e-003</b>	<b>0.0000</b>	<b>27.7893</b>

### 3.4 Grading - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	9.6000e-004	8.6600e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0141	1.0141	7.0000e-005	0.0000	1.0154	
<b>Total</b>	<b>5.1000e-004</b>	<b>9.6000e-004</b>	<b>8.6600e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>1.0000e-005</b>	<b>1.2200e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>1.0141</b>	<b>1.0141</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.0154</b>	

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0229	0.0000	0.0229	0.0118	0.0000	0.0118	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0346	0.3598	0.2538	3.0000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	27.6117	27.6117	8.4600e-003	0.0000	27.7893
<b>Total</b>	<b>0.0346</b>	<b>0.3598</b>	<b>0.2538</b>	<b>3.0000e-004</b>	<b>0.0229</b>	<b>0.0204</b>	<b>0.0433</b>	<b>0.0118</b>	<b>0.0188</b>	<b>0.0306</b>	<b>0.0000</b>	<b>27.6117</b>	<b>27.6117</b>	<b>8.4600e-003</b>	<b>0.0000</b>	<b>27.7893</b>

### 3.4 Grading - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	9.6000e-004	8.6600e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0141	1.0141	7.0000e-005	0.0000	1.0154
<b>Total</b>	<b>5.1000e-004</b>	<b>9.6000e-004</b>	<b>8.6600e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>1.0000e-005</b>	<b>1.2200e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>1.0141</b>	<b>1.0141</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.0154</b>

### 3.5 Building Construction - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3258	2.7726	1.9036	2.8100e-003		0.1870	0.1870		0.1757	0.1757	0.0000	251.4531	251.4531	0.0619	0.0000	252.7527
<b>Total</b>	<b>0.3258</b>	<b>2.7726</b>	<b>1.9036</b>	<b>2.8100e-003</b>		<b>0.1870</b>	<b>0.1870</b>		<b>0.1757</b>	<b>0.1757</b>	<b>0.0000</b>	<b>251.4531</b>	<b>251.4531</b>	<b>0.0619</b>	<b>0.0000</b>	<b>252.7527</b>

### 3.5 Building Construction - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0727	0.4109	1.0340	1.2100e-003	0.0360	0.0103	0.0463	0.0102	9.4400e-003	0.0197	0.0000	107.9269	107.9269	6.1000e-004	0.0000	107.9397
Worker	0.0456	0.0861	0.7760	1.2600e-003	0.1083	7.4000e-004	0.1090	0.0288	6.8000e-004	0.0295	0.0000	90.8593	90.8593	5.8600e-003	0.0000	90.9824
<b>Total</b>	<b>0.1183</b>	<b>0.4969</b>	<b>1.8100</b>	<b>2.4700e-003</b>	<b>0.1443</b>	<b>0.0110</b>	<b>0.1553</b>	<b>0.0390</b>	<b>0.0101</b>	<b>0.0491</b>	<b>0.0000</b>	<b>198.7862</b>	<b>198.7862</b>	<b>6.4700e-003</b>	<b>0.0000</b>	<b>198.9221</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3258	2.7726	1.9036	2.8100e-003		0.1870	0.1870		0.1757	0.1757	0.0000	251.4528	251.4528	0.0619	0.0000	252.7524
<b>Total</b>	<b>0.3258</b>	<b>2.7726</b>	<b>1.9036</b>	<b>2.8100e-003</b>		<b>0.1870</b>	<b>0.1870</b>		<b>0.1757</b>	<b>0.1757</b>	<b>0.0000</b>	<b>251.4528</b>	<b>251.4528</b>	<b>0.0619</b>	<b>0.0000</b>	<b>252.7524</b>

### 3.5 Building Construction - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0727	0.4109	1.0340	1.2100e-003	0.0360	0.0103	0.0463	0.0102	9.4400e-003	0.0197	0.0000	107.9269	107.9269	6.1000e-004	0.0000	107.9397
Worker	0.0456	0.0861	0.7760	1.2600e-003	0.1083	7.4000e-004	0.1090	0.0288	6.8000e-004	0.0295	0.0000	90.8593	90.8593	5.8600e-003	0.0000	90.9824
<b>Total</b>	<b>0.1183</b>	<b>0.4969</b>	<b>1.8100</b>	<b>2.4700e-003</b>	<b>0.1443</b>	<b>0.0110</b>	<b>0.1553</b>	<b>0.0390</b>	<b>0.0101</b>	<b>0.0491</b>	<b>0.0000</b>	<b>198.7862</b>	<b>198.7862</b>	<b>6.4700e-003</b>	<b>0.0000</b>	<b>198.9221</b>

### 3.5 Building Construction - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0267	0.2326	0.1753	2.7000e-004		0.0149	0.0149		0.0141	0.0141	0.0000	23.6770	23.6770	5.7900e-003	0.0000	23.7987
<b>Total</b>	<b>0.0267</b>	<b>0.2326</b>	<b>0.1753</b>	<b>2.7000e-004</b>		<b>0.0149</b>	<b>0.0149</b>		<b>0.0141</b>	<b>0.0141</b>	<b>0.0000</b>	<b>23.6770</b>	<b>23.6770</b>	<b>5.7900e-003</b>	<b>0.0000</b>	<b>23.7987</b>

### 3.5 Building Construction - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2100e-003	0.0350	0.0913	1.2000e-004	3.4300e-003	9.1000e-004	4.3400e-003	9.8000e-004	8.4000e-004	1.8100e-003	0.0000	10.1007	10.1007	6.0000e-005	0.0000	0.0000	10.1019
Worker	3.7300e-003	7.3900e-003	0.0658	1.2000e-004	0.0103	7.0000e-005	0.0104	2.7400e-003	6.0000e-005	2.8000e-003	0.0000	8.3265	8.3265	5.1000e-004	0.0000	0.0000	8.3372
<b>Total</b>	<b>9.9400e-003</b>	<b>0.0424</b>	<b>0.1571</b>	<b>2.4000e-004</b>	<b>0.0137</b>	<b>9.8000e-004</b>	<b>0.0147</b>	<b>3.7200e-003</b>	<b>9.0000e-004</b>	<b>4.6100e-003</b>	<b>0.0000</b>	<b>18.4272</b>	<b>18.4272</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>18.4391</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	0.0267	0.2326	0.1753	2.7000e-004		0.0149	0.0149		0.0141	0.0141	0.0000	23.6769	23.6769	5.7900e-003	0.0000	0.0000	23.7986
<b>Total</b>	<b>0.0267</b>	<b>0.2326</b>	<b>0.1753</b>	<b>2.7000e-004</b>		<b>0.0149</b>	<b>0.0149</b>		<b>0.0141</b>	<b>0.0141</b>	<b>0.0000</b>	<b>23.6769</b>	<b>23.6769</b>	<b>5.7900e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>23.7986</b>



### 3.5 Building Construction - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2100e-003	0.0350	0.0913	1.2000e-004	3.4300e-003	9.1000e-004	4.3400e-003	9.8000e-004	8.4000e-004	1.8100e-003	0.0000	10.1007	10.1007	6.0000e-005	0.0000	0.0000	10.1019
Worker	3.7300e-003	7.3900e-003	0.0658	1.2000e-004	0.0103	7.0000e-005	0.0104	2.7400e-003	6.0000e-005	2.8000e-003	0.0000	8.3265	8.3265	5.1000e-004	0.0000	0.0000	8.3372
<b>Total</b>	<b>9.9400e-003</b>	<b>0.0424</b>	<b>0.1571</b>	<b>2.4000e-004</b>	<b>0.0137</b>	<b>9.8000e-004</b>	<b>0.0147</b>	<b>3.7200e-003</b>	<b>9.0000e-004</b>	<b>4.6100e-003</b>	<b>0.0000</b>	<b>18.4272</b>	<b>18.4272</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>18.4391</b>

### 3.6 Paving - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	0.0161	0.1716	0.1449	2.2000e-004		9.3900e-003	9.3900e-003		8.6400e-003	8.6400e-003	0.0000	20.3687	20.3687	6.3400e-003	0.0000	0.0000	20.5019
Paving	5.9500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0221</b>	<b>0.1716</b>	<b>0.1449</b>	<b>2.2000e-004</b>		<b>9.3900e-003</b>	<b>9.3900e-003</b>		<b>8.6400e-003</b>	<b>8.6400e-003</b>	<b>0.0000</b>	<b>20.3687</b>	<b>20.3687</b>	<b>6.3400e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>20.5019</b>

### 3.6 Paving - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	8.7000e-004	7.7100e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9758	0.9758	6.0000e-005	0.0000	0.9770
<b>Total</b>	<b>4.4000e-004</b>	<b>8.7000e-004</b>	<b>7.7100e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>1.0000e-005</b>	<b>1.2200e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.9758</b>	<b>0.9758</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.9770</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0161	0.1716	0.1449	2.2000e-004		9.3900e-003	9.3900e-003		8.6400e-003	8.6400e-003	0.0000	20.3687	20.3687	6.3400e-003	0.0000	20.5019
Paving	5.9500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0221</b>	<b>0.1716</b>	<b>0.1449</b>	<b>2.2000e-004</b>		<b>9.3900e-003</b>	<b>9.3900e-003</b>		<b>8.6400e-003</b>	<b>8.6400e-003</b>	<b>0.0000</b>	<b>20.3687</b>	<b>20.3687</b>	<b>6.3400e-003</b>	<b>0.0000</b>	<b>20.5019</b>

### 3.6 Paving - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	8.7000e-004	7.7100e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9758	0.9758	6.0000e-005	0.0000	0.9770
<b>Total</b>	<b>4.4000e-004</b>	<b>8.7000e-004</b>	<b>7.7100e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>1.0000e-005</b>	<b>1.2200e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.9758</b>	<b>0.9758</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.9770</b>

### 3.7 Architectural Coating - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.5273					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0201	0.0185	3.0000e-005		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	2.5533	2.5533	2.4000e-004	0.0000	2.5584
<b>Total</b>	<b>1.5303</b>	<b>0.0201</b>	<b>0.0185</b>	<b>3.0000e-005</b>		<b>1.5100e-003</b>	<b>1.5100e-003</b>		<b>1.5100e-003</b>	<b>1.5100e-003</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.5584</b>

### 3.7 Architectural Coating - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.6000e-004	1.5000e-003	0.0134	2.0000e-005	2.1000e-003	1.0000e-005	2.1100e-003	5.6000e-004	1.0000e-005	5.7000e-004	0.0000	1.6913	1.6913	1.0000e-004	0.0000	1.6935
<b>Total</b>	<b>7.6000e-004</b>	<b>1.5000e-003</b>	<b>0.0134</b>	<b>2.0000e-005</b>	<b>2.1000e-003</b>	<b>1.0000e-005</b>	<b>2.1100e-003</b>	<b>5.6000e-004</b>	<b>1.0000e-005</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>1.6913</b>	<b>1.6913</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.6935</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.5273					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0201	0.0185	3.0000e-005		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	2.5533	2.5533	2.4000e-004	0.0000	2.5584
<b>Total</b>	<b>1.5303</b>	<b>0.0201</b>	<b>0.0185</b>	<b>3.0000e-005</b>		<b>1.5100e-003</b>	<b>1.5100e-003</b>		<b>1.5100e-003</b>	<b>1.5100e-003</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.5584</b>

### 3.7 Architectural Coating - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.6000e-004	1.5000e-003	0.0134	2.0000e-005	2.1000e-003	1.0000e-005	2.1100e-003	5.6000e-004	1.0000e-005	5.7000e-004	0.0000	1.6913	1.6913	1.0000e-004	0.0000	1.6935	
<b>Total</b>	<b>7.6000e-004</b>	<b>1.5000e-003</b>	<b>0.0134</b>	<b>2.0000e-005</b>	<b>2.1000e-003</b>	<b>1.0000e-005</b>	<b>2.1100e-003</b>	<b>5.6000e-004</b>	<b>1.0000e-005</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>1.6913</b>	<b>1.6913</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.6935</b>	

### 4.0 Operational Detail - Mobile

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#### 4.1 Mitigation Measures Mobile

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive 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					
Unmitigated	4.9256	9.3351	57.0589	0.0483	2.9295	0.1161	3.0456	0.7834	0.1067	0.8901	0.0000	3,746.6972	3,746.6972	0.1739	0.0000	3,750.3485
Mitigated	4.9174	9.2774	56.8728	0.0478	2.9002	0.1151	3.0153	0.7755	0.1057	0.8813	0.0000	3,712.2448	3,712.2448	0.1726	0.0000	3,715.8690

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market With Gas Pumps	1,908.68	3,269.14	2668.17	1,186,274	1,174,411
Fast Food Restaurant w/o Drive Thru	1,673.29	1,626.55	1168.50	2,571,243	2,545,530
Fast Food Restaurant with Drive Thru	664.53	967.14	726.97	669,615	662,919
Hardware/Paint Store	503.93	810.80	674.60	832,333	824,010
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	1,045.26	991.46	481.66	1,473,904	1,459,165
Supermarket	720.22	1,251.08	1172.59	978,975	969,185
<b>Total</b>	<b>6,515.91</b>	<b>8,916.17</b>	<b>6,892.50</b>	<b>7,712,344</b>	<b>7,635,220</b>

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market With Gas	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Fast Food Restaurant w/o Drive	9.50	7.30	7.30	1.50	79.50	19.00	51	37	12
Fast Food Restaurant with Drive	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
Hardware/Paint Store	9.50	7.30	7.30	13.60	67.40	19.00	45	29	26
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.435336	0.069414	0.182577	0.159271	0.045516	0.007670	0.006726	0.077089	0.000846	0.001121	0.010234	0.000591	0.003610

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
NaturalGas Mitigated	0.0118	0.1069	0.0898	6.4000e-004		8.1300e-003	8.1300e-003		8.1300e-003	8.1300e-003	0.0000	116.4044	116.4044	2.2300e-003	2.1300e-003	117.1128
NaturalGas Unmitigated	0.0118	0.1069	0.0898	6.4000e-004		8.1300e-003	8.1300e-003		8.1300e-003	8.1300e-003	0.0000	116.4044	116.4044	2.2300e-003	2.1300e-003	117.1128
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	566.0755	566.0755	0.0260	5.3800e-003	568.2909
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	566.0755	566.0755	0.0260	5.3800e-003	568.2909



### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Fast Food Restaurant with Drive Thru	652149	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003	0.0000	34.8011	34.8011	6.7000e-004	6.4000e-004	35.0129
Hardware/Paint Store	39996.8	2.2000e-004	1.9600e-003	1.6500e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	2.1344	2.1344	4.0000e-005	4.0000e-005	2.1474
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	96001.6	5.2000e-004	4.7100e-003	3.9500e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1230	5.1230	1.0000e-004	9.0000e-005	5.1542
Supermarket	246211	1.3300e-003	0.0121	0.0101	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1388	13.1388	2.5000e-004	2.4000e-004	13.2187
Convenience Market With Gas Pumps	9187.2	5.0000e-005	4.5000e-004	3.8000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4903	0.4903	1.0000e-005	1.0000e-005	0.4933
Fast Food Restaurant w/o Drive Thru	1.13779e+006	6.1400e-003	0.0558	0.0469	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.7169	60.7169	1.1600e-003	1.1100e-003	61.0864
<b>Total</b>		<b>0.0118</b>	<b>0.1069</b>	<b>0.0898</b>	<b>6.3000e-004</b>		<b>8.1300e-003</b>	<b>8.1300e-003</b>		<b>8.1300e-003</b>	<b>8.1300e-003</b>	<b>0.0000</b>	<b>116.4044</b>	<b>116.4044</b>	<b>2.2300e-003</b>	<b>2.1300e-003</b>	<b>117.1128</b>

### 5.2 Energy by Land Use - NaturalGas

#### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Fast Food Restaurant with Drive Thru	652149	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003	0.0000	34.8011	34.8011	6.7000e-004	6.4000e-004	35.0129
Hardware/Paint Store	39996.8	2.2000e-004	1.9600e-003	1.6500e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	2.1344	2.1344	4.0000e-005	4.0000e-005	2.1474
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	96001.6	5.2000e-004	4.7100e-003	3.9500e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1230	5.1230	1.0000e-004	9.0000e-005	5.1542
Supermarket	246211	1.3300e-003	0.0121	0.0101	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1388	13.1388	2.5000e-004	2.4000e-004	13.2187
Convenience Market With Gas Pumps	9187.2	5.0000e-005	4.5000e-004	3.8000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4903	0.4903	1.0000e-005	1.0000e-005	0.4933
Fast Food Restaurant w/o Drive Thru	1.13779e+006	6.1400e-003	0.0558	0.0469	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.7169	60.7169	1.1600e-003	1.1100e-003	61.0864
<b>Total</b>		<b>0.0118</b>	<b>0.1069</b>	<b>0.0898</b>	<b>6.3000e-004</b>		<b>8.1300e-003</b>	<b>8.1300e-003</b>		<b>8.1300e-003</b>	<b>8.1300e-003</b>	<b>0.0000</b>	<b>116.4044</b>	<b>116.4044</b>	<b>2.2300e-003</b>	<b>2.1300e-003</b>	<b>117.1128</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market With Gas Pumps	62013.6	17.7462	8.2000e-004	1.7000e-004	17.8157
Fast Food Restaurant w/o Drive Thru	214840	61.4801	2.8300e-003	5.8000e-004	61.7207
Fast Food Restaurant with Drive Thru	123140	35.2386	1.6200e-003	3.4000e-004	35.3765
Hardware/Paint Store	269978	77.2589	3.5500e-003	7.3000e-004	77.5612
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	173906	49.7660	2.2900e-003	4.7000e-004	49.9608
Strip Mall	648011	185.4392	8.5200e-003	1.7600e-003	186.1650
Supermarket	486242	139.1465	6.4000e-003	1.3200e-003	139.6910
<b>Total</b>		<b>566.0755</b>	<b>0.0260</b>	<b>5.3700e-003</b>	<b>568.2909</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market With Gas Pumps	62013.6	17.7462	8.2000e-004	1.7000e-004	17.8157
Fast Food Restaurant w/o Drive Thru	214840	61.4801	2.8300e-003	5.8000e-004	61.7207
Fast Food Restaurant with Drive Thru	123140	35.2386	1.6200e-003	3.4000e-004	35.3765
Hardware/Paint Store	269978	77.2589	3.5500e-003	7.3000e-004	77.5612
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	173906	49.7660	2.2900e-003	4.7000e-004	49.9608
Strip Mall	648011	185.4392	8.5200e-003	1.7600e-003	186.1650
Supermarket	486242	139.1465	6.4000e-003	1.3200e-003	139.6910
<b>Total</b>		<b>566.0755</b>	<b>0.0260</b>	<b>5.3700e-003</b>	<b>568.2909</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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					
Unmitigated	1.4165	3.0000e-005	3.0300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.7800e-003	5.7800e-003	2.0000e-005	0.0000	6.1200e-003
Mitigated	1.4165	3.0000e-005	3.0300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.7800e-003	5.7800e-003	2.0000e-005	0.0000	6.1200e-003

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1527					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2634					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.9000e-004	3.0000e-005	3.0300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.7800e-003	5.7800e-003	2.0000e-005	0.0000	6.1200e-003
<b>Total</b>	<b>1.4165</b>	<b>3.0000e-005</b>	<b>3.0300e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.7800e-003</b>	<b>5.7800e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>6.1200e-003</b>

## 6.2 Area by SubCategory

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1527					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2634					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.9000e-004	3.0000e-005	3.0300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.7800e-003	5.7800e-003	2.0000e-005	0.0000	6.1200e-003
<b>Total</b>	<b>1.4165</b>	<b>3.0000e-005</b>	<b>3.0300e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.7800e-003</b>	<b>5.7800e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>6.1200e-003</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	42.3998	0.2663	6.6200e-003	50.0458
Mitigated	41.8154	0.2662	6.6100e-003	49.4551

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market With Gas Pumps	0.293327 / 0.179781	1.7576	9.6300e-003	2.4000e-004	2.0348
Fast Food Restaurant w/o Drive Thru	1.24449 / 0.0794354	5.2846	0.0408	1.0000e-003	6.4521
Fast Food Restaurant with Drive Thru	0.713304 / 0.0455301	3.0290	0.0234	5.8000e-004	3.6982
Hardware/Paint Store	1.27701 / 0.782684	7.6519	0.0419	1.0500e-003	8.8587
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.06512 / 1.87862	18.3663	0.1007	2.5200e-003	21.2629
Supermarket	1.5236 / 0.0471215	6.3104	0.0499	1.2300e-003	7.7392
<b>Total</b>		<b>42.3997</b>	<b>0.2663</b>	<b>6.6200e-003</b>	<b>50.0458</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market With Gas Pumps	0.293327 / 0.168815	1.7228	9.6300e-003	2.4000e-004	1.9997
Fast Food Restaurant w/o Drive Thru	1.24449 / 0.0745899	5.2692	0.0408	1.0000e-003	6.4360
Fast Food Restaurant with Drive Thru	0.713304 / 0.0427527	3.0201	0.0234	5.7000e-004	3.6889
Hardware/Paint Store	1.27701 / 0.73494	7.5001	0.0419	1.0500e-003	8.7057
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.06512 / 1.76403	18.0020	0.1006	2.5200e-003	20.8956
Supermarket	1.5236 / 0.0442471	6.3012	0.0499	1.2300e-003	7.7292
<b>Total</b>		<b>41.8154</b>	<b>0.2662</b>	<b>6.6100e-003</b>	<b>49.4551</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste



**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	79.2761	4.6851	0.0000	177.6628
Unmitigated	79.2761	4.6851	0.0000	177.6628

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Convenience Market With Gas Pumps	11.9	2.4156	0.1428	0.0000	5.4135
Fast Food Restaurant w/o Drive Thru	47.23	9.5873	0.5666	0.0000	21.4857
Fast Food Restaurant with Drive Thru	27.07	5.4950	0.3247	0.0000	12.3146
Hardware/Paint Store	191.18	38.8078	2.2935	0.0000	86.9708
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	43.45	8.8200	0.5212	0.0000	19.7661
Supermarket	69.71	14.1505	0.8363	0.0000	31.7122
<b>Total</b>		<b>79.2761</b>	<b>4.6851</b>	<b>0.0000</b>	<b>177.6628</b>

## 8.2 Waste by Land Use

### Mitigated

Land Use	Waste Disposed tons	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Convenience Market With Gas Pumps	11.9	2.4156	0.1428	0.0000	5.4135
Fast Food Restaurant w/o Drive Thru	47.23	9.5873	0.5666	0.0000	21.4857
Fast Food Restaurant with Drive Thru	27.07	5.4950	0.3247	0.0000	12.3146
Hardware/Paint Store	191.18	38.8078	2.2935	0.0000	86.9708
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	43.45	8.8200	0.5212	0.0000	19.7661
Supermarket	69.71	14.1505	0.8363	0.0000	31.7122
<b>Total</b>		<b>79.2761</b>	<b>4.6851</b>	<b>0.0000</b>	<b>177.6628</b>

## 9.0 Operational Offroad

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