

# Appendix A

## **Air Quality Data**

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**Natomas Fountains**  
**Sacramento Metropolitan AQMD Air District, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High Turnover (Sit Down Restaurant)	31.61	1000sqft	0.73	31,605.00	0
Strip Mall	55.38	1000sqft	1.27	55,375.00	0
Supermarket	28.90	1000sqft	0.66	28,900.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2017
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	590.31	<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 -

Construction Phase -

Vehicle Trips - trip rates adjusted per trip generation per 1000SF

Energy Use - adjust title 24 values (\*.75)

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	10.75	8.06
tblEnergyUse	T24E	3.98	2.98
tblEnergyUse	T24E	6.97	5.23
tblEnergyUse	T24NG	62.79	47.09
tblEnergyUse	T24NG	4.72	3.54
tblEnergyUse	T24NG	16.86	12.64
tblLandUse	LandUseSquareFeet	31,610.00	31,605.00
tblLandUse	LandUseSquareFeet	55,380.00	55,375.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblVehicleTrips	ST_TR	158.37	127.15
tblVehicleTrips	ST_TR	42.04	83.50
tblVehicleTrips	ST_TR	177.59	102.24
tblVehicleTrips	SU_TR	131.84	127.15
tblVehicleTrips	SU_TR	20.43	83.50
tblVehicleTrips	SU_TR	166.44	102.24
tblVehicleTrips	WD_TR	44.32	83.50

## 2.0 Emissions Summary

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## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.9225	1.1000e-004	0.0121	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0254	0.0254	7.0000e-005		0.0269
Energy	0.1803	1.6392	1.3770	9.8400e-003		0.1246	0.1246		0.1246	0.1246		1,967.0710	1,967.0710	0.0377	0.0361	1,979.0423
Mobile	37.1389	41.7674	235.6078	0.3928	24.9861	0.5289	25.5151	6.6746	0.4864	7.1609		32,831.5390	32,831.5390	1.4466		32,861.9171
<b>Total</b>	<b>40.2416</b>	<b>43.4067</b>	<b>236.9969</b>	<b>0.4027</b>	<b>24.9861</b>	<b>0.6536</b>	<b>25.6397</b>	<b>6.6746</b>	<b>0.6110</b>	<b>7.2855</b>		<b>34,798.6354</b>	<b>34,798.6354</b>	<b>1.4844</b>	<b>0.0361</b>	<b>34,840.9862</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	2.9225	1.1000e-004	0.0121	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0254	0.0254	7.0000e-005		0.0269
Energy	0.1803	1.6392	1.3770	9.8400e-003		0.1246	0.1246		0.1246	0.1246		1,967.0710	1,967.0710	0.0377	0.0361	1,979.0423
Mobile	37.1389	41.7674	235.6078	0.3928	24.9861	0.5289	25.5151	6.6746	0.4864	7.1609		32,831.5390	32,831.5390	1.4466		32,861.9171
<b>Total</b>	<b>40.2416</b>	<b>43.4067</b>	<b>236.9969</b>	<b>0.4027</b>	<b>24.9861</b>	<b>0.6536</b>	<b>25.6397</b>	<b>6.6746</b>	<b>0.6110</b>	<b>7.2855</b>		<b>34,798.6354</b>	<b>34,798.6354</b>	<b>1.4844</b>	<b>0.0361</b>	<b>34,840.9862</b>

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/28/2017	2/1/2017	5	3	
2	Grading	Grading	2/2/2017	2/9/2017	5	6	
3	Building Construction	Building Construction	2/10/2017	12/14/2017	5	220	
4	Paving	Paving	12/15/2017	12/28/2017	5	10	
5	Architectural Coating	Architectural Coating	12/29/2017	1/11/2018	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 173,820; Non-Residential Outdoor: 57,940 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Scrapers	1	8.00	361	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	40.00	19.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 3.2 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	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.5289	28.6230	17.1310	0.0238		1.3967	1.3967		1.2850	1.2850		2,439.4360	2,439.4360	0.7474		2,455.1322
<b>Total</b>	<b>2.5289</b>	<b>28.6230</b>	<b>17.1310</b>	<b>0.0238</b>	<b>1.5908</b>	<b>1.3967</b>	<b>2.9875</b>	<b>0.1718</b>	<b>1.2850</b>	<b>1.4567</b>		<b>2,439.4360</b>	<b>2,439.4360</b>	<b>0.7474</b>		<b>2,455.1322</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0286	0.0258	0.3456	7.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		61.4319	61.4319	2.8200e-003		61.4911
<b>Total</b>	<b>0.0286</b>	<b>0.0258</b>	<b>0.3456</b>	<b>7.8000e-004</b>	<b>0.0609</b>	<b>4.3000e-004</b>	<b>0.0613</b>	<b>0.0161</b>	<b>4.0000e-004</b>	<b>0.0165</b>		<b>61.4319</b>	<b>61.4319</b>	<b>2.8200e-003</b>		<b>61.4911</b>

### 3.2 Site Preparation - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.5289	28.6230	17.1310	0.0238		1.3967	1.3967		1.2850	1.2850	0.0000	2,439.4360	2,439.4360	0.7474		2,455.1322
<b>Total</b>	<b>2.5289</b>	<b>28.6230</b>	<b>17.1310</b>	<b>0.0238</b>	<b>1.5908</b>	<b>1.3967</b>	<b>2.9875</b>	<b>0.1718</b>	<b>1.2850</b>	<b>1.4567</b>	<b>0.0000</b>	<b>2,439.4360</b>	<b>2,439.4360</b>	<b>0.7474</b>		<b>2,455.1322</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0286	0.0258	0.3456	7.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		61.4319	61.4319	2.8200e-003		61.4911
<b>Total</b>	<b>0.0286</b>	<b>0.0258</b>	<b>0.3456</b>	<b>7.8000e-004</b>	<b>0.0609</b>	<b>4.3000e-004</b>	<b>0.0613</b>	<b>0.0161</b>	<b>4.0000e-004</b>	<b>0.0165</b>		<b>61.4319</b>	<b>61.4319</b>	<b>2.8200e-003</b>		<b>61.4911</b>

### 3.3 Grading - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.6973	28.1608	18.9679	0.0206		1.5550	1.5550		1.4306	1.4306		2,104.5737	2,104.5737	0.6448		2,118.1153
<b>Total</b>	<b>2.6973</b>	<b>28.1608</b>	<b>18.9679</b>	<b>0.0206</b>	<b>6.5523</b>	<b>1.5550</b>	<b>8.1074</b>	<b>3.3675</b>	<b>1.4306</b>	<b>4.7981</b>		<b>2,104.5737</b>	<b>2,104.5737</b>	<b>0.6448</b>		<b>2,118.1153</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0357	0.0322	0.4320	9.7000e-004	0.0761	5.4000e-004	0.0766	0.0202	5.0000e-004	0.0207		76.7899	76.7899	3.5200e-003		76.8639
<b>Total</b>	<b>0.0357</b>	<b>0.0322</b>	<b>0.4320</b>	<b>9.7000e-004</b>	<b>0.0761</b>	<b>5.4000e-004</b>	<b>0.0766</b>	<b>0.0202</b>	<b>5.0000e-004</b>	<b>0.0207</b>		<b>76.7899</b>	<b>76.7899</b>	<b>3.5200e-003</b>		<b>76.8639</b>

### 3.3 Grading - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.6973	28.1608	18.9679	0.0206		1.5550	1.5550		1.4306	1.4306	0.0000	2,104.5737	2,104.5737	0.6448		2,118.1153
<b>Total</b>	<b>2.6973</b>	<b>28.1608</b>	<b>18.9679</b>	<b>0.0206</b>	<b>6.5523</b>	<b>1.5550</b>	<b>8.1074</b>	<b>3.3675</b>	<b>1.4306</b>	<b>4.7981</b>	<b>0.0000</b>	<b>2,104.5737</b>	<b>2,104.5737</b>	<b>0.6448</b>		<b>2,118.1153</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0357	0.0322	0.4320	9.7000e-004	0.0761	5.4000e-004	0.0766	0.0202	5.0000e-004	0.0207		76.7899	76.7899	3.5200e-003		76.8639
<b>Total</b>	<b>0.0357</b>	<b>0.0322</b>	<b>0.4320</b>	<b>9.7000e-004</b>	<b>0.0761</b>	<b>5.4000e-004</b>	<b>0.0766</b>	<b>0.0202</b>	<b>5.0000e-004</b>	<b>0.0207</b>		<b>76.7899</b>	<b>76.7899</b>	<b>3.5200e-003</b>		<b>76.8639</b>

### 3.4 Building Construction - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3275	22.8585	16.2492	0.0249		1.4621	1.4621		1.3998	1.3998		2,334.8503	2,334.8503	0.5189		2,345.7479
<b>Total</b>	<b>3.3275</b>	<b>22.8585</b>	<b>16.2492</b>	<b>0.0249</b>		<b>1.4621</b>	<b>1.4621</b>		<b>1.3998</b>	<b>1.3998</b>		<b>2,334.8503</b>	<b>2,334.8503</b>	<b>0.5189</b>		<b>2,345.7479</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	0.0000	0.0000	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	0.1980	1.3515	2.3977	3.9600e-003	0.1116	0.0211	0.1327	0.0318	0.0194	0.0512		390.0127	390.0127	2.9100e-003		390.0738
Worker	0.1429	0.1289	1.7280	3.8900e-003	0.3043	2.1600e-003	0.3064	0.0807	1.9900e-003	0.0827		307.1596	307.1596	0.0141		307.4556
<b>Total</b>	<b>0.3409</b>	<b>1.4804</b>	<b>4.1257</b>	<b>7.8500e-003</b>	<b>0.4159</b>	<b>0.0232</b>	<b>0.4392</b>	<b>0.1125</b>	<b>0.0214</b>	<b>0.1339</b>		<b>697.1724</b>	<b>697.1724</b>	<b>0.0170</b>		<b>697.5294</b>

### 3.4 Building Construction - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3275	22.8585	16.2492	0.0249		1.4621	1.4621		1.3998	1.3998	0.0000	2,334.8503	2,334.8503	0.5189		2,345.7479
<b>Total</b>	<b>3.3275</b>	<b>22.8585</b>	<b>16.2492</b>	<b>0.0249</b>		<b>1.4621</b>	<b>1.4621</b>		<b>1.3998</b>	<b>1.3998</b>	<b>0.0000</b>	<b>2,334.8503</b>	<b>2,334.8503</b>	<b>0.5189</b>		<b>2,345.7479</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	0.0000	0.0000	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	0.1980	1.3515	2.3977	3.9600e-003	0.1116	0.0211	0.1327	0.0318	0.0194	0.0512		390.0127	390.0127	2.9100e-003		390.0738
Worker	0.1429	0.1289	1.7280	3.8900e-003	0.3043	2.1600e-003	0.3064	0.0807	1.9900e-003	0.0827		307.1596	307.1596	0.0141		307.4556
<b>Total</b>	<b>0.3409</b>	<b>1.4804</b>	<b>4.1257</b>	<b>7.8500e-003</b>	<b>0.4159</b>	<b>0.0232</b>	<b>0.4392</b>	<b>0.1125</b>	<b>0.0214</b>	<b>0.1339</b>		<b>697.1724</b>	<b>697.1724</b>	<b>0.0170</b>		<b>697.5294</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6402	16.4619	12.0566	0.0176		1.0230	1.0230		0.9423	0.9423		1,777.4745	1,777.4745	0.5344		1,788.6966
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.6402</b>	<b>16.4619</b>	<b>12.0566</b>	<b>0.0176</b>		<b>1.0230</b>	<b>1.0230</b>		<b>0.9423</b>	<b>0.9423</b>		<b>1,777.4745</b>	<b>1,777.4745</b>	<b>0.5344</b>		<b>1,788.6966</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0536	0.0483	0.6480	1.4600e-003	0.1141	8.1000e-004	0.1149	0.0303	7.5000e-004	0.0310		115.1849	115.1849	5.2800e-003		115.2959
<b>Total</b>	<b>0.0536</b>	<b>0.0483</b>	<b>0.6480</b>	<b>1.4600e-003</b>	<b>0.1141</b>	<b>8.1000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.5000e-004</b>	<b>0.0310</b>		<b>115.1849</b>	<b>115.1849</b>	<b>5.2800e-003</b>		<b>115.2959</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6402	16.4619	12.0566	0.0176		1.0230	1.0230		0.9423	0.9423	0.0000	1,777.4745	1,777.4745	0.5344		1,788.6966
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.6402</b>	<b>16.4619</b>	<b>12.0566</b>	<b>0.0176</b>		<b>1.0230</b>	<b>1.0230</b>		<b>0.9423</b>	<b>0.9423</b>	<b>0.0000</b>	<b>1,777.4745</b>	<b>1,777.4745</b>	<b>0.5344</b>		<b>1,788.6966</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0536	0.0483	0.6480	1.4600e-003	0.1141	8.1000e-004	0.1149	0.0303	7.5000e-004	0.0310		115.1849	115.1849	5.2800e-003		115.2959
<b>Total</b>	<b>0.0536</b>	<b>0.0483</b>	<b>0.6480</b>	<b>1.4600e-003</b>	<b>0.1141</b>	<b>8.1000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.5000e-004</b>	<b>0.0310</b>		<b>115.1849</b>	<b>115.1849</b>	<b>5.2800e-003</b>		<b>115.2959</b>

### 3.6 Architectural Coating - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	161.1311					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721
<b>Total</b>	<b>161.4635</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>		<b>282.0721</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0286	0.0258	0.3456	7.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		61.4319	61.4319	2.8200e-003		61.4911
<b>Total</b>	<b>0.0286</b>	<b>0.0258</b>	<b>0.3456</b>	<b>7.8000e-004</b>	<b>0.0609</b>	<b>4.3000e-004</b>	<b>0.0613</b>	<b>0.0161</b>	<b>4.0000e-004</b>	<b>0.0165</b>		<b>61.4319</b>	<b>61.4319</b>	<b>2.8200e-003</b>		<b>61.4911</b>

### 3.6 Architectural Coating - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	161.1311					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721
<b>Total</b>	<b>161.4635</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>		<b>282.0721</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0286	0.0258	0.3456	7.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		61.4319	61.4319	2.8200e-003		61.4911
<b>Total</b>	<b>0.0286</b>	<b>0.0258</b>	<b>0.3456</b>	<b>7.8000e-004</b>	<b>0.0609</b>	<b>4.3000e-004</b>	<b>0.0613</b>	<b>0.0161</b>	<b>4.0000e-004</b>	<b>0.0165</b>		<b>61.4319</b>	<b>61.4319</b>	<b>2.8200e-003</b>		<b>61.4911</b>

### 3.6 Architectural Coating - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	161.1311					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267			282.0102
<b>Total</b>	<b>161.4298</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>		<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>			<b>282.0102</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0256	0.0232	0.3117	7.8000e-004	0.0609	4.2000e-004	0.0613	0.0161	3.9000e-004	0.0165		59.1140	59.1140	2.5900e-003			59.1685
<b>Total</b>	<b>0.0256</b>	<b>0.0232</b>	<b>0.3117</b>	<b>7.8000e-004</b>	<b>0.0609</b>	<b>4.2000e-004</b>	<b>0.0613</b>	<b>0.0161</b>	<b>3.9000e-004</b>	<b>0.0165</b>		<b>59.1140</b>	<b>59.1140</b>	<b>2.5900e-003</b>			<b>59.1685</b>

### 3.6 Architectural Coating - 2018

#### 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	161.1311					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102
<b>Total</b>	<b>161.4298</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>	<b>0.0000</b>	<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.0102</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0256	0.0232	0.3117	7.8000e-004	0.0609	4.2000e-004	0.0613	0.0161	3.9000e-004	0.0165		59.1140	59.1140	2.5900e-003		59.1685
<b>Total</b>	<b>0.0256</b>	<b>0.0232</b>	<b>0.3117</b>	<b>7.8000e-004</b>	<b>0.0609</b>	<b>4.2000e-004</b>	<b>0.0613</b>	<b>0.0161</b>	<b>3.9000e-004</b>	<b>0.0165</b>		<b>59.1140</b>	<b>59.1140</b>	<b>2.5900e-003</b>		<b>59.1685</b>

### 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	37.1389	41.7674	235.6078	0.3928	24.9861	0.5289	25.5151	6.6746	0.4864	7.1609		32,831.53 90	32,831.53 90	1.4466		32,861.91 71
Unmitigated	37.1389	41.7674	235.6078	0.3928	24.9861	0.5289	25.5151	6.6746	0.4864	7.1609		32,831.53 90	32,831.53 90	1.4466		32,861.91 71

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High Turnover (Sit Down Restaurant)	4,019.21	4,019.21	4,019.21	3,571,458	3,571,458
Strip Mall	4,624.23	4,624.23	4,624.23	5,686,337	5,686,337
Supermarket	2,954.74	2,954.74	2,954.74	2,542,700	2,542,700
<b>Total</b>	<b>11,598.18</b>	<b>11,598.18</b>	<b>11,598.18</b>	<b>11,800,495</b>	<b>11,800,495</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
High Turnover (Sit Down)	10.00	5.00	6.50	8.50	72.50	19.00	37	20	43
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504380	0.068251	0.178421	0.147199	0.044767	0.006294	0.020809	0.016358	0.002307	0.002286	0.006181	0.000572	0.002175

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.1803	1.6392	1.3770	9.8400e-003		0.1246	0.1246		0.1246	0.1246		1,967.0710	1,967.0710	0.0377	0.0361	1,979.0423
NaturalGas Unmitigated	0.1803	1.6392	1.3770	9.8400e-003		0.1246	0.1246		0.1246	0.1246		1,967.0710	1,967.0710	0.0377	0.0361	1,979.0423

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	678.154	7.3100e-003	0.0665	0.0559	4.0000e-004		5.0500e-003	5.0500e-003		5.0500e-003	5.0500e-003		79.7828	79.7828	1.5300e-003	1.4600e-003	80.2684
Supermarket	1743.5	0.0188	0.1709	0.1436	1.0300e-003		0.0130	0.0130		0.0130	0.0130		205.1178	205.1178	3.9300e-003	3.7600e-003	206.3661
High Turnover (Sit Down Restaurant)	14298.4	0.1542	1.4018	1.1775	8.4100e-003		0.1065	0.1065		0.1065	0.1065		1,682.1704	1,682.1704	0.0322	0.0308	1,692.4078
<b>Total</b>		<b>0.1803</b>	<b>1.6392</b>	<b>1.3770</b>	<b>9.8400e-003</b>		<b>0.1246</b>	<b>0.1246</b>		<b>0.1246</b>	<b>0.1246</b>		<b>1,967.0710</b>	<b>1,967.0710</b>	<b>0.0377</b>	<b>0.0361</b>	<b>1,979.0423</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/yr	lb/day										lb/day					
Strip Mall	0.678154	7.3100e-003	0.0665	0.0559	4.0000e-004		5.0500e-003	5.0500e-003		5.0500e-003	5.0500e-003		79.7828	79.7828	1.5300e-003	1.4600e-003	80.2684
Supermarket	1.7435	0.0188	0.1709	0.1436	1.0300e-003		0.0130	0.0130		0.0130	0.0130		205.1178	205.1178	3.9300e-003	3.7600e-003	206.3661
High Turnover (Sit Down Restaurant)	14.2984	0.1542	1.4018	1.1775	8.4100e-003		0.1065	0.1065		0.1065	0.1065		1,682.1704	1,682.1704	0.0322	0.0308	1,692.4078
<b>Total</b>		<b>0.1803</b>	<b>1.6392</b>	<b>1.3770</b>	<b>9.8400e-003</b>		<b>0.1246</b>	<b>0.1246</b>		<b>0.1246</b>	<b>0.1246</b>		<b>1,967.0710</b>	<b>1,967.0710</b>	<b>0.0377</b>	<b>0.0361</b>	<b>1,979.0423</b>

### 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.9225	1.1000e-004	0.0121	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0254	0.0254	7.0000e-005		0.0269
Unmitigated	2.9225	1.1000e-004	0.0121	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0254	0.0254	7.0000e-005		0.0269

### 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	0.4415					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.4798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1600e-003	1.1000e-004	0.0121	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0254	0.0254	7.0000e-005		0.0269
<b>Total</b>	<b>2.9225</b>	<b>1.1000e-004</b>	<b>0.0121</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0254</b>	<b>0.0254</b>	<b>7.0000e-005</b>		<b>0.0269</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	0.4415					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.4798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1600e-003	1.1000e-004	0.0121	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0254	0.0254	7.0000e-005		0.0269
<b>Total</b>	<b>2.9225</b>	<b>1.1000e-004</b>	<b>0.0121</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0254</b>	<b>0.0254</b>	<b>7.0000e-005</b>		<b>0.0269</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 Operational Offroad

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

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