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**APPENDIX G**  
**CALEEMOD OUTPUTS FOR**  
**GREENHOUSE GAS EMISSIONS**

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Hare Creek Center - Statewide , Annual

**Hare Creek Center**  
Statewide , Annual

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	99.00	Space	1.79	39,600.00	0
Regional Shopping Center	29.50	1000sqft	1.37	29,500.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	1			<b>Operational Year</b>	2018
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - Adjusted acreage per project applicant.

Construction Phase - Construction, paving, and architectural coating assumed to occur simultaneously.

Off-road Equipment -

Grading -

Vehicle Trips - Adjusted per TIA.

Construction Off-road Equipment Mitigation - per Rule MCAPCD 1-430

Trips and VMT - Hauling trips account for soil export and landscape soil import

Off-road Equipment -

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Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	10
tblConstructionPhase	NumDays	18.00	329.00
tblConstructionPhase	NumDays	230.00	329.00
tblConstructionPhase	NumDays	8.00	11.00
tblConstructionPhase	NumDays	18.00	329.00
tblConstructionPhase	NumDays	5.00	7.00
tblGrading	MaterialExported	0.00	4,301.00
tblLandUse	LotAcreage	0.89	1.79
tblLandUse	LotAcreage	0.68	1.37
tblTripsAndVMT	HaulingTripNumber	0.00	34.00
tblTripsAndVMT	HaulingTripNumber	538.00	500.00
tblTripsAndVMT	HaulingTripNumber	0.00	93.00
tblTripsAndVMT	HaulingTripNumber	0.00	93.00
tblTripsAndVMT	HaulingTripNumber	0.00	93.00
tblVehicleTrips	ST_TR	49.97	104.73
tblVehicleTrips	SU_TR	25.24	104.73
tblVehicleTrips	WD_TR	42.70	104.73

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-1-2017	6-30-2017	1.8008	1.8008
2	7-1-2017	9-30-2017	1.8209	1.8209
3	10-1-2017	12-31-2017	1.8231	1.8231
4	1-1-2018	3-31-2018	1.5657	1.5657
5	4-1-2018	6-30-2018	1.5813	1.5813
6	7-1-2018	9-30-2018	0.5387	0.5387
		Highest	1.8231	1.8231

**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	0.1535	1.0000e-005	1.2000e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3000e-003	2.3000e-003	1.0000e-005	0.0000	2.4500e-003
Energy	1.1500e-003	0.0105	8.8100e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	140.8391	140.8391	6.0700e-003	1.4200e-003	141.4141
Mobile	1.1085	5.8624	11.2717	0.0299	2.0339	0.0394	2.0733	0.5461	0.0372	0.5833	0.0000	2,747.8600	2,747.8600	0.1752	0.0000	2,752.2410
Waste						0.0000	0.0000		0.0000	0.0000	6.2887	0.0000	6.2887	0.3717	0.0000	15.5799
Water						0.0000	0.0000		0.0000	0.0000	0.6932	8.7046	9.3978	0.0716	1.7600e-003	11.7130
<b>Total</b>	<b>1.2631</b>	<b>5.8729</b>	<b>11.2817</b>	<b>0.0299</b>	<b>2.0339</b>	<b>0.0402</b>	<b>2.0741</b>	<b>0.5461</b>	<b>0.0380</b>	<b>0.5841</b>	<b>6.9819</b>	<b>2,897.4059</b>	<b>2,904.3878</b>	<b>0.6246</b>	<b>3.1800e-003</b>	<b>2,920.9504</b>

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**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	0.1535	1.0000e-005	1.2000e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3000e-003	2.3000e-003	1.0000e-005	0.0000	2.4500e-003
Energy	1.1500e-003	0.0105	8.8100e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	140.8391	140.8391	6.0700e-003	1.4200e-003	141.4141
Mobile	1.1085	5.8624	11.2717	0.0299	2.0339	0.0394	2.0733	0.5461	0.0372	0.5833	0.0000	2,747.8600	2,747.8600	0.1752	0.0000	2,752.2410
Waste						0.0000	0.0000		0.0000	0.0000	6.2887	0.0000	6.2887	0.3717	0.0000	15.5799
Water						0.0000	0.0000		0.0000	0.0000	0.6932	8.7046	9.3978	0.0716	1.7600e-003	11.7130
<b>Total</b>	<b>1.2631</b>	<b>5.8729</b>	<b>11.2817</b>	<b>0.0299</b>	<b>2.0339</b>	<b>0.0402</b>	<b>2.0741</b>	<b>0.5461</b>	<b>0.0380</b>	<b>0.5841</b>	<b>6.9819</b>	<b>2,897.4059</b>	<b>2,904.3878</b>	<b>0.6246</b>	<b>3.1800e-003</b>	<b>2,920.9504</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**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	4/1/2017	4/11/2017	5	7	
2	Grading	Grading	4/12/2017	4/26/2017	5	11	
3	Building Construction	Building Construction	4/27/2017	7/31/2018	5	329	
4	Paving	Paving	4/27/2017	7/31/2018	5	329	
5	Architectural Coating	Architectural Coating	4/27/2017	7/31/2018	5	329	

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

**Acres of Grading (Grading Phase): 5.5**

**Acres of Paving: 1.79**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 44,250; Non-Residential Outdoor: 14,750; Striped Parking Area: 2,376 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	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	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	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	7	18.00	0.00	34.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	500.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	26.00	11.00	93.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	93.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	93.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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**3.1 Mitigation Measures Construction**

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**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	tons/yr										MT/yr					
Fugitive Dust					0.0632	0.0000	0.0632	0.0348	0.0000	0.0348	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0174	0.1830	0.0821	1.3000e-004		0.0101	0.0101		9.2700e-003	9.2700e-003	0.0000	12.3670	12.3670	3.7900e-003	0.0000	12.4618
<b>Total</b>	<b>0.0174</b>	<b>0.1830</b>	<b>0.0821</b>	<b>1.3000e-004</b>	<b>0.0632</b>	<b>0.0101</b>	<b>0.0733</b>	<b>0.0348</b>	<b>9.2700e-003</b>	<b>0.0440</b>	<b>0.0000</b>	<b>12.3670</b>	<b>12.3670</b>	<b>3.7900e-003</b>	<b>0.0000</b>	<b>12.4618</b>

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**3.2 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	1.8000e-004	5.8200e-003	1.0200e-003	1.0000e-005	2.9000e-004	3.0000e-005	3.2000e-004	8.0000e-005	3.0000e-005	1.1000e-004	0.0000	1.3276	1.3276	8.0000e-005	0.0000	1.3295
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	3.2000e-004	2.6000e-004	2.6300e-003	1.0000e-005	5.0000e-004	0.0000	5.1000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4943	0.4943	2.0000e-005	0.0000	0.4948
<b>Total</b>	<b>5.0000e-004</b>	<b>6.0800e-003</b>	<b>3.6500e-003</b>	<b>2.0000e-005</b>	<b>7.9000e-004</b>	<b>3.0000e-005</b>	<b>8.3000e-004</b>	<b>2.1000e-004</b>	<b>3.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>1.8218</b>	<b>1.8218</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.8243</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					0.0285	0.0000	0.0285	0.0156	0.0000	0.0156	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0174	0.1830	0.0821	1.3000e-004		0.0101	0.0101		9.2700e-003	9.2700e-003	0.0000	12.3670	12.3670	3.7900e-003	0.0000	12.4618
<b>Total</b>	<b>0.0174</b>	<b>0.1830</b>	<b>0.0821</b>	<b>1.3000e-004</b>	<b>0.0285</b>	<b>0.0101</b>	<b>0.0385</b>	<b>0.0156</b>	<b>9.2700e-003</b>	<b>0.0249</b>	<b>0.0000</b>	<b>12.3670</b>	<b>12.3670</b>	<b>3.7900e-003</b>	<b>0.0000</b>	<b>12.4618</b>

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**3.2 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	1.8000e-004	5.8200e-003	1.0200e-003	1.0000e-005	2.9000e-004	3.0000e-005	3.2000e-004	8.0000e-005	3.0000e-005	1.1000e-004	0.0000	1.3276	1.3276	8.0000e-005	0.0000	1.3295
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	3.2000e-004	2.6000e-004	2.6300e-003	1.0000e-005	5.0000e-004	0.0000	5.1000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4943	0.4943	2.0000e-005	0.0000	0.4948
<b>Total</b>	<b>5.0000e-004</b>	<b>6.0800e-003</b>	<b>3.6500e-003</b>	<b>2.0000e-005</b>	<b>7.9000e-004</b>	<b>3.0000e-005</b>	<b>8.3000e-004</b>	<b>2.1000e-004</b>	<b>3.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>1.8218</b>	<b>1.8218</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.8243</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	tons/yr										MT/yr					
Fugitive Dust					0.0363	0.0000	0.0363	0.0186	0.0000	0.0186	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0169	0.1864	0.0941	1.6000e-004		9.7800e-003	9.7800e-003		8.9900e-003	8.9900e-003	0.0000	15.1577	15.1577	4.6400e-003	0.0000	15.2738
<b>Total</b>	<b>0.0169</b>	<b>0.1864</b>	<b>0.0941</b>	<b>1.6000e-004</b>	<b>0.0363</b>	<b>9.7800e-003</b>	<b>0.0461</b>	<b>0.0186</b>	<b>8.9900e-003</b>	<b>0.0276</b>	<b>0.0000</b>	<b>15.1577</b>	<b>15.1577</b>	<b>4.6400e-003</b>	<b>0.0000</b>	<b>15.2738</b>

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**3.3 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	2.6200e-003	0.0855	0.0150	2.0000e-004	4.2500e-003	4.9000e-004	4.7400e-003	1.1700e-003	4.7000e-004	1.6400e-003	0.0000	19.5230	19.5230	1.1300e-003	0.0000	19.5512
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	4.2000e-004	3.4000e-004	3.4400e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.6473	0.6473	3.0000e-005	0.0000	0.6479
<b>Total</b>	<b>3.0400e-003</b>	<b>0.0859</b>	<b>0.0185</b>	<b>2.1000e-004</b>	<b>4.9100e-003</b>	<b>5.0000e-004</b>	<b>5.4000e-003</b>	<b>1.3400e-003</b>	<b>4.7000e-004</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>20.1703</b>	<b>20.1703</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>20.1992</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					0.0163	0.0000	0.0163	8.3500e-003	0.0000	8.3500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0169	0.1864	0.0941	1.6000e-004		9.7800e-003	9.7800e-003		8.9900e-003	8.9900e-003	0.0000	15.1577	15.1577	4.6400e-003	0.0000	15.2738
<b>Total</b>	<b>0.0169</b>	<b>0.1864</b>	<b>0.0941</b>	<b>1.6000e-004</b>	<b>0.0163</b>	<b>9.7800e-003</b>	<b>0.0261</b>	<b>8.3500e-003</b>	<b>8.9900e-003</b>	<b>0.0173</b>	<b>0.0000</b>	<b>15.1577</b>	<b>15.1577</b>	<b>4.6400e-003</b>	<b>0.0000</b>	<b>15.2738</b>

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**3.3 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	2.6200e-003	0.0855	0.0150	2.0000e-004	4.2500e-003	4.9000e-004	4.7400e-003	1.1700e-003	4.7000e-004	1.6400e-003	0.0000	19.5230	19.5230	1.1300e-003	0.0000	19.5512
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	4.2000e-004	3.4000e-004	3.4400e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.6473	0.6473	3.0000e-005	0.0000	0.6479
<b>Total</b>	<b>3.0400e-003</b>	<b>0.0859</b>	<b>0.0185</b>	<b>2.1000e-004</b>	<b>4.9100e-003</b>	<b>5.0000e-004</b>	<b>5.4000e-003</b>	<b>1.3400e-003</b>	<b>4.7000e-004</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>20.1703</b>	<b>20.1703</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>20.1992</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	tons/yr										MT/yr					
Off-Road	0.2757	2.3501	1.6092	2.3800e-003		0.1582	0.1582		0.1486	0.1486	0.0000	212.8362	212.8362	0.0524	0.0000	214.1471
<b>Total</b>	<b>0.2757</b>	<b>2.3501</b>	<b>1.6092</b>	<b>2.3800e-003</b>		<b>0.1582</b>	<b>0.1582</b>		<b>0.1486</b>	<b>0.1486</b>	<b>0.0000</b>	<b>212.8362</b>	<b>212.8362</b>	<b>0.0524</b>	<b>0.0000</b>	<b>214.1471</b>

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**3.4 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	2.6000e-004	8.5600e-003	1.5000e-003	2.0000e-005	7.0000e-004	5.0000e-005	7.5000e-004	1.8000e-004	5.0000e-005	2.3000e-004	0.0000	1.9536	1.9536	1.1000e-004	0.0000	1.9564
Vendor	5.6900e-003	0.1374	0.0373	2.7000e-004	6.4200e-003	1.2700e-003	7.6900e-003	1.8600e-003	1.2100e-003	3.0700e-003	0.0000	26.1898	26.1898	1.8400e-003	0.0000	26.2357
Worker	0.0119	9.5100e-003	0.0961	2.0000e-004	0.0183	1.5000e-004	0.0185	4.8600e-003	1.4000e-004	5.0000e-003	0.0000	18.0529	18.0529	7.3000e-004	0.0000	18.0711
<b>Total</b>	<b>0.0178</b>	<b>0.1554</b>	<b>0.1349</b>	<b>4.9000e-004</b>	<b>0.0254</b>	<b>1.4700e-003</b>	<b>0.0269</b>	<b>6.9000e-003</b>	<b>1.4000e-003</b>	<b>8.3000e-003</b>	<b>0.0000</b>	<b>46.1963</b>	<b>46.1963</b>	<b>2.6800e-003</b>	<b>0.0000</b>	<b>46.2633</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	0.2757	2.3501	1.6092	2.3800e-003		0.1582	0.1582		0.1486	0.1486	0.0000	212.8359	212.8359	0.0524	0.0000	214.1468
<b>Total</b>	<b>0.2757</b>	<b>2.3501</b>	<b>1.6092</b>	<b>2.3800e-003</b>		<b>0.1582</b>	<b>0.1582</b>		<b>0.1486</b>	<b>0.1486</b>	<b>0.0000</b>	<b>212.8359</b>	<b>212.8359</b>	<b>0.0524</b>	<b>0.0000</b>	<b>214.1468</b>

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**3.4 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	2.6000e-004	8.5600e-003	1.5000e-003	2.0000e-005	7.0000e-004	5.0000e-005	7.5000e-004	1.8000e-004	5.0000e-005	2.3000e-004	0.0000	1.9536	1.9536	1.1000e-004	0.0000	1.9564
Vendor	5.6900e-003	0.1374	0.0373	2.7000e-004	6.4200e-003	1.2700e-003	7.6900e-003	1.8600e-003	1.2100e-003	3.0700e-003	0.0000	26.1898	26.1898	1.8400e-003	0.0000	26.2357
Worker	0.0119	9.5100e-003	0.0961	2.0000e-004	0.0183	1.5000e-004	0.0185	4.8600e-003	1.4000e-004	5.0000e-003	0.0000	18.0529	18.0529	7.3000e-004	0.0000	18.0711
<b>Total</b>	<b>0.0178</b>	<b>0.1554</b>	<b>0.1349</b>	<b>4.9000e-004</b>	<b>0.0254</b>	<b>1.4700e-003</b>	<b>0.0269</b>	<b>6.9000e-003</b>	<b>1.4000e-003</b>	<b>8.3000e-003</b>	<b>0.0000</b>	<b>46.1963</b>	<b>46.1963</b>	<b>2.6800e-003</b>	<b>0.0000</b>	<b>46.2633</b>

**3.4 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	0.2036	1.7776	1.3361	2.0500e-003		0.1140	0.1140		0.1072	0.1072	0.0000	180.7031	180.7031	0.0443	0.0000	181.8099
<b>Total</b>	<b>0.2036</b>	<b>1.7776</b>	<b>1.3361</b>	<b>2.0500e-003</b>		<b>0.1140</b>	<b>0.1140</b>		<b>0.1072</b>	<b>0.1072</b>	<b>0.0000</b>	<b>180.7031</b>	<b>180.7031</b>	<b>0.0443</b>	<b>0.0000</b>	<b>181.8099</b>

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**3.4 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	1.9000e-004	6.7800e-003	1.1700e-003	2.0000e-005	6.8000e-004	3.0000e-005	7.1000e-004	1.8000e-004	3.0000e-005	2.1000e-004	0.0000	1.6646	1.6646	9.0000e-005	0.0000	1.6669
Vendor	4.2300e-003	0.1106	0.0282	2.3000e-004	5.5100e-003	8.6000e-004	6.3800e-003	1.5900e-003	8.3000e-004	2.4200e-003	0.0000	22.4269	22.4269	1.4700e-003	0.0000	22.4635
Worker	9.0500e-003	7.1200e-003	0.0722	1.7000e-004	0.0157	1.2000e-004	0.0158	4.1800e-003	1.2000e-004	4.2900e-003	0.0000	15.0750	15.0750	5.5000e-004	0.0000	15.0888
<b>Total</b>	<b>0.0135</b>	<b>0.1245</b>	<b>0.1016</b>	<b>4.2000e-004</b>	<b>0.0219</b>	<b>1.0100e-003</b>	<b>0.0229</b>	<b>5.9500e-003</b>	<b>9.8000e-004</b>	<b>6.9200e-003</b>	<b>0.0000</b>	<b>39.1665</b>	<b>39.1665</b>	<b>2.1100e-003</b>	<b>0.0000</b>	<b>39.2192</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	0.2036	1.7776	1.3361	2.0500e-003		0.1140	0.1140		0.1072	0.1072	0.0000	180.7029	180.7029	0.0443	0.0000	181.8097
<b>Total</b>	<b>0.2036</b>	<b>1.7776</b>	<b>1.3361</b>	<b>2.0500e-003</b>		<b>0.1140</b>	<b>0.1140</b>		<b>0.1072</b>	<b>0.1072</b>	<b>0.0000</b>	<b>180.7029</b>	<b>180.7029</b>	<b>0.0443</b>	<b>0.0000</b>	<b>181.8097</b>

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**3.4 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	1.9000e-004	6.7800e-003	1.1700e-003	2.0000e-005	6.8000e-004	3.0000e-005	7.1000e-004	1.8000e-004	3.0000e-005	2.1000e-004	0.0000	1.6646	1.6646	9.0000e-005	0.0000	1.6669
Vendor	4.2300e-003	0.1106	0.0282	2.3000e-004	5.5100e-003	8.6000e-004	6.3800e-003	1.5900e-003	8.3000e-004	2.4200e-003	0.0000	22.4269	22.4269	1.4700e-003	0.0000	22.4635
Worker	9.0500e-003	7.1200e-003	0.0722	1.7000e-004	0.0157	1.2000e-004	0.0158	4.1800e-003	1.2000e-004	4.2900e-003	0.0000	15.0750	15.0750	5.5000e-004	0.0000	15.0888
<b>Total</b>	<b>0.0135</b>	<b>0.1245</b>	<b>0.1016</b>	<b>4.2000e-004</b>	<b>0.0219</b>	<b>1.0100e-003</b>	<b>0.0229</b>	<b>5.9500e-003</b>	<b>9.8000e-004</b>	<b>6.9200e-003</b>	<b>0.0000</b>	<b>39.1665</b>	<b>39.1665</b>	<b>2.1100e-003</b>	<b>0.0000</b>	<b>39.2192</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	tons/yr										MT/yr					
Off-Road	0.1484	1.5080	1.1200	1.6700e-003		0.0900	0.0900		0.0830	0.0830	0.0000	152.6858	152.6858	0.0456	0.0000	153.8245
Paving	1.2600e-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>0.1496</b>	<b>1.5080</b>	<b>1.1200</b>	<b>1.6700e-003</b>		<b>0.0900</b>	<b>0.0900</b>		<b>0.0830</b>	<b>0.0830</b>	<b>0.0000</b>	<b>152.6858</b>	<b>152.6858</b>	<b>0.0456</b>	<b>0.0000</b>	<b>153.8245</b>

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**3.5 Paving - 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	2.6000e-004	8.5600e-003	1.5000e-003	2.0000e-005	7.0000e-004	5.0000e-005	7.5000e-004	1.8000e-004	5.0000e-005	2.3000e-004	0.0000	1.9536	1.9536	1.1000e-004	0.0000	1.9564
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	9.1100e-003	7.3200e-003	0.0739	1.5000e-004	0.0141	1.2000e-004	0.0142	3.7400e-003	1.1000e-004	3.8500e-003	0.0000	13.8869	13.8869	5.6000e-004	0.0000	13.9009
<b>Total</b>	<b>9.3700e-003</b>	<b>0.0159</b>	<b>0.0754</b>	<b>1.7000e-004</b>	<b>0.0148</b>	<b>1.7000e-004</b>	<b>0.0149</b>	<b>3.9200e-003</b>	<b>1.6000e-004</b>	<b>4.0800e-003</b>	<b>0.0000</b>	<b>15.8405</b>	<b>15.8405</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>15.8573</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	0.1484	1.5079	1.1200	1.6700e-003		0.0900	0.0900		0.0830	0.0830	0.0000	152.6856	152.6856	0.0456	0.0000	153.8243
Paving	1.2600e-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>0.1496</b>	<b>1.5079</b>	<b>1.1200</b>	<b>1.6700e-003</b>		<b>0.0900</b>	<b>0.0900</b>		<b>0.0830</b>	<b>0.0830</b>	<b>0.0000</b>	<b>152.6856</b>	<b>152.6856</b>	<b>0.0456</b>	<b>0.0000</b>	<b>153.8243</b>

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**3.5 Paving - 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	2.6000e-004	8.5600e-003	1.5000e-003	2.0000e-005	7.0000e-004	5.0000e-005	7.5000e-004	1.8000e-004	5.0000e-005	2.3000e-004	0.0000	1.9536	1.9536	1.1000e-004	0.0000	1.9564
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	9.1100e-003	7.3200e-003	0.0739	1.5000e-004	0.0141	1.2000e-004	0.0142	3.7400e-003	1.1000e-004	3.8500e-003	0.0000	13.8869	13.8869	5.6000e-004	0.0000	13.9009
<b>Total</b>	<b>9.3700e-003</b>	<b>0.0159</b>	<b>0.0754</b>	<b>1.7000e-004</b>	<b>0.0148</b>	<b>1.7000e-004</b>	<b>0.0149</b>	<b>3.9200e-003</b>	<b>1.6000e-004</b>	<b>4.0800e-003</b>	<b>0.0000</b>	<b>15.8405</b>	<b>15.8405</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>15.8573</b>

**3.5 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	0.1082	1.1034	0.9449	1.4400e-003		0.0636	0.0636		0.0587	0.0587	0.0000	129.1049	129.1049	0.0391	0.0000	130.0827
Paving	1.0800e-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>0.1093</b>	<b>1.1034</b>	<b>0.9449</b>	<b>1.4400e-003</b>		<b>0.0636</b>	<b>0.0636</b>		<b>0.0587</b>	<b>0.0587</b>	<b>0.0000</b>	<b>129.1049</b>	<b>129.1049</b>	<b>0.0391</b>	<b>0.0000</b>	<b>130.0827</b>

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**3.5 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	1.9000e-004	6.7800e-003	1.1700e-003	2.0000e-005	6.8000e-004	3.0000e-005	7.1000e-004	1.8000e-004	3.0000e-005	2.1000e-004	0.0000	1.6646	1.6646	9.0000e-005	0.0000	1.6669
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9600e-003	5.4800e-003	0.0555	1.3000e-004	0.0121	1.0000e-004	0.0122	3.2100e-003	9.0000e-005	3.3000e-003	0.0000	11.5962	11.5962	4.2000e-004	0.0000	11.6068
<b>Total</b>	<b>7.1500e-003</b>	<b>0.0123</b>	<b>0.0567</b>	<b>1.5000e-004</b>	<b>0.0128</b>	<b>1.3000e-004</b>	<b>0.0129</b>	<b>3.3900e-003</b>	<b>1.2000e-004</b>	<b>3.5100e-003</b>	<b>0.0000</b>	<b>13.2607</b>	<b>13.2607</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>13.2736</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	0.1082	1.1034	0.9449	1.4400e-003		0.0636	0.0636		0.0587	0.0587	0.0000	129.1048	129.1048	0.0391	0.0000	130.0825
Paving	1.0800e-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>0.1093</b>	<b>1.1034</b>	<b>0.9449</b>	<b>1.4400e-003</b>		<b>0.0636</b>	<b>0.0636</b>		<b>0.0587</b>	<b>0.0587</b>	<b>0.0000</b>	<b>129.1048</b>	<b>129.1048</b>	<b>0.0391</b>	<b>0.0000</b>	<b>130.0825</b>

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**3.5 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	1.9000e-004	6.7800e-003	1.1700e-003	2.0000e-005	6.8000e-004	3.0000e-005	7.1000e-004	1.8000e-004	3.0000e-005	2.1000e-004	0.0000	1.6646	1.6646	9.0000e-005	0.0000	1.6669
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9600e-003	5.4800e-003	0.0555	1.3000e-004	0.0121	1.0000e-004	0.0122	3.2100e-003	9.0000e-005	3.3000e-003	0.0000	11.5962	11.5962	4.2000e-004	0.0000	11.6068
<b>Total</b>	<b>7.1500e-003</b>	<b>0.0123</b>	<b>0.0567</b>	<b>1.5000e-004</b>	<b>0.0128</b>	<b>1.3000e-004</b>	<b>0.0129</b>	<b>3.3900e-003</b>	<b>1.2000e-004</b>	<b>3.5100e-003</b>	<b>0.0000</b>	<b>13.2607</b>	<b>13.2607</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>13.2736</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	tons/yr										MT/yr					
Archit. Coating	0.1913					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0294	0.1934	0.1653	2.6000e-004		0.0153	0.0153		0.0153	0.0153	0.0000	22.5963	22.5963	2.3900e-003	0.0000	22.6559
<b>Total</b>	<b>0.2207</b>	<b>0.1934</b>	<b>0.1653</b>	<b>2.6000e-004</b>		<b>0.0153</b>	<b>0.0153</b>		<b>0.0153</b>	<b>0.0153</b>	<b>0.0000</b>	<b>22.5963</b>	<b>22.5963</b>	<b>2.3900e-003</b>	<b>0.0000</b>	<b>22.6559</b>

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**3.6 Architectural Coating - 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	2.6000e-004	8.5600e-003	1.5000e-003	2.0000e-005	7.0000e-004	5.0000e-005	7.5000e-004	1.8000e-004	5.0000e-005	2.3000e-004	0.0000	1.9536	1.9536	1.1000e-004	0.0000	1.9564
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2800e-003	1.8300e-003	0.0185	4.0000e-005	3.5200e-003	3.0000e-005	3.5500e-003	9.4000e-004	3.0000e-005	9.6000e-004	0.0000	3.4717	3.4717	1.4000e-004	0.0000	3.4752
<b>Total</b>	<b>2.5400e-003</b>	<b>0.0104</b>	<b>0.0200</b>	<b>6.0000e-005</b>	<b>4.2200e-003</b>	<b>8.0000e-005</b>	<b>4.3000e-003</b>	<b>1.1200e-003</b>	<b>8.0000e-005</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>5.4253</b>	<b>5.4253</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>5.4317</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	0.1913					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0294	0.1934	0.1653	2.6000e-004		0.0153	0.0153		0.0153	0.0153	0.0000	22.5963	22.5963	2.3900e-003	0.0000	22.6559
<b>Total</b>	<b>0.2207</b>	<b>0.1934</b>	<b>0.1653</b>	<b>2.6000e-004</b>		<b>0.0153</b>	<b>0.0153</b>		<b>0.0153</b>	<b>0.0153</b>	<b>0.0000</b>	<b>22.5963</b>	<b>22.5963</b>	<b>2.3900e-003</b>	<b>0.0000</b>	<b>22.6559</b>

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**3.6 Architectural Coating - 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	2.6000e-004	8.5600e-003	1.5000e-003	2.0000e-005	7.0000e-004	5.0000e-005	7.5000e-004	1.8000e-004	5.0000e-005	2.3000e-004	0.0000	1.9536	1.9536	1.1000e-004	0.0000	1.9564
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2800e-003	1.8300e-003	0.0185	4.0000e-005	3.5200e-003	3.0000e-005	3.5500e-003	9.4000e-004	3.0000e-005	9.6000e-004	0.0000	3.4717	3.4717	1.4000e-004	0.0000	3.4752
<b>Total</b>	<b>2.5400e-003</b>	<b>0.0104</b>	<b>0.0200</b>	<b>6.0000e-005</b>	<b>4.2200e-003</b>	<b>8.0000e-005</b>	<b>4.3000e-003</b>	<b>1.1200e-003</b>	<b>8.0000e-005</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>5.4253</b>	<b>5.4253</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>5.4317</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	tons/yr										MT/yr					
Archit. Coating	0.1643					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0227	0.1524	0.1409	2.3000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	19.4048	19.4048	1.8400e-003	0.0000	19.4509
<b>Total</b>	<b>0.1870</b>	<b>0.1524</b>	<b>0.1409</b>	<b>2.3000e-004</b>		<b>0.0114</b>	<b>0.0114</b>		<b>0.0114</b>	<b>0.0114</b>	<b>0.0000</b>	<b>19.4048</b>	<b>19.4048</b>	<b>1.8400e-003</b>	<b>0.0000</b>	<b>19.4509</b>

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**3.6 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	1.9000e-004	6.7800e-003	1.1700e-003	2.0000e-005	6.8000e-004	3.0000e-005	7.1000e-004	1.8000e-004	3.0000e-005	2.1000e-004	0.0000	1.6646	1.6646	9.0000e-005	0.0000	1.6669
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7400e-003	1.3700e-003	0.0139	3.0000e-005	3.0200e-003	2.0000e-005	3.0500e-003	8.0000e-004	2.0000e-005	8.3000e-004	0.0000	2.8991	2.8991	1.1000e-004	0.0000	2.9017
<b>Total</b>	<b>1.9300e-003</b>	<b>8.1500e-003</b>	<b>0.0151</b>	<b>5.0000e-005</b>	<b>3.7000e-003</b>	<b>5.0000e-005</b>	<b>3.7600e-003</b>	<b>9.8000e-004</b>	<b>5.0000e-005</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>4.5636</b>	<b>4.5636</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>4.5686</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	0.1643					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0227	0.1524	0.1409	2.3000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	19.4047	19.4047	1.8400e-003	0.0000	19.4508
<b>Total</b>	<b>0.1870</b>	<b>0.1524</b>	<b>0.1409</b>	<b>2.3000e-004</b>		<b>0.0114</b>	<b>0.0114</b>		<b>0.0114</b>	<b>0.0114</b>	<b>0.0000</b>	<b>19.4047</b>	<b>19.4047</b>	<b>1.8400e-003</b>	<b>0.0000</b>	<b>19.4508</b>

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**3.6 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	1.9000e-004	6.7800e-003	1.1700e-003	2.0000e-005	6.8000e-004	3.0000e-005	7.1000e-004	1.8000e-004	3.0000e-005	2.1000e-004	0.0000	1.6646	1.6646	9.0000e-005	0.0000	1.6669
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7400e-003	1.3700e-003	0.0139	3.0000e-005	3.0200e-003	2.0000e-005	3.0500e-003	8.0000e-004	2.0000e-005	8.3000e-004	0.0000	2.8991	2.8991	1.1000e-004	0.0000	2.9017
<b>Total</b>	<b>1.9300e-003</b>	<b>8.1500e-003</b>	<b>0.0151</b>	<b>5.0000e-005</b>	<b>3.7000e-003</b>	<b>5.0000e-005</b>	<b>3.7600e-003</b>	<b>9.8000e-004</b>	<b>5.0000e-005</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>4.5636</b>	<b>4.5636</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>4.5686</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive 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	1.1085	5.8624	11.2717	0.0299	2.0339	0.0394	2.0733	0.5461	0.0372	0.5833	0.0000	2,747.8600	2,747.8600	0.1752	0.0000	2,752.2410
Unmitigated	1.1085	5.8624	11.2717	0.0299	2.0339	0.0394	2.0733	0.5461	0.0372	0.5833	0.0000	2,747.8600	2,747.8600	0.1752	0.0000	2,752.2410

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	3,089.54	3,089.54	3,089.54	5,416,897	5,416,897
Total	3,089.54	3,089.54	3,089.54	5,416,897	5,416,897

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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.538490	0.042798	0.192235	0.127680	0.022257	0.006091	0.018182	0.040521	0.002016	0.002161	0.005611	0.000824	0.001135
Regional Shopping Center	0.538490	0.042798	0.192235	0.127680	0.022257	0.006091	0.018182	0.040521	0.002016	0.002161	0.005611	0.000824	0.001135

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**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					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	129.4259	129.4259	5.8500e-003	1.2100e-003	129.9331
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	129.4259	129.4259	5.8500e-003	1.2100e-003	129.9331
NaturalGas Mitigated	1.1500e-003	0.0105	8.8100e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	11.4132	11.4132	2.2000e-004	2.1000e-004	11.4810
NaturalGas Unmitigated	1.1500e-003	0.0105	8.8100e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	11.4132	11.4132	2.2000e-004	2.1000e-004	11.4810

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**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					
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
Regional Shopping Center	213875	1.1500e-003	0.0105	8.8100e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	11.4132	11.4132	2.2000e-004	2.1000e-004	11.4810
<b>Total</b>		<b>1.1500e-003</b>	<b>0.0105</b>	<b>8.8100e-003</b>	<b>6.0000e-005</b>		<b>8.0000e-004</b>	<b>8.0000e-004</b>		<b>8.0000e-004</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>11.4132</b>	<b>11.4132</b>	<b>2.2000e-004</b>	<b>2.1000e-004</b>	<b>11.4810</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	tons/yr										MT/yr					
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
Regional Shopping Center	213875	1.1500e-003	0.0105	8.8100e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	11.4132	11.4132	2.2000e-004	2.1000e-004	11.4810
<b>Total</b>		<b>1.1500e-003</b>	<b>0.0105</b>	<b>8.8100e-003</b>	<b>6.0000e-005</b>		<b>8.0000e-004</b>	<b>8.0000e-004</b>		<b>8.0000e-004</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>11.4132</b>	<b>11.4132</b>	<b>2.2000e-004</b>	<b>2.1000e-004</b>	<b>11.4810</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	34848	10.1377	4.6000e-004	9.0000e-005	10.1774
Regional Shopping Center	410050	119.2883	5.3900e-003	1.1200e-003	119.7557
<b>Total</b>		<b>129.4259</b>	<b>5.8500e-003</b>	<b>1.2100e-003</b>	<b>129.9331</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	34848	10.1377	4.6000e-004	9.0000e-005	10.1774
Regional Shopping Center	410050	119.2883	5.3900e-003	1.1200e-003	119.7557
<b>Total</b>		<b>129.4259</b>	<b>5.8500e-003</b>	<b>1.2100e-003</b>	<b>129.9331</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive 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	0.1535	1.0000e-005	1.2000e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3000e-003	2.3000e-003	1.0000e-005	0.0000	2.4500e-003
Unmitigated	0.1535	1.0000e-005	1.2000e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3000e-003	2.3000e-003	1.0000e-005	0.0000	2.4500e-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	0.0356					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1178					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1000e-004	1.0000e-005	1.2000e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3000e-003	2.3000e-003	1.0000e-005	0.0000	2.4500e-003
<b>Total</b>	<b>0.1534</b>	<b>1.0000e-005</b>	<b>1.2000e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.3000e-003</b>	<b>2.3000e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.4500e-003</b>

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**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	0.0356					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1178					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1000e-004	1.0000e-005	1.2000e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3000e-003	2.3000e-003	1.0000e-005	0.0000	2.4500e-003
<b>Total</b>	<b>0.1534</b>	<b>1.0000e-005</b>	<b>1.2000e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.3000e-003</b>	<b>2.3000e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.4500e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Hare Creek Center - Statewide , Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	9.3978	0.0716	1.7600e-003	11.7130
Unmitigated	9.3978	0.0716	1.7600e-003	11.7130

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.18514 / 1.33928	9.3978	0.0716	1.7600e-003	11.7130
<b>Total</b>		<b>9.3978</b>	<b>0.0716</b>	<b>1.7600e-003</b>	<b>11.7130</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.18514 / 1.33928	9.3978	0.0716	1.7600e-003	11.7130
<b>Total</b>		<b>9.3978</b>	<b>0.0716</b>	<b>1.7600e-003</b>	<b>11.7130</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.2887	0.3717	0.0000	15.5799
Unmitigated	6.2887	0.3717	0.0000	15.5799

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	30.98	6.2887	0.3717	0.0000	15.5799
<b>Total</b>		<b>6.2887</b>	<b>0.3717</b>	<b>0.0000</b>	<b>15.5799</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	30.98	6.2887	0.3717	0.0000	15.5799
<b>Total</b>		<b>6.2887</b>	<b>0.3717</b>	<b>0.0000</b>	<b>15.5799</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Hare Creek Center - Statewide , Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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