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**APPENDIX C**  
**CALEEMOD OUTPUTS FOR**  
**AIR QUALITY EMISSIONS**

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Hare Creek Center - Statewide , Summer

## Hare Creek Center Statewide , Summer

### 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/MW hr)</b>	641.35	<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 - 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 -

## Hare Creek Center - Statewide , Summer

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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Hare Creek Center - Statewide , Summer

**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	0.8415	1.2000e-004	0.0133	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0281	0.0281	8.0000e-005		0.0301
Energy	6.3200e-003	0.0575	0.0483	3.4000e-004		4.3700e-003	4.3700e-003		4.3700e-003	4.3700e-003		68.9363	68.9363	1.3200e-003	1.2600e-003	69.3460
Mobile	6.8536	31.3694	63.4063	0.1724	11.5393	0.2149	11.7542	3.0898	0.2029	3.2927		17,480.3132	17,480.3132	1.0552		17,506.6932
<b>Total</b>	<b>7.7014</b>	<b>31.4270</b>	<b>63.4679</b>	<b>0.1727</b>	<b>11.5393</b>	<b>0.2193</b>	<b>11.7586</b>	<b>3.0898</b>	<b>0.2073</b>	<b>3.2971</b>		<b>17,549.2776</b>	<b>17,549.2776</b>	<b>1.0566</b>	<b>1.2600e-003</b>	<b>17,576.0692</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	0.8415	1.2000e-004	0.0133	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0281	0.0281	8.0000e-005		0.0301
Energy	6.3200e-003	0.0575	0.0483	3.4000e-004		4.3700e-003	4.3700e-003		4.3700e-003	4.3700e-003		68.9363	68.9363	1.3200e-003	1.2600e-003	69.3460
Mobile	6.8536	31.3694	63.4063	0.1724	11.5393	0.2149	11.7542	3.0898	0.2029	3.2927		17,480.3132	17,480.3132	1.0552		17,506.6932
<b>Total</b>	<b>7.7014</b>	<b>31.4270</b>	<b>63.4679</b>	<b>0.1727</b>	<b>11.5393</b>	<b>0.2193</b>	<b>11.7586</b>	<b>3.0898</b>	<b>0.2073</b>	<b>3.2971</b>		<b>17,549.2776</b>	<b>17,549.2776</b>	<b>1.0566</b>	<b>1.2600e-003</b>	<b>17,576.0692</b>

## Hare Creek Center - Statewide , Summer

	ROG	NOx	CO	SO2	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

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#### Construction Phase

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

Hare Creek Center - Statewide , Summer

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



Hare Creek Center - Statewide , Summer

**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	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483		3,894.9500	3,894.9500	1.1934		3,924.7852
<b>Total</b>	<b>4.9608</b>	<b>52.2754</b>	<b>23.4554</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.8786</b>	<b>20.9448</b>	<b>9.9307</b>	<b>2.6483</b>	<b>12.5790</b>		<b>3,894.9500</b>	<b>3,894.9500</b>	<b>1.1934</b>		<b>3,924.7852</b>

Hare Creek Center - Statewide , Summer

**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	lb/day										lb/day					
Hauling	0.0502	1.6156	0.2796	3.9700e-003	0.0850	9.4400e-003	0.0944	0.0233	9.0300e-003	0.0323		421.5477	421.5477	0.0235		422.1346
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	0.0972	0.0666	0.8107	1.6700e-003	0.1479	1.1800e-003	0.1491	0.0392	1.0900e-003	0.0403		165.8616	165.8616	6.6500e-003		166.0278
<b>Total</b>	<b>0.1474</b>	<b>1.6822</b>	<b>1.0903</b>	<b>5.6400e-003</b>	<b>0.2328</b>	<b>0.0106</b>	<b>0.2435</b>	<b>0.0625</b>	<b>0.0101</b>	<b>0.0726</b>		<b>587.4093</b>	<b>587.4093</b>	<b>0.0301</b>		<b>588.1624</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	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483	0.0000	3,894.9500	3,894.9500	1.1934		3,924.7852
<b>Total</b>	<b>4.9608</b>	<b>52.2754</b>	<b>23.4554</b>	<b>0.0380</b>	<b>8.1298</b>	<b>2.8786</b>	<b>11.0084</b>	<b>4.4688</b>	<b>2.6483</b>	<b>7.1171</b>	<b>0.0000</b>	<b>3,894.9500</b>	<b>3,894.9500</b>	<b>1.1934</b>		<b>3,924.7852</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	lb/day										lb/day					
Hauling	0.0502	1.6156	0.2796	3.9700e-003	0.0850	9.4400e-003	0.0944	0.0233	9.0300e-003	0.0323		421.5477	421.5477	0.0235		422.1346
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	0.0972	0.0666	0.8107	1.6700e-003	0.1479	1.1800e-003	0.1491	0.0392	1.0900e-003	0.0403		165.8616	165.8616	6.6500e-003		166.0278
<b>Total</b>	<b>0.1474</b>	<b>1.6822</b>	<b>1.0903</b>	<b>5.6400e-003</b>	<b>0.2328</b>	<b>0.0106</b>	<b>0.2435</b>	<b>0.0625</b>	<b>0.0101</b>	<b>0.0726</b>		<b>587.4093</b>	<b>587.4093</b>	<b>0.0301</b>		<b>588.1624</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					6.5966	0.0000	6.5966	3.3742	0.0000	3.3742			0.0000			0.0000
Off-Road	3.0705	33.8868	17.1042	0.0297		1.7774	1.7774		1.6352	1.6352		3,037.9107	3,037.9107	0.9308		3,061.1809
<b>Total</b>	<b>3.0705</b>	<b>33.8868</b>	<b>17.1042</b>	<b>0.0297</b>	<b>6.5966</b>	<b>1.7774</b>	<b>8.3740</b>	<b>3.3742</b>	<b>1.6352</b>	<b>5.0094</b>		<b>3,037.9107</b>	<b>3,037.9107</b>	<b>0.9308</b>		<b>3,061.1809</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	lb/day										lb/day					
Hauling	0.4699	15.1192	2.6166	0.0372	0.7951	0.0884	0.8834	0.2180	0.0845	0.3025		3,944.9655	3,944.9655	0.2197		3,950.4576
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	0.0810	0.0555	0.6756	1.3900e-003	0.1232	9.8000e-004	0.1242	0.0327	9.1000e-004	0.0336		138.2180	138.2180	5.5400e-003		138.3565
<b>Total</b>	<b>0.5509</b>	<b>15.1747</b>	<b>3.2921</b>	<b>0.0385</b>	<b>0.9183</b>	<b>0.0893</b>	<b>1.0076</b>	<b>0.2506</b>	<b>0.0855</b>	<b>0.3361</b>		<b>4,083.1834</b>	<b>4,083.1834</b>	<b>0.2252</b>		<b>4,088.8141</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	lb/day										lb/day					
Fugitive Dust					2.9685	0.0000	2.9685	1.5184	0.0000	1.5184			0.0000			0.0000
Off-Road	3.0705	33.8868	17.1042	0.0297		1.7774	1.7774		1.6352	1.6352	0.0000	3,037.9107	3,037.9107	0.9308		3,061.1809
<b>Total</b>	<b>3.0705</b>	<b>33.8868</b>	<b>17.1042</b>	<b>0.0297</b>	<b>2.9685</b>	<b>1.7774</b>	<b>4.7459</b>	<b>1.5184</b>	<b>1.6352</b>	<b>3.1536</b>	<b>0.0000</b>	<b>3,037.9107</b>	<b>3,037.9107</b>	<b>0.9308</b>		<b>3,061.1809</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	lb/day										lb/day					
Hauling	0.4699	15.1192	2.6166	0.0372	0.7951	0.0884	0.8834	0.2180	0.0845	0.3025		3,944.9655	3,944.9655	0.2197		3,950.4576
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	0.0810	0.0555	0.6756	1.3900e-003	0.1232	9.8000e-004	0.1242	0.0327	9.1000e-004	0.0336		138.2180	138.2180	5.5400e-003		138.3565
<b>Total</b>	<b>0.5509</b>	<b>15.1747</b>	<b>3.2921</b>	<b>0.0385</b>	<b>0.9183</b>	<b>0.0893</b>	<b>1.0076</b>	<b>0.2506</b>	<b>0.0855</b>	<b>0.3361</b>		<b>4,083.1834</b>	<b>4,083.1834</b>	<b>0.2252</b>		<b>4,088.8141</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	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.9797	2,650.9797	0.6531		2,667.3078
<b>Total</b>	<b>3.1149</b>	<b>26.5546</b>	<b>18.1825</b>	<b>0.0269</b>		<b>1.7879</b>	<b>1.7879</b>		<b>1.6791</b>	<b>1.6791</b>		<b>2,650.9797</b>	<b>2,650.9797</b>	<b>0.6531</b>		<b>2,667.3078</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	lb/day										lb/day					
Hauling	2.9200e-003	0.0940	0.0163	2.3000e-004	8.1500e-003	5.5000e-004	8.7000e-003	2.1400e-003	5.3000e-004	2.6700e-003		24.5331	24.5331	1.3700e-003		24.5673
Vendor	0.0632	1.5225	0.3982	3.1300e-003	0.0745	0.0142	0.0887	0.0215	0.0136	0.0351		330.2055	330.2055	0.0220		330.7548
Worker	0.1404	0.0961	1.1710	2.4100e-003	0.2136	1.7100e-003	0.2153	0.0567	1.5700e-003	0.0582		239.5778	239.5778	9.6000e-003		239.8179
<b>Total</b>	<b>0.2065</b>	<b>1.7126</b>	<b>1.5855</b>	<b>5.7700e-003</b>	<b>0.2962</b>	<b>0.0165</b>	<b>0.3127</b>	<b>0.0802</b>	<b>0.0157</b>	<b>0.0960</b>		<b>594.3165</b>	<b>594.3165</b>	<b>0.0329</b>		<b>595.1400</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	lb/day										lb/day					
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.9797	2,650.9797	0.6531		2,667.3078
<b>Total</b>	<b>3.1149</b>	<b>26.5546</b>	<b>18.1825</b>	<b>0.0269</b>		<b>1.7879</b>	<b>1.7879</b>		<b>1.6791</b>	<b>1.6791</b>	<b>0.0000</b>	<b>2,650.9797</b>	<b>2,650.9797</b>	<b>0.6531</b>		<b>2,667.3078</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	lb/day										lb/day					
Hauling	2.9200e-003	0.0940	0.0163	2.3000e-004	8.1500e-003	5.5000e-004	8.7000e-003	2.1400e-003	5.3000e-004	2.6700e-003		24.5331	24.5331	1.3700e-003		24.5673
Vendor	0.0632	1.5225	0.3982	3.1300e-003	0.0745	0.0142	0.0887	0.0215	0.0136	0.0351		330.2055	330.2055	0.0220		330.7548
Worker	0.1404	0.0961	1.1710	2.4100e-003	0.2136	1.7100e-003	0.2153	0.0567	1.5700e-003	0.0582		239.5778	239.5778	9.6000e-003		239.8179
<b>Total</b>	<b>0.2065</b>	<b>1.7126</b>	<b>1.5855</b>	<b>5.7700e-003</b>	<b>0.2962</b>	<b>0.0165</b>	<b>0.3127</b>	<b>0.0802</b>	<b>0.0157</b>	<b>0.0960</b>		<b>594.3165</b>	<b>594.3165</b>	<b>0.0329</b>		<b>595.1400</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	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
<b>Total</b>	<b>2.6795</b>	<b>23.3900</b>	<b>17.5804</b>	<b>0.0269</b>		<b>1.4999</b>	<b>1.4999</b>		<b>1.4099</b>	<b>1.4099</b>		<b>2,620.9351</b>	<b>2,620.9351</b>	<b>0.6421</b>		<b>2,636.9883</b>

Hare Creek Center - Statewide , Summer

**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	lb/day										lb/day					
Hauling	2.5000e-003	0.0869	0.0147	2.3000e-004	9.3000e-003	3.6000e-004	9.6600e-003	2.4200e-003	3.5000e-004	2.7700e-003		24.3482	24.3482	1.3000e-003		24.3807
Vendor	0.0547	1.4295	0.3493	3.1200e-003	0.0745	0.0113	0.0858	0.0215	0.0108	0.0322		329.3851	329.3851	0.0204		329.8956
Worker	0.1252	0.0838	1.0288	2.3400e-003	0.2136	1.6400e-003	0.2152	0.0567	1.5200e-003	0.0582		233.0105	233.0105	8.4500e-003		233.2218
<b>Total</b>	<b>0.1824</b>	<b>1.6002</b>	<b>1.3928</b>	<b>5.6900e-003</b>	<b>0.2974</b>	<b>0.0133</b>	<b>0.3107</b>	<b>0.0805</b>	<b>0.0127</b>	<b>0.0932</b>		<b>586.7438</b>	<b>586.7438</b>	<b>0.0302</b>		<b>587.4981</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	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
<b>Total</b>	<b>2.6795</b>	<b>23.3900</b>	<b>17.5804</b>	<b>0.0269</b>		<b>1.4999</b>	<b>1.4999</b>		<b>1.4099</b>	<b>1.4099</b>	<b>0.0000</b>	<b>2,620.9351</b>	<b>2,620.9351</b>	<b>0.6421</b>		<b>2,636.9883</b>



Hare Creek Center - Statewide , Summer

**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	lb/day										lb/day					
Hauling	2.5000e-003	0.0869	0.0147	2.3000e-004	9.3000e-003	3.6000e-004	9.6600e-003	2.4200e-003	3.5000e-004	2.7700e-003		24.3482	24.3482	1.3000e-003		24.3807
Vendor	0.0547	1.4295	0.3493	3.1200e-003	0.0745	0.0113	0.0858	0.0215	0.0108	0.0322		329.3851	329.3851	0.0204		329.8956
Worker	0.1252	0.0838	1.0288	2.3400e-003	0.2136	1.6400e-003	0.2152	0.0567	1.5200e-003	0.0582		233.0105	233.0105	8.4500e-003		233.2218
<b>Total</b>	<b>0.1824</b>	<b>1.6002</b>	<b>1.3928</b>	<b>5.6900e-003</b>	<b>0.2974</b>	<b>0.0133</b>	<b>0.3107</b>	<b>0.0805</b>	<b>0.0127</b>	<b>0.0932</b>		<b>586.7438</b>	<b>586.7438</b>	<b>0.0302</b>		<b>587.4981</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	1.6763	17.0389	12.6556	0.0189		1.0172	1.0172		0.9376	0.9376		1,901.7766	1,901.7766	0.5674		1,915.9604
Paving	0.0143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.6906</b>	<b>17.0389</b>	<b>12.6556</b>	<b>0.0189</b>		<b>1.0172</b>	<b>1.0172</b>		<b>0.9376</b>	<b>0.9376</b>		<b>1,901.7766</b>	<b>1,901.7766</b>	<b>0.5674</b>		<b>1,915.9604</b>

Hare Creek Center - Statewide , Summer

**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	lb/day										lb/day					
Hauling	2.9200e-003	0.0940	0.0163	2.3000e-004	8.1500e-003	5.5000e-004	8.7000e-003	2.1400e-003	5.3000e-004	2.6700e-003		24.5331	24.5331	1.3700e-003		24.5673
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	0.1080	0.0740	0.9008	1.8500e-003	0.1643	1.3100e-003	0.1656	0.0436	1.2100e-003	0.0448		184.2906	184.2906	7.3900e-003		184.4753
<b>Total</b>	<b>0.1109</b>	<b>0.1680</b>	<b>0.9171</b>	<b>2.0800e-003</b>	<b>0.1725</b>	<b>1.8600e-003</b>	<b>0.1743</b>	<b>0.0457</b>	<b>1.7400e-003</b>	<b>0.0475</b>		<b>208.8238</b>	<b>208.8238</b>	<b>8.7600e-003</b>		<b>209.0426</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	lb/day										lb/day					
Off-Road	1.6763	17.0389	12.6556	0.0189		1.0172	1.0172		0.9376	0.9376	0.0000	1,901.7766	1,901.7766	0.5674		1,915.9604
Paving	0.0143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.6906</b>	<b>17.0389</b>	<b>12.6556</b>	<b>0.0189</b>		<b>1.0172</b>	<b>1.0172</b>		<b>0.9376</b>	<b>0.9376</b>	<b>0.0000</b>	<b>1,901.7766</b>	<b>1,901.7766</b>	<b>0.5674</b>		<b>1,915.9604</b>

Hare Creek Center - Statewide , Summer

**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	lb/day										lb/day					
Hauling	2.9200e-003	0.0940	0.0163	2.3000e-004	8.1500e-003	5.5000e-004	8.7000e-003	2.1400e-003	5.3000e-004	2.6700e-003		24.5331	24.5331	1.3700e-003		24.5673
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	0.1080	0.0740	0.9008	1.8500e-003	0.1643	1.3100e-003	0.1656	0.0436	1.2100e-003	0.0448		184.2906	184.2906	7.3900e-003		184.4753
<b>Total</b>	<b>0.1109</b>	<b>0.1680</b>	<b>0.9171</b>	<b>2.0800e-003</b>	<b>0.1725</b>	<b>1.8600e-003</b>	<b>0.1743</b>	<b>0.0457</b>	<b>1.7400e-003</b>	<b>0.0475</b>		<b>208.8238</b>	<b>208.8238</b>	<b>8.7600e-003</b>		<b>209.0426</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	lb/day										lb/day					
Off-Road	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718		1,872.5505	1,872.5505	0.5672		1,886.7312
Paving	0.0143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4382</b>	<b>14.5184</b>	<b>12.4333</b>	<b>0.0189</b>		<b>0.8370</b>	<b>0.8370</b>		<b>0.7718</b>	<b>0.7718</b>		<b>1,872.5505</b>	<b>1,872.5505</b>	<b>0.5672</b>		<b>1,886.7312</b>

Hare Creek Center - Statewide , Summer

**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	lb/day										lb/day					
Hauling	2.5000e-003	0.0869	0.0147	2.3000e-004	9.3000e-003	3.6000e-004	9.6600e-003	2.4200e-003	3.5000e-004	2.7700e-003		24.3482	24.3482	1.3000e-003		24.3807
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	0.0963	0.0645	0.7914	1.8000e-003	0.1643	1.2600e-003	0.1656	0.0436	1.1700e-003	0.0447		179.2389	179.2389	6.5000e-003		179.4014
<b>Total</b>	<b>0.0988</b>	<b>0.1514</b>	<b>0.8060</b>	<b>2.0300e-003</b>	<b>0.1736</b>	<b>1.6200e-003</b>	<b>0.1752</b>	<b>0.0460</b>	<b>1.5200e-003</b>	<b>0.0475</b>		<b>203.5871</b>	<b>203.5871</b>	<b>7.8000e-003</b>		<b>203.7821</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	lb/day										lb/day					
Off-Road	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718	0.0000	1,872.5505	1,872.5505	0.5672		1,886.7312
Paving	0.0143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4382</b>	<b>14.5184</b>	<b>12.4333</b>	<b>0.0189</b>		<b>0.8370</b>	<b>0.8370</b>		<b>0.7718</b>	<b>0.7718</b>	<b>0.0000</b>	<b>1,872.5505</b>	<b>1,872.5505</b>	<b>0.5672</b>		<b>1,886.7312</b>

Hare Creek Center - Statewide , Summer

**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	lb/day										lb/day					
Hauling	2.5000e-003	0.0869	0.0147	2.3000e-004	9.3000e-003	3.6000e-004	9.6600e-003	2.4200e-003	3.5000e-004	2.7700e-003		24.3482	24.3482	1.3000e-003		24.3807
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	0.0963	0.0645	0.7914	1.8000e-003	0.1643	1.2600e-003	0.1656	0.0436	1.1700e-003	0.0447		179.2389	179.2389	6.5000e-003		179.4014
<b>Total</b>	<b>0.0988</b>	<b>0.1514</b>	<b>0.8060</b>	<b>2.0300e-003</b>	<b>0.1736</b>	<b>1.6200e-003</b>	<b>0.1752</b>	<b>0.0460</b>	<b>1.5200e-003</b>	<b>0.0475</b>		<b>203.5871</b>	<b>203.5871</b>	<b>7.8000e-003</b>		<b>203.7821</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	2.1617					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		282.1909
<b>Total</b>	<b>2.4940</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>282.1909</b>

Hare Creek Center - Statewide , Summer

**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	lb/day										lb/day					
Hauling	2.9200e-003	0.0940	0.0163	2.3000e-004	8.1500e-003	5.5000e-004	8.7000e-003	2.1400e-003	5.3000e-004	2.6700e-003		24.5331	24.5331	1.3700e-003		24.5673
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	0.0270	0.0185	0.2252	4.6000e-004	0.0411	3.3000e-004	0.0414	0.0109	3.0000e-004	0.0112		46.0727	46.0727	1.8500e-003		46.1188
<b>Total</b>	<b>0.0299</b>	<b>0.1125</b>	<b>0.2415</b>	<b>6.9000e-004</b>	<b>0.0492</b>	<b>8.8000e-004</b>	<b>0.0501</b>	<b>0.0130</b>	<b>8.3000e-004</b>	<b>0.0139</b>		<b>70.6058</b>	<b>70.6058</b>	<b>3.2200e-003</b>		<b>70.6861</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	lb/day										lb/day					
Archit. Coating	2.1617					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		282.1909
<b>Total</b>	<b>2.4940</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>282.1909</b>

Hare Creek Center - Statewide , Summer

**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	lb/day										lb/day					
Hauling	2.9200e-003	0.0940	0.0163	2.3000e-004	8.1500e-003	5.5000e-004	8.7000e-003	2.1400e-003	5.3000e-004	2.6700e-003		24.5331	24.5331	1.3700e-003		24.5673
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	0.0270	0.0185	0.2252	4.6000e-004	0.0411	3.3000e-004	0.0414	0.0109	3.0000e-004	0.0112		46.0727	46.0727	1.8500e-003		46.1188
<b>Total</b>	<b>0.0299</b>	<b>0.1125</b>	<b>0.2415</b>	<b>6.9000e-004</b>	<b>0.0492</b>	<b>8.8000e-004</b>	<b>0.0501</b>	<b>0.0130</b>	<b>8.3000e-004</b>	<b>0.0139</b>		<b>70.6058</b>	<b>70.6058</b>	<b>3.2200e-003</b>		<b>70.6861</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	2.1617					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		282.1171
<b>Total</b>	<b>2.4603</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>282.1171</b>

Hare Creek Center - Statewide , Summer

**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	lb/day										lb/day					
Hauling	2.5000e-003	0.0869	0.0147	2.3000e-004	9.3000e-003	3.6000e-004	9.6600e-003	2.4200e-003	3.5000e-004	2.7700e-003		24.3482	24.3482	1.3000e-003		24.3807
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	0.0241	0.0161	0.1978	4.5000e-004	0.0411	3.2000e-004	0.0414	0.0109	2.9000e-004	0.0112		44.8097	44.8097	1.6300e-003		44.8504
<b>Total</b>	<b>0.0266</b>	<b>0.1030</b>	<b>0.2125</b>	<b>6.8000e-004</b>	<b>0.0504</b>	<b>6.8000e-004</b>	<b>0.0511</b>	<b>0.0133</b>	<b>6.4000e-004</b>	<b>0.0140</b>		<b>69.1579</b>	<b>69.1579</b>	<b>2.9300e-003</b>		<b>69.2310</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	lb/day										lb/day					
Archit. Coating	2.1617					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		282.1171
<b>Total</b>	<b>2.4603</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>282.1171</b>



Hare Creek Center - Statewide , Summer

**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	lb/day										lb/day					
Hauling	2.5000e-003	0.0869	0.0147	2.3000e-004	9.3000e-003	3.6000e-004	9.6600e-003	2.4200e-003	3.5000e-004	2.7700e-003		24.3482	24.3482	1.3000e-003		24.3807
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	0.0241	0.0161	0.1978	4.5000e-004	0.0411	3.2000e-004	0.0414	0.0109	2.9000e-004	0.0112		44.8097	44.8097	1.6300e-003		44.8504
<b>Total</b>	<b>0.0266</b>	<b>0.1030</b>	<b>0.2125</b>	<b>6.8000e-004</b>	<b>0.0504</b>	<b>6.8000e-004</b>	<b>0.0511</b>	<b>0.0133</b>	<b>6.4000e-004</b>	<b>0.0140</b>		<b>69.1579</b>	<b>69.1579</b>	<b>2.9300e-003</b>		<b>69.2310</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Hare Creek Center - Statewide , Summer

	ROG	NOx	CO	SO2	Fugitive 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	6.8536	31.3694	63.4063	0.1724	11.5393	0.2149	11.7542	3.0898	0.2029	3.2927		17,480.31 32	17,480.31 32	1.0552		17,506.69 32
Unmitigated	6.8536	31.3694	63.4063	0.1724	11.5393	0.2149	11.7542	3.0898	0.2029	3.2927		17,480.31 32	17,480.31 32	1.0552		17,506.69 32

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

Hare Creek Center - Statewide , Summer

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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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	lb/day										lb/day					
NaturalGas Mitigated	6.3200e-003	0.0575	0.0483	3.4000e-004		4.3700e-003	4.3700e-003		4.3700e-003	4.3700e-003		68.9363	68.9363	1.3200e-003	1.2600e-003	69.3460
NaturalGas Unmitigated	6.3200e-003	0.0575	0.0483	3.4000e-004		4.3700e-003	4.3700e-003		4.3700e-003	4.3700e-003		68.9363	68.9363	1.3200e-003	1.2600e-003	69.3460

Hare Creek Center - Statewide , Summer

**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					
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
Regional Shopping Center	585.959	6.3200e-003	0.0575	0.0483	3.4000e-004		4.3700e-003	4.3700e-003		4.3700e-003	4.3700e-003		68.9363	68.9363	1.3200e-003	1.2600e-003	69.3460
<b>Total</b>		<b>6.3200e-003</b>	<b>0.0575</b>	<b>0.0483</b>	<b>3.4000e-004</b>		<b>4.3700e-003</b>	<b>4.3700e-003</b>		<b>4.3700e-003</b>	<b>4.3700e-003</b>		<b>68.9363</b>	<b>68.9363</b>	<b>1.3200e-003</b>	<b>1.2600e-003</b>	<b>69.3460</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					
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
Regional Shopping Center	0.585959	6.3200e-003	0.0575	0.0483	3.4000e-004		4.3700e-003	4.3700e-003		4.3700e-003	4.3700e-003		68.9363	68.9363	1.3200e-003	1.2600e-003	69.3460
<b>Total</b>		<b>6.3200e-003</b>	<b>0.0575</b>	<b>0.0483</b>	<b>3.4000e-004</b>		<b>4.3700e-003</b>	<b>4.3700e-003</b>		<b>4.3700e-003</b>	<b>4.3700e-003</b>		<b>68.9363</b>	<b>68.9363</b>	<b>1.3200e-003</b>	<b>1.2600e-003</b>	<b>69.3460</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Hare Creek Center - Statewide , Summer

	ROG	NOx	CO	SO2	Fugitive 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	0.8415	1.2000e-004	0.0133	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0281	0.0281	8.0000e-005		0.0301
Unmitigated	0.8415	1.2000e-004	0.0133	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0281	0.0281	8.0000e-005		0.0301

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	0.1949					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6453					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2700e-003	1.2000e-004	0.0133	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0281	0.0281	8.0000e-005		0.0301
<b>Total</b>	<b>0.8415</b>	<b>1.2000e-004</b>	<b>0.0133</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0281</b>	<b>0.0281</b>	<b>8.0000e-005</b>		<b>0.0301</b>

Hare Creek Center - Statewide , Summer

**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	0.1949					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6453					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2700e-003	1.2000e-004	0.0133	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0281	0.0281	8.0000e-005		0.0301
<b>Total</b>	<b>0.8415</b>	<b>1.2000e-004</b>	<b>0.0133</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0281</b>	<b>0.0281</b>	<b>8.0000e-005</b>		<b>0.0301</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 Stationary Equipment**

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Fire Pumps and Emergency Generators

Hare Creek Center - Statewide , Summer

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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Hare Creek Center - Statewide , Winter

**Hare Creek Center  
Statewide , Winter**

**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 -



## Hare Creek Center - Statewide , Winter

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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Hare Creek Center - Statewide , Winter

**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	0.8415	1.2000e-004	0.0133	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0281	0.0281	8.0000e-005		0.0301
Energy	6.3200e-003	0.0575	0.0483	3.4000e-004		4.3700e-003	4.3700e-003		4.3700e-003	4.3700e-003		68.9363	68.9363	1.3200e-003	1.2600e-003	69.3460
Mobile	6.1631	32.1427	63.4780	0.1611	11.5393	0.2187	11.7580	3.0898	0.2066	3.2964		16,342.0060	16,342.0060	1.0895		16,369.2445
<b>Total</b>	<b>7.0108</b>	<b>32.2003</b>	<b>63.5396</b>	<b>0.1615</b>	<b>11.5393</b>	<b>0.2232</b>	<b>11.7624</b>	<b>3.0898</b>	<b>0.2110</b>	<b>3.3008</b>		<b>16,410.9704</b>	<b>16,410.9704</b>	<b>1.0909</b>	<b>1.2600e-003</b>	<b>16,438.6206</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	0.8415	1.2000e-004	0.0133	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0281	0.0281	8.0000e-005		0.0301
Energy	6.3200e-003	0.0575	0.0483	3.4000e-004		4.3700e-003	4.3700e-003		4.3700e-003	4.3700e-003		68.9363	68.9363	1.3200e-003	1.2600e-003	69.3460
Mobile	6.1631	32.1427	63.4780	0.1611	11.5393	0.2187	11.7580	3.0898	0.2066	3.2964		16,342.0060	16,342.0060	1.0895		16,369.2445
<b>Total</b>	<b>7.0108</b>	<b>32.2003</b>	<b>63.5396</b>	<b>0.1615</b>	<b>11.5393</b>	<b>0.2232</b>	<b>11.7624</b>	<b>3.0898</b>	<b>0.2110</b>	<b>3.3008</b>		<b>16,410.9704</b>	<b>16,410.9704</b>	<b>1.0909</b>	<b>1.2600e-003</b>	<b>16,438.6206</b>

Hare Creek Center - Statewide , Winter

	ROG	NOx	CO	SO2	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	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

Hare Creek Center - Statewide , Winter

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

Hare Creek Center - Statewide , Winter

**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	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483		3,894.950 0	3,894.950 0	1.1934		3,924.785 2
<b>Total</b>	<b>4.9608</b>	<b>52.2754</b>	<b>23.4554</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.8786</b>	<b>20.9448</b>	<b>9.9307</b>	<b>2.6483</b>	<b>12.5790</b>		<b>3,894.950 0</b>	<b>3,894.950 0</b>	<b>1.1934</b>		<b>3,924.785 2</b>

Hare Creek Center - Statewide , Winter

**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	lb/day										lb/day					
Hauling	0.0519	1.6529	0.3094	3.8900e-003	0.0850	9.6200e-003	0.0946	0.0233	9.2100e-003	0.0325		413.3640	413.3640	0.0252		413.9933
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	0.1017	0.0769	0.7497	1.5400e-003	0.1479	1.1800e-003	0.1491	0.0392	1.0900e-003	0.0403		152.9795	152.9795	6.2400e-003		153.1356
<b>Total</b>	<b>0.1536</b>	<b>1.7298</b>	<b>1.0591</b>	<b>5.4300e-003</b>	<b>0.2328</b>	<b>0.0108</b>	<b>0.2436</b>	<b>0.0625</b>	<b>0.0103</b>	<b>0.0728</b>		<b>566.3435</b>	<b>566.3435</b>	<b>0.0314</b>		<b>567.1289</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	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483	0.0000	3,894.9500	3,894.9500	1.1934		3,924.7852
<b>Total</b>	<b>4.9608</b>	<b>52.2754</b>	<b>23.4554</b>	<b>0.0380</b>	<b>8.1298</b>	<b>2.8786</b>	<b>11.0084</b>	<b>4.4688</b>	<b>2.6483</b>	<b>7.1171</b>	<b>0.0000</b>	<b>3,894.9500</b>	<b>3,894.9500</b>	<b>1.1934</b>		<b>3,924.7852</b>

Hare Creek Center - Statewide , Winter

**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	lb/day										lb/day					
Hauling	0.0519	1.6529	0.3094	3.8900e-003	0.0850	9.6200e-003	0.0946	0.0233	9.2100e-003	0.0325		413.3640	413.3640	0.0252		413.9933
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	0.1017	0.0769	0.7497	1.5400e-003	0.1479	1.1800e-003	0.1491	0.0392	1.0900e-003	0.0403		152.9795	152.9795	6.2400e-003		153.1356
<b>Total</b>	<b>0.1536</b>	<b>1.7298</b>	<b>1.0591</b>	<b>5.4300e-003</b>	<b>0.2328</b>	<b>0.0108</b>	<b>0.2436</b>	<b>0.0625</b>	<b>0.0103</b>	<b>0.0728</b>		<b>566.3435</b>	<b>566.3435</b>	<b>0.0314</b>		<b>567.1289</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					6.5966	0.0000	6.5966	3.3742	0.0000	3.3742			0.0000			0.0000
Off-Road	3.0705	33.8868	17.1042	0.0297		1.7774	1.7774		1.6352	1.6352		3,037.9107	3,037.9107	0.9308		3,061.1809
<b>Total</b>	<b>3.0705</b>	<b>33.8868</b>	<b>17.1042</b>	<b>0.0297</b>	<b>6.5966</b>	<b>1.7774</b>	<b>8.3740</b>	<b>3.3742</b>	<b>1.6352</b>	<b>5.0094</b>		<b>3,037.9107</b>	<b>3,037.9107</b>	<b>0.9308</b>		<b>3,061.1809</b>



Hare Creek Center - Statewide , Winter

**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	lb/day										lb/day					
Hauling	0.4853	15.4685	2.8952	0.0364	0.7951	0.0901	0.8851	0.2180	0.0862	0.3041		3,868.3795	3,868.3795	0.2356		3,874.2688
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	0.0848	0.0640	0.6248	1.2800e-003	0.1232	9.8000e-004	0.1242	0.0327	9.1000e-004	0.0336		127.4829	127.4829	5.2000e-003		127.6130
<b>Total</b>	<b>0.5701</b>	<b>15.5325</b>	<b>3.5199</b>	<b>0.0377</b>	<b>0.9183</b>	<b>0.0910</b>	<b>1.0093</b>	<b>0.2506</b>	<b>0.0871</b>	<b>0.3377</b>		<b>3,995.8624</b>	<b>3,995.8624</b>	<b>0.2408</b>		<b>4,001.8818</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	lb/day										lb/day					
Fugitive Dust					2.9685	0.0000	2.9685	1.5184	0.0000	1.5184			0.0000			0.0000
Off-Road	3.0705	33.8868	17.1042	0.0297		1.7774	1.7774		1.6352	1.6352	0.0000	3,037.9107	3,037.9107	0.9308		3,061.1809
<b>Total</b>	<b>3.0705</b>	<b>33.8868</b>	<b>17.1042</b>	<b>0.0297</b>	<b>2.9685</b>	<b>1.7774</b>	<b>4.7459</b>	<b>1.5184</b>	<b>1.6352</b>	<b>3.1536</b>	<b>0.0000</b>	<b>3,037.9107</b>	<b>3,037.9107</b>	<b>0.9308</b>		<b>3,061.1809</b>

Hare Creek Center - Statewide , Winter

**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	lb/day										lb/day					
Hauling	0.4853	15.4685	2.8952	0.0364	0.7951	0.0901	0.8851	0.2180	0.0862	0.3041		3,868.3795	3,868.3795	0.2356		3,874.2688
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	0.0848	0.0640	0.6248	1.2800e-003	0.1232	9.8000e-004	0.1242	0.0327	9.1000e-004	0.0336		127.4829	127.4829	5.2000e-003		127.6130
<b>Total</b>	<b>0.5701</b>	<b>15.5325</b>	<b>3.5199</b>	<b>0.0377</b>	<b>0.9183</b>	<b>0.0910</b>	<b>1.0093</b>	<b>0.2506</b>	<b>0.0871</b>	<b>0.3377</b>		<b>3,995.8624</b>	<b>3,995.8624</b>	<b>0.2408</b>		<b>4,001.8818</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	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.9797	2,650.9797	0.6531		2,667.3078
<b>Total</b>	<b>3.1149</b>	<b>26.5546</b>	<b>18.1825</b>	<b>0.0269</b>		<b>1.7879</b>	<b>1.7879</b>		<b>1.6791</b>	<b>1.6791</b>		<b>2,650.9797</b>	<b>2,650.9797</b>	<b>0.6531</b>		<b>2,667.3078</b>

Hare Creek Center - Statewide , Winter

**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	lb/day										lb/day					
Hauling	3.0200e-003	0.0962	0.0180	2.3000e-004	8.1500e-003	5.6000e-004	8.7100e-003	2.1400e-003	5.4000e-004	2.6800e-003		24.0569	24.0569	1.4600e-003		24.0935
Vendor	0.0662	1.5389	0.4494	3.0400e-003	0.0745	0.0145	0.0890	0.0215	0.0138	0.0353		320.6882	320.6882	0.0240		321.2882
Worker	0.1469	0.1110	1.0829	2.2200e-003	0.2136	1.7100e-003	0.2153	0.0567	1.5700e-003	0.0582		220.9704	220.9704	9.0200e-003		221.1959
<b>Total</b>	<b>0.2161</b>	<b>1.7461</b>	<b>1.5504</b>	<b>5.4900e-003</b>	<b>0.2962</b>	<b>0.0167</b>	<b>0.3130</b>	<b>0.0802</b>	<b>0.0159</b>	<b>0.0962</b>		<b>565.7155</b>	<b>565.7155</b>	<b>0.0345</b>		<b>566.5775</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	lb/day										lb/day					
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.9797	2,650.9797	0.6531		2,667.3078
<b>Total</b>	<b>3.1149</b>	<b>26.5546</b>	<b>18.1825</b>	<b>0.0269</b>		<b>1.7879</b>	<b>1.7879</b>		<b>1.6791</b>	<b>1.6791</b>	<b>0.0000</b>	<b>2,650.9797</b>	<b>2,650.9797</b>	<b>0.6531</b>		<b>2,667.3078</b>

Hare Creek Center - Statewide , Winter

**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	lb/day										lb/day					
Hauling	3.0200e-003	0.0962	0.0180	2.3000e-004	8.1500e-003	5.6000e-004	8.7100e-003	2.1400e-003	5.4000e-004	2.6800e-003		24.0569	24.0569	1.4600e-003		24.0935
Vendor	0.0662	1.5389	0.4494	3.0400e-003	0.0745	0.0145	0.0890	0.0215	0.0138	0.0353		320.6882	320.6882	0.0240		321.2882
Worker	0.1469	0.1110	1.0829	2.2200e-003	0.2136	1.7100e-003	0.2153	0.0567	1.5700e-003	0.0582		220.9704	220.9704	9.0200e-003		221.1959
<b>Total</b>	<b>0.2161</b>	<b>1.7461</b>	<b>1.5504</b>	<b>5.4900e-003</b>	<b>0.2962</b>	<b>0.0167</b>	<b>0.3130</b>	<b>0.0802</b>	<b>0.0159</b>	<b>0.0962</b>		<b>565.7155</b>	<b>565.7155</b>	<b>0.0345</b>		<b>566.5775</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	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
<b>Total</b>	<b>2.6795</b>	<b>23.3900</b>	<b>17.5804</b>	<b>0.0269</b>		<b>1.4999</b>	<b>1.4999</b>		<b>1.4099</b>	<b>1.4099</b>		<b>2,620.9351</b>	<b>2,620.9351</b>	<b>0.6421</b>		<b>2,636.9883</b>

Hare Creek Center - Statewide , Winter

**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	lb/day										lb/day					
Hauling	2.5800e-003	0.0887	0.0163	2.2000e-004	9.3000e-003	3.7000e-004	9.6700e-003	2.4200e-003	3.6000e-004	2.7800e-003		23.8592	23.8592	1.3900e-003		23.8941
Vendor	0.0572	1.4424	0.3962	3.0300e-003	0.0745	0.0115	0.0860	0.0215	0.0110	0.0324		319.6171	319.6171	0.0223		320.1755
Worker	0.1308	0.0967	0.9453	2.1600e-003	0.2136	1.6400e-003	0.2152	0.0567	1.5200e-003	0.0582		214.8500	214.8500	7.9000e-003		215.0474
<b>Total</b>	<b>0.1906</b>	<b>1.6278</b>	<b>1.3577</b>	<b>5.4100e-003</b>	<b>0.2974</b>	<b>0.0135</b>	<b>0.3109</b>	<b>0.0805</b>	<b>0.0128</b>	<b>0.0934</b>		<b>558.3263</b>	<b>558.3263</b>	<b>0.0316</b>		<b>559.1170</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	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
<b>Total</b>	<b>2.6795</b>	<b>23.3900</b>	<b>17.5804</b>	<b>0.0269</b>		<b>1.4999</b>	<b>1.4999</b>		<b>1.4099</b>	<b>1.4099</b>	<b>0.0000</b>	<b>2,620.9351</b>	<b>2,620.9351</b>	<b>0.6421</b>		<b>2,636.9883</b>

Hare Creek Center - Statewide , Winter

**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	lb/day										lb/day					
Hauling	2.5800e-003	0.0887	0.0163	2.2000e-004	9.3000e-003	3.7000e-004	9.6700e-003	2.4200e-003	3.6000e-004	2.7800e-003		23.8592	23.8592	1.3900e-003		23.8941
Vendor	0.0572	1.4424	0.3962	3.0300e-003	0.0745	0.0115	0.0860	0.0215	0.0110	0.0324		319.6171	319.6171	0.0223		320.1755
Worker	0.1308	0.0967	0.9453	2.1600e-003	0.2136	1.6400e-003	0.2152	0.0567	1.5200e-003	0.0582		214.8500	214.8500	7.9000e-003		215.0474
<b>Total</b>	<b>0.1906</b>	<b>1.6278</b>	<b>1.3577</b>	<b>5.4100e-003</b>	<b>0.2974</b>	<b>0.0135</b>	<b>0.3109</b>	<b>0.0805</b>	<b>0.0128</b>	<b>0.0934</b>		<b>558.3263</b>	<b>558.3263</b>	<b>0.0316</b>		<b>559.1170</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	1.6763	17.0389	12.6556	0.0189		1.0172	1.0172		0.9376	0.9376		1,901.7766	1,901.7766	0.5674		1,915.9604
Paving	0.0143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.6906</b>	<b>17.0389</b>	<b>12.6556</b>	<b>0.0189</b>		<b>1.0172</b>	<b>1.0172</b>		<b>0.9376</b>	<b>0.9376</b>		<b>1,901.7766</b>	<b>1,901.7766</b>	<b>0.5674</b>		<b>1,915.9604</b>

Hare Creek Center - Statewide , Winter

**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	lb/day										lb/day					
Hauling	3.0200e-003	0.0962	0.0180	2.3000e-004	8.1500e-003	5.6000e-004	8.7100e-003	2.1400e-003	5.4000e-004	2.6800e-003		24.0569	24.0569	1.4600e-003		24.0935
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	0.1130	0.0854	0.8330	1.7100e-003	0.1643	1.3100e-003	0.1656	0.0436	1.2100e-003	0.0448		169.9772	169.9772	6.9400e-003		170.1507
<b>Total</b>	<b>0.1160</b>	<b>0.1816</b>	<b>0.8510</b>	<b>1.9400e-003</b>	<b>0.1725</b>	<b>1.8700e-003</b>	<b>0.1743</b>	<b>0.0457</b>	<b>1.7500e-003</b>	<b>0.0475</b>		<b>194.0341</b>	<b>194.0341</b>	<b>8.4000e-003</b>		<b>194.2441</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	lb/day										lb/day					
Off-Road	1.6763	17.0389	12.6556	0.0189		1.0172	1.0172		0.9376	0.9376	0.0000	1,901.7766	1,901.7766	0.5674		1,915.9604
Paving	0.0143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.6906</b>	<b>17.0389</b>	<b>12.6556</b>	<b>0.0189</b>		<b>1.0172</b>	<b>1.0172</b>		<b>0.9376</b>	<b>0.9376</b>	<b>0.0000</b>	<b>1,901.7766</b>	<b>1,901.7766</b>	<b>0.5674</b>		<b>1,915.9604</b>

Hare Creek Center - Statewide , Winter

**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	lb/day										lb/day					
Hauling	3.0200e-003	0.0962	0.0180	2.3000e-004	8.1500e-003	5.6000e-004	8.7100e-003	2.1400e-003	5.4000e-004	2.6800e-003		24.0569	24.0569	1.4600e-003		24.0935
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	0.1130	0.0854	0.8330	1.7100e-003	0.1643	1.3100e-003	0.1656	0.0436	1.2100e-003	0.0448		169.9772	169.9772	6.9400e-003		170.1507
<b>Total</b>	<b>0.1160</b>	<b>0.1816</b>	<b>0.8510</b>	<b>1.9400e-003</b>	<b>0.1725</b>	<b>1.8700e-003</b>	<b>0.1743</b>	<b>0.0457</b>	<b>1.7500e-003</b>	<b>0.0475</b>		<b>194.0341</b>	<b>194.0341</b>	<b>8.4000e-003</b>		<b>194.2441</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	lb/day										lb/day					
Off-Road	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718		1,872.5505	1,872.5505	0.5672		1,886.7312
Paving	0.0143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4382</b>	<b>14.5184</b>	<b>12.4333</b>	<b>0.0189</b>		<b>0.8370</b>	<b>0.8370</b>		<b>0.7718</b>	<b>0.7718</b>		<b>1,872.5505</b>	<b>1,872.5505</b>	<b>0.5672</b>		<b>1,886.7312</b>



Hare Creek Center - Statewide , Winter

**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	lb/day										lb/day					
Hauling	2.5800e-003	0.0887	0.0163	2.2000e-004	9.3000e-003	3.7000e-004	9.6700e-003	2.4200e-003	3.6000e-004	2.7800e-003		23.8592	23.8592	1.3900e-003		23.8941
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	0.1006	0.0744	0.7272	1.6600e-003	0.1643	1.2600e-003	0.1656	0.0436	1.1700e-003	0.0447		165.2692	165.2692	6.0700e-003		165.4211
<b>Total</b>	<b>0.1032</b>	<b>0.1631</b>	<b>0.7434</b>	<b>1.8800e-003</b>	<b>0.1736</b>	<b>1.6300e-003</b>	<b>0.1752</b>	<b>0.0460</b>	<b>1.5300e-003</b>	<b>0.0475</b>		<b>189.1284</b>	<b>189.1284</b>	<b>7.4600e-003</b>		<b>189.3151</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	lb/day										lb/day					
Off-Road	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718	0.0000	1,872.5505	1,872.5505	0.5672		1,886.7312
Paving	0.0143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4382</b>	<b>14.5184</b>	<b>12.4333</b>	<b>0.0189</b>		<b>0.8370</b>	<b>0.8370</b>		<b>0.7718</b>	<b>0.7718</b>	<b>0.0000</b>	<b>1,872.5505</b>	<b>1,872.5505</b>	<b>0.5672</b>		<b>1,886.7312</b>

Hare Creek Center - Statewide , Winter

**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	lb/day										lb/day					
Hauling	2.5800e-003	0.0887	0.0163	2.2000e-004	9.3000e-003	3.7000e-004	9.6700e-003	2.4200e-003	3.6000e-004	2.7800e-003		23.8592	23.8592	1.3900e-003		23.8941
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	0.1006	0.0744	0.7272	1.6600e-003	0.1643	1.2600e-003	0.1656	0.0436	1.1700e-003	0.0447		165.2692	165.2692	6.0700e-003		165.4211
<b>Total</b>	<b>0.1032</b>	<b>0.1631</b>	<b>0.7434</b>	<b>1.8800e-003</b>	<b>0.1736</b>	<b>1.6300e-003</b>	<b>0.1752</b>	<b>0.0460</b>	<b>1.5300e-003</b>	<b>0.0475</b>		<b>189.1284</b>	<b>189.1284</b>	<b>7.4600e-003</b>		<b>189.3151</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	2.1617					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		282.1909
<b>Total</b>	<b>2.4940</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>282.1909</b>

Hare Creek Center - Statewide , Winter

**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	lb/day										lb/day					
Hauling	3.0200e-003	0.0962	0.0180	2.3000e-004	8.1500e-003	5.6000e-004	8.7100e-003	2.1400e-003	5.4000e-004	2.6800e-003		24.0569	24.0569	1.4600e-003		24.0935
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	0.0283	0.0214	0.2083	4.3000e-004	0.0411	3.3000e-004	0.0414	0.0109	3.0000e-004	0.0112		42.4943	42.4943	1.7300e-003		42.5377
<b>Total</b>	<b>0.0313</b>	<b>0.1176</b>	<b>0.2263</b>	<b>6.6000e-004</b>	<b>0.0492</b>	<b>8.9000e-004</b>	<b>0.0501</b>	<b>0.0130</b>	<b>8.4000e-004</b>	<b>0.0139</b>		<b>66.5512</b>	<b>66.5512</b>	<b>3.1900e-003</b>		<b>66.6312</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	lb/day										lb/day					
Archit. Coating	2.1617					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		282.1909
<b>Total</b>	<b>2.4940</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>282.1909</b>

Hare Creek Center - Statewide , Winter

**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	lb/day										lb/day					
Hauling	3.0200e-003	0.0962	0.0180	2.3000e-004	8.1500e-003	5.6000e-004	8.7100e-003	2.1400e-003	5.4000e-004	2.6800e-003		24.0569	24.0569	1.4600e-003		24.0935
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	0.0283	0.0214	0.2083	4.3000e-004	0.0411	3.3000e-004	0.0414	0.0109	3.0000e-004	0.0112		42.4943	42.4943	1.7300e-003		42.5377
<b>Total</b>	<b>0.0313</b>	<b>0.1176</b>	<b>0.2263</b>	<b>6.6000e-004</b>	<b>0.0492</b>	<b>8.9000e-004</b>	<b>0.0501</b>	<b>0.0130</b>	<b>8.4000e-004</b>	<b>0.0139</b>		<b>66.5512</b>	<b>66.5512</b>	<b>3.1900e-003</b>		<b>66.6312</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	2.1617					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		282.1171
<b>Total</b>	<b>2.4603</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>282.1171</b>

Hare Creek Center - Statewide , Winter

**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	lb/day										lb/day					
Hauling	2.5800e-003	0.0887	0.0163	2.2000e-004	9.3000e-003	3.7000e-004	9.6700e-003	2.4200e-003	3.6000e-004	2.7800e-003		23.8592	23.8592	1.3900e-003		23.8941
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	0.0252	0.0186	0.1818	4.2000e-004	0.0411	3.2000e-004	0.0414	0.0109	2.9000e-004	0.0112		41.3173	41.3173	1.5200e-003		41.3553
<b>Total</b>	<b>0.0277</b>	<b>0.1073</b>	<b>0.1980</b>	<b>6.4000e-004</b>	<b>0.0504</b>	<b>6.9000e-004</b>	<b>0.0511</b>	<b>0.0133</b>	<b>6.5000e-004</b>	<b>0.0140</b>		<b>65.1765</b>	<b>65.1765</b>	<b>2.9100e-003</b>		<b>65.2493</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	lb/day										lb/day					
Archit. Coating	2.1617					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		282.1171
<b>Total</b>	<b>2.4603</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>282.1171</b>

Hare Creek Center - Statewide , Winter

**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	lb/day										lb/day					
Hauling	2.5800e-003	0.0887	0.0163	2.2000e-004	9.3000e-003	3.7000e-004	9.6700e-003	2.4200e-003	3.6000e-004	2.7800e-003		23.8592	23.8592	1.3900e-003		23.8941
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	0.0252	0.0186	0.1818	4.2000e-004	0.0411	3.2000e-004	0.0414	0.0109	2.9000e-004	0.0112		41.3173	41.3173	1.5200e-003		41.3553
<b>Total</b>	<b>0.0277</b>	<b>0.1073</b>	<b>0.1980</b>	<b>6.4000e-004</b>	<b>0.0504</b>	<b>6.9000e-004</b>	<b>0.0511</b>	<b>0.0133</b>	<b>6.5000e-004</b>	<b>0.0140</b>		<b>65.1765</b>	<b>65.1765</b>	<b>2.9100e-003</b>		<b>65.2493</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Hare Creek Center - Statewide , Winter

	ROG	NOx	CO	SO2	Fugitive 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	6.1631	32.1427	63.4780	0.1611	11.5393	0.2187	11.7580	3.0898	0.2066	3.2964		16,342.00 60	16,342.00 60	1.0895		16,369.24 45
Unmitigated	6.1631	32.1427	63.4780	0.1611	11.5393	0.2187	11.7580	3.0898	0.2066	3.2964		16,342.00 60	16,342.00 60	1.0895		16,369.24 45

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

Hare Creek Center - Statewide , Winter

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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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	lb/day										lb/day					
NaturalGas Mitigated	6.3200e-003	0.0575	0.0483	3.4000e-004		4.3700e-003	4.3700e-003		4.3700e-003	4.3700e-003		68.9363	68.9363	1.3200e-003	1.2600e-003	69.3460
NaturalGas Unmitigated	6.3200e-003	0.0575	0.0483	3.4000e-004		4.3700e-003	4.3700e-003		4.3700e-003	4.3700e-003		68.9363	68.9363	1.3200e-003	1.2600e-003	69.3460



Hare Creek Center - Statewide , Winter

**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					
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
Regional Shopping Center	585.959	6.3200e-003	0.0575	0.0483	3.4000e-004		4.3700e-003	4.3700e-003		4.3700e-003	4.3700e-003		68.9363	68.9363	1.3200e-003	1.2600e-003	69.3460
<b>Total</b>		<b>6.3200e-003</b>	<b>0.0575</b>	<b>0.0483</b>	<b>3.4000e-004</b>		<b>4.3700e-003</b>	<b>4.3700e-003</b>		<b>4.3700e-003</b>	<b>4.3700e-003</b>		<b>68.9363</b>	<b>68.9363</b>	<b>1.3200e-003</b>	<b>1.2600e-003</b>	<b>69.3460</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					
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
Regional Shopping Center	0.585959	6.3200e-003	0.0575	0.0483	3.4000e-004		4.3700e-003	4.3700e-003		4.3700e-003	4.3700e-003		68.9363	68.9363	1.3200e-003	1.2600e-003	69.3460
<b>Total</b>		<b>6.3200e-003</b>	<b>0.0575</b>	<b>0.0483</b>	<b>3.4000e-004</b>		<b>4.3700e-003</b>	<b>4.3700e-003</b>		<b>4.3700e-003</b>	<b>4.3700e-003</b>		<b>68.9363</b>	<b>68.9363</b>	<b>1.3200e-003</b>	<b>1.2600e-003</b>	<b>69.3460</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Hare Creek Center - Statewide , Winter

	ROG	NOx	CO	SO2	Fugitive 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	0.8415	1.2000e-004	0.0133	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0281	0.0281	8.0000e-005		0.0301
Unmitigated	0.8415	1.2000e-004	0.0133	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0281	0.0281	8.0000e-005		0.0301

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	0.1949					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6453					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2700e-003	1.2000e-004	0.0133	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0281	0.0281	8.0000e-005		0.0301
<b>Total</b>	<b>0.8415</b>	<b>1.2000e-004</b>	<b>0.0133</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0281</b>	<b>0.0281</b>	<b>8.0000e-005</b>		<b>0.0301</b>

Hare Creek Center - Statewide , Winter

**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	0.1949					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6453					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2700e-003	1.2000e-004	0.0133	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0281	0.0281	8.0000e-005		0.0301
<b>Total</b>	<b>0.8415</b>	<b>1.2000e-004</b>	<b>0.0133</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0281</b>	<b>0.0281</b>	<b>8.0000e-005</b>		<b>0.0301</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 Stationary Equipment**

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Fire Pumps and Emergency Generators

Hare Creek Center - Statewide , Winter

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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