

9781 Monte Vista Soccer - Imperial County APCD Air District, Annual

**9781 Monte Vista Soccer**  
**Imperial County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	57.40	Acre	57.40	2,500,344.00	0
Parking Lot	511.00	Space	5.00	204,400.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	12
<b>Climate Zone</b>	15			<b>Operational Year</b>	2022
<b>Utility Company</b>	Imperial Irrigation District				
<b>CO2 Intensity (lb/MW hr)</b>	1270.9	<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 - 53.5 acre soccer complex  
 8.9 acre farm

Construction Phase - Based on schedule for similar complex

Grading -

Vehicle Trips - 945 ADT  
 7.6 Imperial County trip length

Road Dust - Roads used to access site are paved

On-road Fugitive Dust - Roads used to access site are paved

Construction Off-road Equipment Mitigation -



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tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblRoadDust	RoadPercentPave	50	100
tblVehicleTrips	CC_TL	5.00	7.60
tblVehicleTrips	CNW_TL	8.90	7.60
tblVehicleTrips	CW_TL	6.70	7.60
tblVehicleTrips	ST_TR	22.75	16.46
tblVehicleTrips	SU_TR	16.74	16.46
tblVehicleTrips	WD_TR	1.89	16.46

## 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	4-1-2021	6-30-2021	1.5480	1.5480
2	7-1-2021	9-30-2021	0.4741	0.4741
3	10-1-2021	12-31-2021	0.4736	0.4736
4	1-1-2022	3-31-2022	2.2558	2.2558
5	4-1-2022	6-30-2022	2.4573	2.4573
		Highest	2.4573	2.4573

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	0.0553	5.0000e-005	5.2300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0102	0.0102	3.0000e-005	0.0000	0.0108
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	41.2407	41.2407	9.4000e-004	1.9000e-004	41.3223
Mobile	0.4575	3.5111	4.7446	0.0131	0.7425	8.5200e-003	0.7511	0.1993	8.0300e-003	0.2073	0.0000	1,216.9531	1,216.9531	0.0981	0.0000	1,219.4053
Waste						0.0000	0.0000		0.0000	0.0000	1.0028	0.0000	1.0028	0.0593	0.0000	2.4843
Water						0.0000	0.0000		0.0000	0.0000	0.0000	438.0164	438.0164	9.9900e-003	2.0700e-003	438.8825
<b>Total</b>	<b>0.5128</b>	<b>3.5112</b>	<b>4.7498</b>	<b>0.0131</b>	<b>0.7425</b>	<b>8.5400e-003</b>	<b>0.7511</b>	<b>0.1993</b>	<b>8.0500e-003</b>	<b>0.2073</b>	<b>1.0028</b>	<b>1,696.2203</b>	<b>1,697.2231</b>	<b>0.1683</b>	<b>2.2600e-003</b>	<b>1,702.1051</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	0.0553	5.0000e-005	5.2300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0102	0.0102	3.0000e-005	0.0000	0.0108
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	41.2407	41.2407	9.4000e-004	1.9000e-004	41.3223
Mobile	0.4575	3.5111	4.7446	0.0131	0.7425	8.5200e-003	0.7511	0.1993	8.0300e-003	0.2073	0.0000	1,216.9531	1,216.9531	0.0981	0.0000	1,219.4053
Waste						0.0000	0.0000		0.0000	0.0000	1.0028	0.0000	1.0028	0.0593	0.0000	2.4843
Water						0.0000	0.0000		0.0000	0.0000	0.0000	438.0164	438.0164	9.9900e-003	2.0700e-003	438.8825
<b>Total</b>	<b>0.5128</b>	<b>3.5112</b>	<b>4.7498</b>	<b>0.0131</b>	<b>0.7425</b>	<b>8.5400e-003</b>	<b>0.7511</b>	<b>0.1993</b>	<b>8.0500e-003</b>	<b>0.2073</b>	<b>1.0028</b>	<b>1,696.2203</b>	<b>1,697.2231</b>	<b>0.1683</b>	<b>2.2600e-003</b>	<b>1,702.1051</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	4/1/2021	4/30/2021	5	22	
2	Grading	Grading	5/3/2021	6/30/2021	5	43	
3	Building Construction	Building Construction	1/3/2022	6/30/2022	5	129	
4	Paving	Paving	7/1/2021	12/31/2021	5	132	
5	Architectural Coating	Architectural Coating	6/1/2022	6/30/2022	5	22	

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

**Acres of Grading (Grading Phase): 107.5**

**Acres of Paving: 5**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 4,500; Non-Residential Outdoor: 1,500; Striped Parking Area: 12,264 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
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
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

**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	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,136.00	443.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	227.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT



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**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Site Preparation - 2021**

**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					0.1987	0.0000	0.1987	0.1092	0.0000	0.1092	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0428	0.4455	0.2327	4.2000e-004		0.0225	0.0225		0.0207	0.0207	0.0000	36.7793	36.7793	0.0119	0.0000	37.0767
<b>Total</b>	<b>0.0428</b>	<b>0.4455</b>	<b>0.2327</b>	<b>4.2000e-004</b>	<b>0.1987</b>	<b>0.0225</b>	<b>0.2212</b>	<b>0.1092</b>	<b>0.0207</b>	<b>0.1299</b>	<b>0.0000</b>	<b>36.7793</b>	<b>36.7793</b>	<b>0.0119</b>	<b>0.0000</b>	<b>37.0767</b>

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**3.2 Site Preparation - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0700e-003	8.0000e-004	7.5200e-003	1.0000e-005	1.0900e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.8887	0.8887	7.0000e-005	0.0000	0.8905
<b>Total</b>	<b>1.0700e-003</b>	<b>8.0000e-004</b>	<b>7.5200e-003</b>	<b>1.0000e-005</b>	<b>1.0900e-003</b>	<b>1.0000e-005</b>	<b>1.1000e-003</b>	<b>2.9000e-004</b>	<b>1.0000e-005</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.8887</b>	<b>0.8887</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.8905</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					0.0775	0.0000	0.0775	0.0426	0.0000	0.0426	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0428	0.4455	0.2327	4.2000e-004		0.0225	0.0225		0.0207	0.0207	0.0000	36.7792	36.7792	0.0119	0.0000	37.0766
<b>Total</b>	<b>0.0428</b>	<b>0.4455</b>	<b>0.2327</b>	<b>4.2000e-004</b>	<b>0.0775</b>	<b>0.0225</b>	<b>0.1000</b>	<b>0.0426</b>	<b>0.0207</b>	<b>0.0633</b>	<b>0.0000</b>	<b>36.7792</b>	<b>36.7792</b>	<b>0.0119</b>	<b>0.0000</b>	<b>37.0766</b>

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**3.2 Site Preparation - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0700e-003	8.0000e-004	7.5200e-003	1.0000e-005	1.0900e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.8887	0.8887	7.0000e-005	0.0000	0.8905
<b>Total</b>	<b>1.0700e-003</b>	<b>8.0000e-004</b>	<b>7.5200e-003</b>	<b>1.0000e-005</b>	<b>1.0900e-003</b>	<b>1.0000e-005</b>	<b>1.1000e-003</b>	<b>2.9000e-004</b>	<b>1.0000e-005</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.8887</b>	<b>0.8887</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.8905</b>

**3.3 Grading - 2021**

**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					0.1865	0.0000	0.1865	0.0773	0.0000	0.0773	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0901	0.9976	0.6639	1.3300e-003		0.0427	0.0427		0.0393	0.0393	0.0000	117.1642	117.1642	0.0379	0.0000	118.1115
<b>Total</b>	<b>0.0901</b>	<b>0.9976</b>	<b>0.6639</b>	<b>1.3300e-003</b>	<b>0.1865</b>	<b>0.0427</b>	<b>0.2292</b>	<b>0.0773</b>	<b>0.0393</b>	<b>0.1166</b>	<b>0.0000</b>	<b>117.1642</b>	<b>117.1642</b>	<b>0.0379</b>	<b>0.0000</b>	<b>118.1115</b>

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**3.3 Grading - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3300e-003	1.7500e-003	0.0163	2.0000e-005	2.3700e-003	2.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.4000e-004	0.0000	1.9301	1.9301	1.5000e-004	0.0000	1.9338
<b>Total</b>	<b>2.3300e-003</b>	<b>1.7500e-003</b>	<b>0.0163</b>	<b>2.0000e-005</b>	<b>2.3700e-003</b>	<b>2.0000e-005</b>	<b>2.3900e-003</b>	<b>6.3000e-004</b>	<b>1.0000e-005</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>1.9301</b>	<b>1.9301</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.9338</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					0.0727	0.0000	0.0727	0.0302	0.0000	0.0302	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0901	0.9976	0.6639	1.3300e-003		0.0427	0.0427		0.0393	0.0393	0.0000	117.1641	117.1641	0.0379	0.0000	118.1114
<b>Total</b>	<b>0.0901</b>	<b>0.9976</b>	<b>0.6639</b>	<b>1.3300e-003</b>	<b>0.0727</b>	<b>0.0427</b>	<b>0.1154</b>	<b>0.0302</b>	<b>0.0393</b>	<b>0.0694</b>	<b>0.0000</b>	<b>117.1641</b>	<b>117.1641</b>	<b>0.0379</b>	<b>0.0000</b>	<b>118.1114</b>

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**3.3 Grading - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3300e-003	1.7500e-003	0.0163	2.0000e-005	2.3700e-003	2.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.4000e-004	0.0000	1.9301	1.9301	1.5000e-004	0.0000	1.9338
<b>Total</b>	<b>2.3300e-003</b>	<b>1.7500e-003</b>	<b>0.0163</b>	<b>2.0000e-005</b>	<b>2.3700e-003</b>	<b>2.0000e-005</b>	<b>2.3900e-003</b>	<b>6.3000e-004</b>	<b>1.0000e-005</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>1.9301</b>	<b>1.9301</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.9338</b>

**3.4 Building Construction - 2022**

**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	0.1101	1.0072	1.0554	1.7400e-003		0.0522	0.0522		0.0491	0.0491	0.0000	149.4628	149.4628	0.0358	0.0000	150.3580
<b>Total</b>	<b>0.1101</b>	<b>1.0072</b>	<b>1.0554</b>	<b>1.7400e-003</b>		<b>0.0522</b>	<b>0.0522</b>		<b>0.0491</b>	<b>0.0491</b>	<b>0.0000</b>	<b>149.4628</b>	<b>149.4628</b>	<b>0.0358</b>	<b>0.0000</b>	<b>150.3580</b>

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**3.4 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1037	2.7978	0.7570	9.0300e-003	0.2346	6.4000e-003	0.2410	0.0676	6.1200e-003	0.0737	0.0000	856.6126	856.6126	0.0430	0.0000	857.6866
Worker	0.3704	0.2727	2.5491	3.5300e-003	0.4042	2.5500e-003	0.4067	0.1073	2.3500e-003	0.1097	0.0000	316.8911	316.8911	0.0233	0.0000	317.4744
<b>Total</b>	<b>0.4740</b>	<b>3.0705</b>	<b>3.3062</b>	<b>0.0126</b>	<b>0.6388</b>	<b>8.9500e-003</b>	<b>0.6478</b>	<b>0.1749</b>	<b>8.4700e-003</b>	<b>0.1834</b>	<b>0.0000</b>	<b>1,173.5037</b>	<b>1,173.5037</b>	<b>0.0663</b>	<b>0.0000</b>	<b>1,175.1609</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	0.1101	1.0072	1.0554	1.7400e-003		0.0522	0.0522		0.0491	0.0491	0.0000	149.4626	149.4626	0.0358	0.0000	150.3578
<b>Total</b>	<b>0.1101</b>	<b>1.0072</b>	<b>1.0554</b>	<b>1.7400e-003</b>		<b>0.0522</b>	<b>0.0522</b>		<b>0.0491</b>	<b>0.0491</b>	<b>0.0000</b>	<b>149.4626</b>	<b>149.4626</b>	<b>0.0358</b>	<b>0.0000</b>	<b>150.3578</b>

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**3.4 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1037	2.7978	0.7570	9.0300e-003	0.2346	6.4000e-003	0.2410	0.0676	6.1200e-003	0.0737	0.0000	856.6126	856.6126	0.0430	0.0000	857.6866
Worker	0.3704	0.2727	2.5491	3.5300e-003	0.4042	2.5500e-003	0.4067	0.1073	2.3500e-003	0.1097	0.0000	316.8911	316.8911	0.0233	0.0000	317.4744
<b>Total</b>	<b>0.4740</b>	<b>3.0705</b>	<b>3.3062</b>	<b>0.0126</b>	<b>0.6388</b>	<b>8.9500e-003</b>	<b>0.6478</b>	<b>0.1749</b>	<b>8.4700e-003</b>	<b>0.1834</b>	<b>0.0000</b>	<b>1,173.5037</b>	<b>1,173.5037</b>	<b>0.0663</b>	<b>0.0000</b>	<b>1,175.1609</b>

**3.5 Paving - 2021**

**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	0.0829	0.8527	0.9671	1.5000e-003		0.0447	0.0447		0.0412	0.0412	0.0000	132.1550	132.1550	0.0427	0.0000	133.2235
Paving	6.5500e-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>0.0894</b>	<b>0.8527</b>	<b>0.9671</b>	<b>1.5000e-003</b>		<b>0.0447</b>	<b>0.0447</b>		<b>0.0412</b>	<b>0.0412</b>	<b>0.0000</b>	<b>132.1550</b>	<b>132.1550</b>	<b>0.0427</b>	<b>0.0000</b>	<b>133.2235</b>

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**3.5 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3600e-003	4.0200e-003	0.0376	5.0000e-005	5.4600e-003	4.0000e-005	5.5000e-003	1.4500e-003	3.0000e-005	1.4800e-003	0.0000	4.4437	4.4437	3.4000e-004	0.0000	4.4523
<b>Total</b>	<b>5.3600e-003</b>	<b>4.0200e-003</b>	<b>0.0376</b>	<b>5.0000e-005</b>	<b>5.4600e-003</b>	<b>4.0000e-005</b>	<b>5.5000e-003</b>	<b>1.4500e-003</b>	<b>3.0000e-005</b>	<b>1.4800e-003</b>	<b>0.0000</b>	<b>4.4437</b>	<b>4.4437</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>4.4523</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	0.0829	0.8527	0.9671	1.5000e-003		0.0447	0.0447		0.0412	0.0412	0.0000	132.1548	132.1548	0.0427	0.0000	133.2234
Paving	6.5500e-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>0.0894</b>	<b>0.8527</b>	<b>0.9671</b>	<b>1.5000e-003</b>		<b>0.0447</b>	<b>0.0447</b>		<b>0.0412</b>	<b>0.0412</b>	<b>0.0000</b>	<b>132.1548</b>	<b>132.1548</b>	<b>0.0427</b>	<b>0.0000</b>	<b>133.2234</b>



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**3.5 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3600e-003	4.0200e-003	0.0376	5.0000e-005	5.4600e-003	4.0000e-005	5.5000e-003	1.4500e-003	3.0000e-005	1.4800e-003	0.0000	4.4437	4.4437	3.4000e-004	0.0000	4.4523
<b>Total</b>	<b>5.3600e-003</b>	<b>4.0200e-003</b>	<b>0.0376</b>	<b>5.0000e-005</b>	<b>5.4600e-003</b>	<b>4.0000e-005</b>	<b>5.5000e-003</b>	<b>1.4500e-003</b>	<b>3.0000e-005</b>	<b>1.4800e-003</b>	<b>0.0000</b>	<b>4.4437</b>	<b>4.4437</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>4.4523</b>

**3.6 Architectural Coating - 2022**

**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	0.0635					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2500e-003	0.0155	0.0200	3.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	2.8086	2.8086	1.8000e-004	0.0000	2.8132
<b>Total</b>	<b>0.0657</b>	<b>0.0155</b>	<b>0.0200</b>	<b>3.0000e-005</b>		<b>9.0000e-004</b>	<b>9.0000e-004</b>		<b>9.0000e-004</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>2.8086</b>	<b>2.8086</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>2.8132</b>

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**3.6 Architectural Coating - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0126	9.2900e-003	0.0869	1.2000e-004	0.0138	9.0000e-005	0.0139	3.6600e-003	8.0000e-005	3.7400e-003	0.0000	10.7992	10.7992	8.0000e-004	0.0000	10.8191
<b>Total</b>	<b>0.0126</b>	<b>9.2900e-003</b>	<b>0.0869</b>	<b>1.2000e-004</b>	<b>0.0138</b>	<b>9.0000e-005</b>	<b>0.0139</b>	<b>3.6600e-003</b>	<b>8.0000e-005</b>	<b>3.7400e-003</b>	<b>0.0000</b>	<b>10.7992</b>	<b>10.7992</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>10.8191</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	0.0635					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2500e-003	0.0155	0.0200	3.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	2.8086	2.8086	1.8000e-004	0.0000	2.8132
<b>Total</b>	<b>0.0657</b>	<b>0.0155</b>	<b>0.0200</b>	<b>3.0000e-005</b>		<b>9.0000e-004</b>	<b>9.0000e-004</b>		<b>9.0000e-004</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>2.8086</b>	<b>2.8086</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>2.8132</b>

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**3.6 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0126	9.2900e-003	0.0869	1.2000e-004	0.0138	9.0000e-005	0.0139	3.6600e-003	8.0000e-005	3.7400e-003	0.0000	10.7992	10.7992	8.0000e-004	0.0000	10.8191
<b>Total</b>	<b>0.0126</b>	<b>9.2900e-003</b>	<b>0.0869</b>	<b>1.2000e-004</b>	<b>0.0138</b>	<b>9.0000e-005</b>	<b>0.0139</b>	<b>3.6600e-003</b>	<b>8.0000e-005</b>	<b>3.7400e-003</b>	<b>0.0000</b>	<b>10.7992</b>	<b>10.7992</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>10.8191</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	0.4575	3.5111	4.7446	0.0131	0.7425	8.5200e-003	0.7511	0.1993	8.0300e-003	0.2073	0.0000	1,216.9531	1,216.9531	0.0981	0.0000	1,219.4053
Unmitigated	0.4575	3.5111	4.7446	0.0131	0.7425	8.5200e-003	0.7511	0.1993	8.0300e-003	0.2073	0.0000	1,216.9531	1,216.9531	0.0981	0.0000	1,219.4053

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	944.80	944.80	944.80	1,910,069	1,910,069
Parking Lot	0.00	0.00	0.00		
Total	944.80	944.80	944.80	1,910,069	1,910,069

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
City Park	7.60	7.60	7.60	33.00	48.00	19.00	66	28	6
Parking Lot	6.70	5.00	8.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.514862	0.031726	0.160627	0.119887	0.016529	0.004969	0.019101	0.120993	0.003465	0.001214	0.005236	0.000734	0.000658
Parking Lot	0.514862	0.031726	0.160627	0.119887	0.016529	0.004969	0.019101	0.120993	0.003465	0.001214	0.005236	0.000734	0.000658

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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	0.0000	41.2407	41.2407	9.4000e-004	1.9000e-004	41.3223
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	41.2407	41.2407	9.4000e-004	1.9000e-004	41.3223
NaturalGas Mitigated	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
NaturalGas Unmitigated	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



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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	71540	41.2407	9.4000e-004	1.9000e-004	41.3223
<b>Total</b>		<b>41.2407</b>	<b>9.4000e-004</b>	<b>1.9000e-004</b>	<b>41.3223</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	71540	41.2407	9.4000e-004	1.9000e-004	41.3223
<b>Total</b>		<b>41.2407</b>	<b>9.4000e-004</b>	<b>1.9000e-004</b>	<b>41.3223</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	0.0553	5.0000e-005	5.2300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0102	0.0102	3.0000e-005	0.0000	0.0108
Unmitigated	0.0553	5.0000e-005	5.2300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0102	0.0102	3.0000e-005	0.0000	0.0108

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	6.3500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0484					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.9000e-004	5.0000e-005	5.2300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0102	0.0102	3.0000e-005	0.0000	0.0108
<b>Total</b>	<b>0.0553</b>	<b>5.0000e-005</b>	<b>5.2300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0102</b>	<b>0.0102</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0108</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	6.3500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0484					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.9000e-004	5.0000e-005	5.2300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0102	0.0102	3.0000e-005	0.0000	0.0108
<b>Total</b>	<b>0.0553</b>	<b>5.0000e-005</b>	<b>5.2300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0102</b>	<b>0.0102</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0108</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	438.0164	9.9900e-003	2.0700e-003	438.8825
Unmitigated	438.0164	9.9900e-003	2.0700e-003	438.8825

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 68.391	438.0164	9.9900e-003	2.0700e-003	438.8825
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>438.0164</b>	<b>9.9900e-003</b>	<b>2.0700e-003</b>	<b>438.8825</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			
City Park	0 / 68.391	438.0164	9.9900e-003	2.0700e-003	438.8825
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>438.0164</b>	<b>9.9900e-003</b>	<b>2.0700e-003</b>	<b>438.8825</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.0028	0.0593	0.0000	2.4843
Unmitigated	1.0028	0.0593	0.0000	2.4843

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	4.94	1.0028	0.0593	0.0000	2.4843
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.0028</b>	<b>0.0593</b>	<b>0.0000</b>	<b>2.4843</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	4.94	1.0028	0.0593	0.0000	2.4843
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.0028</b>	<b>0.0593</b>	<b>0.0000</b>	<b>2.4843</b>

**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**

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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