

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**MA21180 Burtec Wilson Yard Project**

**South Coast Air Basin, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	10.28	1000sqft	0.24	10,275.00	0
General Light Industry	19.14	1000sqft	0.44	19,137.00	0
Parking Lot	179.00	Space	1.61	71,600.00	0
Parking Lot	171.00	Space	1.54	68,400.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use -

Construction Phase - Grading and paving extended due to the size of the parking areas in 2 separate locations on the site.

Off-road Equipment - Site prep equipment reduced due to previous grading and use of the site for truck storage.

Off-road Equipment - Removed excavator due to previous grading on the site.

Grading - Grading adjusted down from default of 20 acres since site is less than 10 and previously graded.

Construction Off-road Equipment Mitigation - Compliance with Rules 401 and 403

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Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	25
tblConstructionPhase	NumDays	8.00	20.00
tblConstructionPhase	NumDays	18.00	45.00
tblConstructionPhase	PhaseEndDate	1/19/2022	2/4/2022
tblConstructionPhase	PhaseEndDate	1/2/2023	2/8/2023
tblGrading	AcresOfGrading	20.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00

**2.0 Emissions Summary**

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**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	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
Year	lb/day										lb/day					
2022	3.7867	36.2149	31.9675	0.0652	13.2165	1.6830	14.2321	6.7646	1.5657	7.6990	0.0000	6,352.2456	6,352.2456	1.4226	0.1042	6,418.8683
2023	18.7109	10.1657	15.1871	0.0252	0.3800	0.5086	0.8887	0.1008	0.4753	0.5761	0.0000	2,422.8840	2,422.8840	0.5923	7.6500e-003	2,439.9728
<b>Maximum</b>	<b>18.7109</b>	<b>36.2149</b>	<b>31.9675</b>	<b>0.0652</b>	<b>13.2165</b>	<b>1.6830</b>	<b>14.2321</b>	<b>6.7646</b>	<b>1.5657</b>	<b>7.6990</b>	<b>0.0000</b>	<b>6,352.2456</b>	<b>6,352.2456</b>	<b>1.4226</b>	<b>0.1042</b>	<b>6,418.8683</b>

**Mitigated Construction**

	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
Year	lb/day										lb/day					
2022	3.7867	36.2149	31.9675	0.0652	5.1983	1.6830	6.2139	2.6503	1.5657	3.5847	0.0000	6,352.2456	6,352.2456	1.4226	0.1042	6,418.8683
2023	18.7109	10.1657	15.1871	0.0252	0.2975	0.5086	0.8061	0.0805	0.4753	0.5558	0.0000	2,422.8840	2,422.8840	0.5923	7.6500e-003	2,439.9728
<b>Maximum</b>	<b>18.7109</b>	<b>36.2149</b>	<b>31.9675</b>	<b>0.0652</b>	<b>5.1983</b>	<b>1.6830</b>	<b>6.2139</b>	<b>2.6503</b>	<b>1.5657</b>	<b>3.5847</b>	<b>0.0000</b>	<b>6,352.2456</b>	<b>6,352.2456</b>	<b>1.4226</b>	<b>0.1042</b>	<b>6,418.8683</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	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	59.58	0.00	53.57	60.22	0.00	49.96	0.00	0.00	0.00	0.00	0.00	0.00

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	0.7209	3.5000e-004	0.0387	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0830	0.0830	2.2000e-004		0.0885
Energy	0.0193	0.1757	0.1476	1.0500e-003		0.0134	0.0134		0.0134	0.0134		210.7792	210.7792	4.0400e-003	3.8600e-003	212.0318
Mobile	0.6295	0.7056	6.7210	0.0153	1.5718	0.0107	1.5826	0.4188	9.9700e-003	0.4288		1,562.0448	1,562.0448	0.0933	0.0626	1,583.0175
<b>Total</b>	<b>1.3697</b>	<b>0.8816</b>	<b>6.9073</b>	<b>0.0164</b>	<b>1.5718</b>	<b>0.0242</b>	<b>1.5961</b>	<b>0.4188</b>	<b>0.0235</b>	<b>0.4423</b>		<b>1,772.9070</b>	<b>1,772.9070</b>	<b>0.0975</b>	<b>0.0664</b>	<b>1,795.1377</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	0.7209	3.5000e-004	0.0387	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0830	0.0830	2.2000e-004		0.0885
Energy	0.0193	0.1757	0.1476	1.0500e-003		0.0134	0.0134		0.0134	0.0134		210.7792	210.7792	4.0400e-003	3.8600e-003	212.0318
Mobile	0.6295	0.7056	6.7210	0.0153	1.5718	0.0107	1.5826	0.4188	9.9700e-003	0.4288		1,562.0448	1,562.0448	0.0933	0.0626	1,583.0175
<b>Total</b>	<b>1.3697</b>	<b>0.8816</b>	<b>6.9073</b>	<b>0.0164</b>	<b>1.5718</b>	<b>0.0242</b>	<b>1.5961</b>	<b>0.4188</b>	<b>0.0235</b>	<b>0.4423</b>		<b>1,772.9070</b>	<b>1,772.9070</b>	<b>0.0975</b>	<b>0.0664</b>	<b>1,795.1377</b>

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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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2022	1/7/2022	5	5	
2	Grading	Grading	1/8/2022	2/4/2022	5	20	
3	Building Construction	Building Construction	1/20/2022	12/7/2022	5	230	
4	Paving	Paving	12/8/2022	2/8/2023	5	45	
5	Architectural Coating	Architectural Coating	1/3/2023	1/26/2023	5	18	

**Acres of Grading (Site Preparation Phase): 5**

**Acres of Grading (Grading Phase): 5**

**Acres of Paving: 3.15**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 44,118; Non-Residential Outdoor: 14,706; Striped Parking Area: 8,400 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
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
Grading	Graders	1	8.00	187	0.41

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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
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
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	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	70.00	28.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

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**3.2 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					13.1047	0.0000	13.1047	6.7350	0.0000	6.7350			0.0000			0.0000
Off-Road	2.0036	20.9386	11.6399	0.0233		1.0150	1.0150		0.9338	0.9338		2,256.5486	2,256.5486	0.7298		2,274.7939
<b>Total</b>	<b>2.0036</b>	<b>20.9386</b>	<b>11.6399</b>	<b>0.0233</b>	<b>13.1047</b>	<b>1.0150</b>	<b>14.1196</b>	<b>6.7350</b>	<b>0.9338</b>	<b>7.6687</b>		<b>2,256.5486</b>	<b>2,256.5486</b>	<b>0.7298</b>		<b>2,274.7939</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0341	0.0241	0.3789	1.0100e-003	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		102.1145	102.1145	2.6700e-003	2.4400e-003	102.9078
<b>Total</b>	<b>0.0341</b>	<b>0.0241</b>	<b>0.3789</b>	<b>1.0100e-003</b>	<b>0.1118</b>	<b>6.7000e-004</b>	<b>0.1125</b>	<b>0.0296</b>	<b>6.2000e-004</b>	<b>0.0303</b>		<b>102.1145</b>	<b>102.1145</b>	<b>2.6700e-003</b>	<b>2.4400e-003</b>	<b>102.9078</b>



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**3.2 Site Preparation - 2022**

**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					5.1108	0.0000	5.1108	2.6266	0.0000	2.6266			0.0000			0.0000
Off-Road	2.0036	20.9386	11.6399	0.0233		1.0150	1.0150		0.9338	0.9338	0.0000	2,256.548 6	2,256.548 6	0.7298		2,274.793 9
<b>Total</b>	<b>2.0036</b>	<b>20.9386</b>	<b>11.6399</b>	<b>0.0233</b>	<b>5.1108</b>	<b>1.0150</b>	<b>6.1258</b>	<b>2.6266</b>	<b>0.9338</b>	<b>3.5604</b>	<b>0.0000</b>	<b>2,256.548 6</b>	<b>2,256.548 6</b>	<b>0.7298</b>		<b>2,274.793 9</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0341	0.0241	0.3789	1.0100e-003	0.0875	6.7000e-004	0.0882	0.0237	6.2000e-004	0.0243		102.1145	102.1145	2.6700e-003	2.4400e-003	102.9078
<b>Total</b>	<b>0.0341</b>	<b>0.0241</b>	<b>0.3789</b>	<b>1.0100e-003</b>	<b>0.0875</b>	<b>6.7000e-004</b>	<b>0.0882</b>	<b>0.0237</b>	<b>6.2000e-004</b>	<b>0.0243</b>		<b>102.1145</b>	<b>102.1145</b>	<b>2.6700e-003</b>	<b>2.4400e-003</b>	<b>102.9078</b>

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**3.3 Grading - 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	lb/day										lb/day					
Fugitive Dust					6.2872	0.0000	6.2872	3.3389	0.0000	3.3389			0.0000			0.0000
Off-Road	1.7462	19.0782	12.0176	0.0245		0.8549	0.8549		0.7865	0.7865		2,372.031 1	2,372.031 1	0.7672		2,391.210 2
<b>Total</b>	<b>1.7462</b>	<b>19.0782</b>	<b>12.0176</b>	<b>0.0245</b>	<b>6.2872</b>	<b>0.8549</b>	<b>7.1421</b>	<b>3.3389</b>	<b>0.7865</b>	<b>4.1254</b>		<b>2,372.031 1</b>	<b>2,372.031 1</b>	<b>0.7672</b>		<b>2,391.210 2</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0444	0.0313	0.4925	1.3100e-003	0.1453	8.7000e-004	0.1462	0.0385	8.0000e-004	0.0393		132.7488	132.7488	3.4700e-003	3.1700e-003	133.7801
<b>Total</b>	<b>0.0444</b>	<b>0.0313</b>	<b>0.4925</b>	<b>1.3100e-003</b>	<b>0.1453</b>	<b>8.7000e-004</b>	<b>0.1462</b>	<b>0.0385</b>	<b>8.0000e-004</b>	<b>0.0393</b>		<b>132.7488</b>	<b>132.7488</b>	<b>3.4700e-003</b>	<b>3.1700e-003</b>	<b>133.7801</b>

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**3.3 Grading - 2022**

**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					2.4520	0.0000	2.4520	1.3022	0.0000	1.3022			0.0000			0.0000
Off-Road	1.7462	19.0782	12.0176	0.0245		0.8549	0.8549		0.7865	0.7865	0.0000	2,372.031 1	2,372.031 1	0.7672		2,391.210 2
<b>Total</b>	<b>1.7462</b>	<b>19.0782</b>	<b>12.0176</b>	<b>0.0245</b>	<b>2.4520</b>	<b>0.8549</b>	<b>3.3069</b>	<b>1.3022</b>	<b>0.7865</b>	<b>2.0887</b>	<b>0.0000</b>	<b>2,372.031 1</b>	<b>2,372.031 1</b>	<b>0.7672</b>		<b>2,391.210 2</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0444	0.0313	0.4925	1.3100e-003	0.1137	8.7000e-004	0.1146	0.0308	8.0000e-004	0.0316		132.7488	132.7488	3.4700e-003	3.1700e-003	133.7801
<b>Total</b>	<b>0.0444</b>	<b>0.0313</b>	<b>0.4925</b>	<b>1.3100e-003</b>	<b>0.1137</b>	<b>8.7000e-004</b>	<b>0.1146</b>	<b>0.0308</b>	<b>8.0000e-004</b>	<b>0.0316</b>		<b>132.7488</b>	<b>132.7488</b>	<b>3.4700e-003</b>	<b>3.1700e-003</b>	<b>133.7801</b>

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0511	1.3212	0.4419	5.3600e-003	0.1793	0.0135	0.1927	0.0516	0.0129	0.0645		578.3308	578.3308	0.0213	0.0840	603.8915
Worker	0.2388	0.1686	2.6521	7.0700e-003	0.7824	4.6900e-003	0.7871	0.2075	4.3100e-003	0.2118		714.8012	714.8012	0.0187	0.0171	720.3543
<b>Total</b>	<b>0.2899</b>	<b>1.4898</b>	<b>3.0940</b>	<b>0.0124</b>	<b>0.9617</b>	<b>0.0182</b>	<b>0.9798</b>	<b>0.2591</b>	<b>0.0172</b>	<b>0.2763</b>		<b>1,293.1321</b>	<b>1,293.1321</b>	<b>0.0400</b>	<b>0.1011</b>	<b>1,324.2458</b>

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Building Construction - 2022**

**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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0511	1.3212	0.4419	5.3600e-003	0.1473	0.0135	0.1608	0.0438	0.0129	0.0567		578.3308	578.3308	0.0213	0.0840	603.8915
Worker	0.2388	0.1686	2.6521	7.0700e-003	0.6124	4.6900e-003	0.6171	0.1658	4.3100e-003	0.1701		714.8012	714.8012	0.0187	0.0171	720.3543
<b>Total</b>	<b>0.2899</b>	<b>1.4898</b>	<b>3.0940</b>	<b>0.0124</b>	<b>0.7597</b>	<b>0.0182</b>	<b>0.7779</b>	<b>0.2095</b>	<b>0.0172</b>	<b>0.2267</b>		<b>1,293.1321</b>	<b>1,293.1321</b>	<b>0.0400</b>	<b>0.1011</b>	<b>1,324.2458</b>

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Paving - 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	lb/day										lb/day					
Off-Road	0.9765	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504		1,805.1297	1,805.1297	0.5672		1,819.3091
Paving	0.1834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1599</b>	<b>9.5221</b>	<b>12.1940</b>	<b>0.0189</b>		<b>0.4877</b>	<b>0.4877</b>		<b>0.4504</b>	<b>0.4504</b>		<b>1,805.1297</b>	<b>1,805.1297</b>	<b>0.5672</b>		<b>1,819.3091</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0682	0.0482	0.7577	2.0200e-003	0.2236	1.3400e-003	0.2249	0.0593	1.2300e-003	0.0605		204.2289	204.2289	5.3400e-003	4.8800e-003	205.8155
<b>Total</b>	<b>0.0682</b>	<b>0.0482</b>	<b>0.7577</b>	<b>2.0200e-003</b>	<b>0.2236</b>	<b>1.3400e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2300e-003</b>	<b>0.0605</b>		<b>204.2289</b>	<b>204.2289</b>	<b>5.3400e-003</b>	<b>4.8800e-003</b>	<b>205.8155</b>

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Paving - 2022**

**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	0.9765	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504	0.0000	1,805.1297	1,805.1297	0.5672		1,819.3091
Paving	0.1834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1599</b>	<b>9.5221</b>	<b>12.1940</b>	<b>0.0189</b>		<b>0.4877</b>	<b>0.4877</b>		<b>0.4504</b>	<b>0.4504</b>	<b>0.0000</b>	<b>1,805.1297</b>	<b>1,805.1297</b>	<b>0.5672</b>		<b>1,819.3091</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0682	0.0482	0.7577	2.0200e-003	0.1750	1.3400e-003	0.1763	0.0474	1.2300e-003	0.0486		204.2289	204.2289	5.3400e-003	4.8800e-003	205.8155
<b>Total</b>	<b>0.0682</b>	<b>0.0482</b>	<b>0.7577</b>	<b>2.0200e-003</b>	<b>0.1750</b>	<b>1.3400e-003</b>	<b>0.1763</b>	<b>0.0474</b>	<b>1.2300e-003</b>	<b>0.0486</b>		<b>204.2289</b>	<b>204.2289</b>	<b>5.3400e-003</b>	<b>4.8800e-003</b>	<b>205.8155</b>

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Paving - 2023**

**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	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.1834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1015</b>	<b>8.7903</b>	<b>12.1905</b>	<b>0.0189</b>		<b>0.4357</b>	<b>0.4357</b>		<b>0.4025</b>	<b>0.4025</b>		<b>1,805.4304</b>	<b>1,805.4304</b>	<b>0.5673</b>		<b>1,819.6122</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0633	0.0426	0.6974	1.9600e-003	0.2236	1.2600e-003	0.2248	0.0593	1.1600e-003	0.0605		197.6503	197.6503	4.7900e-003	4.5000e-003	199.1127
<b>Total</b>	<b>0.0633</b>	<b>0.0426</b>	<b>0.6974</b>	<b>1.9600e-003</b>	<b>0.2236</b>	<b>1.2600e-003</b>	<b>0.2248</b>	<b>0.0593</b>	<b>1.1600e-003</b>	<b>0.0605</b>		<b>197.6503</b>	<b>197.6503</b>	<b>4.7900e-003</b>	<b>4.5000e-003</b>	<b>199.1127</b>



MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Paving - 2023**

**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	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.1834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1015</b>	<b>8.7903</b>	<b>12.1905</b>	<b>0.0189</b>		<b>0.4357</b>	<b>0.4357</b>		<b>0.4025</b>	<b>0.4025</b>	<b>0.0000</b>	<b>1,805.4304</b>	<b>1,805.4304</b>	<b>0.5673</b>		<b>1,819.6122</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0633	0.0426	0.6974	1.9600e-003	0.1750	1.2600e-003	0.1762	0.0474	1.1600e-003	0.0485		197.6503	197.6503	4.7900e-003	4.5000e-003	199.1127
<b>Total</b>	<b>0.0633</b>	<b>0.0426</b>	<b>0.6974</b>	<b>1.9600e-003</b>	<b>0.1750</b>	<b>1.2600e-003</b>	<b>0.1762</b>	<b>0.0474</b>	<b>1.1600e-003</b>	<b>0.0485</b>		<b>197.6503</b>	<b>197.6503</b>	<b>4.7900e-003</b>	<b>4.5000e-003</b>	<b>199.1127</b>

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Architectural Coating - 2023**

**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	17.3102					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>17.5018</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0443	0.0298	0.4882	1.3700e-003	0.1565	8.8000e-004	0.1574	0.0415	8.1000e-004	0.0423		138.3552	138.3552	3.3600e-003	3.1500e-003	139.3789
<b>Total</b>	<b>0.0443</b>	<b>0.0298</b>	<b>0.4882</b>	<b>1.3700e-003</b>	<b>0.1565</b>	<b>8.8000e-004</b>	<b>0.1574</b>	<b>0.0415</b>	<b>8.1000e-004</b>	<b>0.0423</b>		<b>138.3552</b>	<b>138.3552</b>	<b>3.3600e-003</b>	<b>3.1500e-003</b>	<b>139.3789</b>

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Architectural Coating - 2023**

**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	17.3102					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>17.5018</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0443	0.0298	0.4882	1.3700e-003	0.1225	8.8000e-004	0.1234	0.0332	8.1000e-004	0.0340		138.3552	138.3552	3.3600e-003	3.1500e-003	139.3789
<b>Total</b>	<b>0.0443</b>	<b>0.0298</b>	<b>0.4882</b>	<b>1.3700e-003</b>	<b>0.1225</b>	<b>8.8000e-004</b>	<b>0.1234</b>	<b>0.0332</b>	<b>8.1000e-004</b>	<b>0.0340</b>		<b>138.3552</b>	<b>138.3552</b>	<b>3.3600e-003</b>	<b>3.1500e-003</b>	<b>139.3789</b>

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6295	0.7056	6.7210	0.0153	1.5718	0.0107	1.5826	0.4188	9.9700e-003	0.4288		1,562.0448	1,562.0448	0.0933	0.0626	1,583.0175
Unmitigated	0.6295	0.7056	6.7210	0.0153	1.5718	0.0107	1.5826	0.4188	9.9700e-003	0.4288		1,562.0448	1,562.0448	0.0933	0.0626	1,583.0175

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	94.92	38.08	95.69	384,859	384,859
General Office Building	100.08	22.71	7.19	244,045	244,045
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>195.00</b>	<b>60.79</b>	<b>102.88</b>	<b>628,904</b>	<b>628,904</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

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	16.60	8.40	6.90	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
General Light Industry	0.544109	0.060768	0.184625	0.129879	0.023845	0.006339	0.011719	0.008584	0.000815	0.000515	0.024285	0.000743	0.003774
General Office Building	0.544109	0.060768	0.184625	0.129879	0.023845	0.006339	0.011719	0.008584	0.000815	0.000515	0.024285	0.000743	0.003774
Parking Lot	0.544109	0.060768	0.184625	0.129879	0.023845	0.006339	0.011719	0.008584	0.000815	0.000515	0.024285	0.000743	0.003774

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0193	0.1757	0.1476	1.0500e-003		0.0134	0.0134		0.0134	0.0134		210.7792	210.7792	4.0400e-003	3.8600e-003	212.0318
NaturalGas Unmitigated	0.0193	0.1757	0.1476	1.0500e-003		0.0134	0.0134		0.0134	0.0134		210.7792	210.7792	4.0400e-003	3.8600e-003	212.0318

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
General Light Industry	1695.07	0.0183	0.1662	0.1396	1.0000e-003		0.0126	0.0126		0.0126	0.0126		199.4196	199.4196	3.8200e-003	3.6600e-003	200.6046
General Office Building	96.5568	1.0400e-003	9.4700e-003	7.9500e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3596	11.3596	2.2000e-004	2.1000e-004	11.4271
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
<b>Total</b>		<b>0.0193</b>	<b>0.1757</b>	<b>0.1475</b>	<b>1.0600e-003</b>		<b>0.0134</b>	<b>0.0134</b>		<b>0.0134</b>	<b>0.0134</b>		<b>210.7792</b>	<b>210.7792</b>	<b>4.0400e-003</b>	<b>3.8700e-003</b>	<b>212.0318</b>

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	1.69507	0.0183	0.1662	0.1396	1.0000e-003		0.0126	0.0126		0.0126	0.0126		199.4196	199.4196	3.8200e-003	3.6600e-003	200.6046
General Office Building	0.0965568	1.0400e-003	9.4700e-003	7.9500e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3596	11.3596	2.2000e-004	2.1000e-004	11.4271
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
<b>Total</b>		<b>0.0193</b>	<b>0.1757</b>	<b>0.1475</b>	<b>1.0600e-003</b>		<b>0.0134</b>	<b>0.0134</b>		<b>0.0134</b>	<b>0.0134</b>		<b>210.7792</b>	<b>210.7792</b>	<b>4.0400e-003</b>	<b>3.8700e-003</b>	<b>212.0318</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	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	0.7209	3.5000e-004	0.0387	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0830	0.0830	2.2000e-004		0.0885
Unmitigated	0.7209	3.5000e-004	0.0387	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0830	0.0830	2.2000e-004		0.0885

**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	0.0854					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.5900e-003	3.5000e-004	0.0387	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0830	0.0830	2.2000e-004		0.0885
<b>Total</b>	<b>0.7209</b>	<b>3.5000e-004</b>	<b>0.0387</b>	<b>0.0000</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>0.0830</b>	<b>0.0830</b>	<b>2.2000e-004</b>		<b>0.0885</b>



MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	0.0854					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.5900e-003	3.5000e-004	0.0387	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0830	0.0830	2.2000e-004		0.0885
<b>Total</b>	<b>0.7209</b>	<b>3.5000e-004</b>	<b>0.0387</b>	<b>0.0000</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>0.0830</b>	<b>0.0830</b>	<b>2.2000e-004</b>		<b>0.0885</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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**

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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MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**MA21180 Burtec Wilson Yard Project**  
**South Coast Air Basin, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	10.28	1000sqft	0.24	10,275.00	0
General Light Industry	19.14	1000sqft	0.44	19,137.00	0
Parking Lot	179.00	Space	1.61	71,600.00	0
Parking Lot	171.00	Space	1.54	68,400.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use -

Construction Phase - Grading and paving extended due to the size of the parking areas in 2 separate locations on the site.

Off-road Equipment - Site prep equipment reduced due to previous grading and use of the site for truck storage.

Off-road Equipment - Removed excavator due to previous grading on the site.

Grading - Grading adjusted down from default of 20 acres since site is less than 10 and previously graded.

Construction Off-road Equipment Mitigation - Compliance with Rules 401 and 403

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	25
tblConstructionPhase	NumDays	8.00	20.00
tblConstructionPhase	NumDays	18.00	45.00
tblConstructionPhase	PhaseEndDate	1/19/2022	2/4/2022
tblConstructionPhase	PhaseEndDate	1/2/2023	2/8/2023
tblGrading	AcresOfGrading	20.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00

**2.0 Emissions Summary**

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MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	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
Year	lb/day										lb/day					
2022	3.8034	36.2891	31.7020	0.0647	13.2165	1.6830	14.2321	6.7646	1.5657	7.6990	0.0000	6,305.1188	6,305.1188	1.4228	0.1056	6,372.1565
2023	18.7179	10.1728	15.0822	0.0250	0.3800	0.5086	0.8887	0.1008	0.4753	0.5761	0.0000	2,404.1591	2,404.1591	0.5924	8.1400e-003	2,421.3943
<b>Maximum</b>	<b>18.7179</b>	<b>36.2891</b>	<b>31.7020</b>	<b>0.0647</b>	<b>13.2165</b>	<b>1.6830</b>	<b>14.2321</b>	<b>6.7646</b>	<b>1.5657</b>	<b>7.6990</b>	<b>0.0000</b>	<b>6,305.1188</b>	<b>6,305.1188</b>	<b>1.4228</b>	<b>0.1056</b>	<b>6,372.1565</b>

**Mitigated Construction**

	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
Year	lb/day										lb/day					
2022	3.8034	36.2891	31.7020	0.0647	5.1983	1.6830	6.2139	2.6503	1.5657	3.5847	0.0000	6,305.1188	6,305.1188	1.4228	0.1056	6,372.1564
2023	18.7179	10.1728	15.0822	0.0250	0.2975	0.5086	0.8061	0.0805	0.4753	0.5558	0.0000	2,404.1591	2,404.1591	0.5924	8.1400e-003	2,421.3943
<b>Maximum</b>	<b>18.7179</b>	<b>36.2891</b>	<b>31.7020</b>	<b>0.0647</b>	<b>5.1983</b>	<b>1.6830</b>	<b>6.2139</b>	<b>2.6503</b>	<b>1.5657</b>	<b>3.5847</b>	<b>0.0000</b>	<b>6,305.1188</b>	<b>6,305.1188</b>	<b>1.4228</b>	<b>0.1056</b>	<b>6,372.1564</b>

## MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	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	59.58	0.00	53.57	60.22	0.00	49.96	0.00	0.00	0.00	0.00	0.00	0.00

MA21180 Burttec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	0.7209	3.5000e-004	0.0387	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0830	0.0830	2.2000e-004		0.0885
Energy	0.0193	0.1757	0.1476	1.0500e-003		0.0134	0.0134		0.0134	0.0134		210.7792	210.7792	4.0400e-003	3.8600e-003	212.0318
Mobile	0.6139	0.7586	6.4854	0.0146	1.5718	0.0107	1.5826	0.4188	9.9800e-003	0.4288		1,491.9150	1,491.9150	0.0956	0.0651	1,513.7047
<b>Total</b>	<b>1.3541</b>	<b>0.9346</b>	<b>6.6717</b>	<b>0.0157</b>	<b>1.5718</b>	<b>0.0242</b>	<b>1.5961</b>	<b>0.4188</b>	<b>0.0235</b>	<b>0.4423</b>		<b>1,702.7773</b>	<b>1,702.7773</b>	<b>0.0999</b>	<b>0.0690</b>	<b>1,725.8249</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	0.7209	3.5000e-004	0.0387	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0830	0.0830	2.2000e-004		0.0885
Energy	0.0193	0.1757	0.1476	1.0500e-003		0.0134	0.0134		0.0134	0.0134		210.7792	210.7792	4.0400e-003	3.8600e-003	212.0318
Mobile	0.6139	0.7586	6.4854	0.0146	1.5718	0.0107	1.5826	0.4188	9.9800e-003	0.4288		1,491.9150	1,491.9150	0.0956	0.0651	1,513.7047
<b>Total</b>	<b>1.3541</b>	<b>0.9346</b>	<b>6.6717</b>	<b>0.0157</b>	<b>1.5718</b>	<b>0.0242</b>	<b>1.5961</b>	<b>0.4188</b>	<b>0.0235</b>	<b>0.4423</b>		<b>1,702.7773</b>	<b>1,702.7773</b>	<b>0.0999</b>	<b>0.0690</b>	<b>1,725.8249</b>

MA21180 Burttec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2022	1/7/2022	5	5	
2	Grading	Grading	1/8/2022	2/4/2022	5	20	
3	Building Construction	Building Construction	1/20/2022	12/7/2022	5	230	
4	Paving	Paving	12/8/2022	2/8/2023	5	45	
5	Architectural Coating	Architectural Coating	1/3/2023	1/26/2023	5	18	

**Acres of Grading (Site Preparation Phase): 5**

**Acres of Grading (Grading Phase): 5**

**Acres of Paving: 3.15**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 44,118; Non-Residential Outdoor: 14,706; Striped Parking Area: 8,400 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
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
Grading	Graders	1	8.00	187	0.41



MA21180 Burttec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

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
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
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	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	70.00	28.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					13.1047	0.0000	13.1047	6.7350	0.0000	6.7350			0.0000			0.0000
Off-Road	2.0036	20.9386	11.6399	0.0233		1.0150	1.0150		0.9338	0.9338		2,256.5486	2,256.5486	0.7298		2,274.7939
<b>Total</b>	<b>2.0036</b>	<b>20.9386</b>	<b>11.6399</b>	<b>0.0233</b>	<b>13.1047</b>	<b>1.0150</b>	<b>14.1196</b>	<b>6.7350</b>	<b>0.9338</b>	<b>7.6687</b>		<b>2,256.5486</b>	<b>2,256.5486</b>	<b>0.7298</b>		<b>2,274.7939</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0362	0.0264	0.3450	9.5000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		96.4113	96.4113	2.7100e-003	2.5900e-003	97.2514
<b>Total</b>	<b>0.0362</b>	<b>0.0264</b>	<b>0.3450</b>	<b>9.5000e-004</b>	<b>0.1118</b>	<b>6.7000e-004</b>	<b>0.1125</b>	<b>0.0296</b>	<b>6.2000e-004</b>	<b>0.0303</b>		<b>96.4113</b>	<b>96.4113</b>	<b>2.7100e-003</b>	<b>2.5900e-003</b>	<b>97.2514</b>

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Site Preparation - 2022**

**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					5.1108	0.0000	5.1108	2.6266	0.0000	2.6266			0.0000			0.0000
Off-Road	2.0036	20.9386	11.6399	0.0233		1.0150	1.0150		0.9338	0.9338	0.0000	2,256.5486	2,256.5486	0.7298		2,274.7939
<b>Total</b>	<b>2.0036</b>	<b>20.9386</b>	<b>11.6399</b>	<b>0.0233</b>	<b>5.1108</b>	<b>1.0150</b>	<b>6.1258</b>	<b>2.6266</b>	<b>0.9338</b>	<b>3.5604</b>	<b>0.0000</b>	<b>2,256.5486</b>	<b>2,256.5486</b>	<b>0.7298</b>		<b>2,274.7939</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0362	0.0264	0.3450	9.5000e-004	0.0875	6.7000e-004	0.0882	0.0237	6.2000e-004	0.0243		96.4113	96.4113	2.7100e-003	2.5900e-003	97.2514
<b>Total</b>	<b>0.0362</b>	<b>0.0264</b>	<b>0.3450</b>	<b>9.5000e-004</b>	<b>0.0875</b>	<b>6.7000e-004</b>	<b>0.0882</b>	<b>0.0237</b>	<b>6.2000e-004</b>	<b>0.0243</b>		<b>96.4113</b>	<b>96.4113</b>	<b>2.7100e-003</b>	<b>2.5900e-003</b>	<b>97.2514</b>

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Grading - 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	lb/day										lb/day					
Fugitive Dust					6.2872	0.0000	6.2872	3.3389	0.0000	3.3389			0.0000			0.0000
Off-Road	1.7462	19.0782	12.0176	0.0245		0.8549	0.8549		0.7865	0.7865		2,372.031 1	2,372.031 1	0.7672		2,391.210 2
<b>Total</b>	<b>1.7462</b>	<b>19.0782</b>	<b>12.0176</b>	<b>0.0245</b>	<b>6.2872</b>	<b>0.8549</b>	<b>7.1421</b>	<b>3.3389</b>	<b>0.7865</b>	<b>4.1254</b>		<b>2,372.031 1</b>	<b>2,372.031 1</b>	<b>0.7672</b>		<b>2,391.210 2</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0471	0.0344	0.4485	1.2400e-003	0.1453	8.7000e-004	0.1462	0.0385	8.0000e-004	0.0393		125.3346	125.3346	3.5200e-003	3.3700e-003	126.4268
<b>Total</b>	<b>0.0471</b>	<b>0.0344</b>	<b>0.4485</b>	<b>1.2400e-003</b>	<b>0.1453</b>	<b>8.7000e-004</b>	<b>0.1462</b>	<b>0.0385</b>	<b>8.0000e-004</b>	<b>0.0393</b>		<b>125.3346</b>	<b>125.3346</b>	<b>3.5200e-003</b>	<b>3.3700e-003</b>	<b>126.4268</b>

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Grading - 2022**

**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					2.4520	0.0000	2.4520	1.3022	0.0000	1.3022			0.0000			0.0000
Off-Road	1.7462	19.0782	12.0176	0.0245		0.8549	0.8549		0.7865	0.7865	0.0000	2,372.031 1	2,372.031 1	0.7672		2,391.210 2
<b>Total</b>	<b>1.7462</b>	<b>19.0782</b>	<b>12.0176</b>	<b>0.0245</b>	<b>2.4520</b>	<b>0.8549</b>	<b>3.3069</b>	<b>1.3022</b>	<b>0.7865</b>	<b>2.0887</b>	<b>0.0000</b>	<b>2,372.031 1</b>	<b>2,372.031 1</b>	<b>0.7672</b>		<b>2,391.210 2</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0471	0.0344	0.4485	1.2400e-003	0.1137	8.7000e-004	0.1146	0.0308	8.0000e-004	0.0316		125.3346	125.3346	3.5200e-003	3.3700e-003	126.4268
<b>Total</b>	<b>0.0471</b>	<b>0.0344</b>	<b>0.4485</b>	<b>1.2400e-003</b>	<b>0.1137</b>	<b>8.7000e-004</b>	<b>0.1146</b>	<b>0.0308</b>	<b>8.0000e-004</b>	<b>0.0316</b>		<b>125.3346</b>	<b>125.3346</b>	<b>3.5200e-003</b>	<b>3.3700e-003</b>	<b>126.4268</b>

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0504	1.3759	0.4576	5.3700e-003	0.1793	0.0135	0.1928	0.0516	0.0129	0.0645		578.5406	578.5406	0.0212	0.0841	604.1276
Worker	0.2535	0.1850	2.4149	6.6800e-003	0.7824	4.6900e-003	0.7871	0.2075	4.3100e-003	0.2118		674.8789	674.8789	0.0190	0.0181	680.7597
<b>Total</b>	<b>0.3038</b>	<b>1.5609</b>	<b>2.8725</b>	<b>0.0121</b>	<b>0.9617</b>	<b>0.0182</b>	<b>0.9799</b>	<b>0.2591</b>	<b>0.0172</b>	<b>0.2764</b>		<b>1,253.4194</b>	<b>1,253.4194</b>	<b>0.0402</b>	<b>0.1022</b>	<b>1,284.8872</b>

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Building Construction - 2022**

**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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0504	1.3759	0.4576	5.3700e-003	0.1473	0.0135	0.1608	0.0438	0.0129	0.0567		578.5406	578.5406	0.0212	0.0841	604.1276
Worker	0.2535	0.1850	2.4149	6.6800e-003	0.6124	4.6900e-003	0.6171	0.1658	4.3100e-003	0.1701		674.8789	674.8789	0.0190	0.0181	680.7597
<b>Total</b>	<b>0.3038</b>	<b>1.5609</b>	<b>2.8725</b>	<b>0.0121</b>	<b>0.7597</b>	<b>0.0182</b>	<b>0.7779</b>	<b>0.2095</b>	<b>0.0172</b>	<b>0.2268</b>		<b>1,253.4194</b>	<b>1,253.4194</b>	<b>0.0402</b>	<b>0.1022</b>	<b>1,284.8872</b>

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Paving - 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	lb/day										lb/day					
Off-Road	0.9765	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504		1,805.1297	1,805.1297	0.5672		1,819.3091
Paving	0.1834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1599</b>	<b>9.5221</b>	<b>12.1940</b>	<b>0.0189</b>		<b>0.4877</b>	<b>0.4877</b>		<b>0.4504</b>	<b>0.4504</b>		<b>1,805.1297</b>	<b>1,805.1297</b>	<b>0.5672</b>		<b>1,819.3091</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0724	0.0529	0.6900	1.9100e-003	0.2236	1.3400e-003	0.2249	0.0593	1.2300e-003	0.0605		192.8225	192.8225	5.4100e-003	5.1800e-003	194.5028
<b>Total</b>	<b>0.0724</b>	<b>0.0529</b>	<b>0.6900</b>	<b>1.9100e-003</b>	<b>0.2236</b>	<b>1.3400e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2300e-003</b>	<b>0.0605</b>		<b>192.8225</b>	<b>192.8225</b>	<b>5.4100e-003</b>	<b>5.1800e-003</b>	<b>194.5028</b>



MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Paving - 2022**

**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	0.9765	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504	0.0000	1,805.1297	1,805.1297	0.5672		1,819.3091
Paving	0.1834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1599</b>	<b>9.5221</b>	<b>12.1940</b>	<b>0.0189</b>		<b>0.4877</b>	<b>0.4877</b>		<b>0.4504</b>	<b>0.4504</b>	<b>0.0000</b>	<b>1,805.1297</b>	<b>1,805.1297</b>	<b>0.5672</b>		<b>1,819.3091</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0724	0.0529	0.6900	1.9100e-003	0.1750	1.3400e-003	0.1763	0.0474	1.2300e-003	0.0486		192.8225	192.8225	5.4100e-003	5.1800e-003	194.5028
<b>Total</b>	<b>0.0724</b>	<b>0.0529</b>	<b>0.6900</b>	<b>1.9100e-003</b>	<b>0.1750</b>	<b>1.3400e-003</b>	<b>0.1763</b>	<b>0.0474</b>	<b>1.2300e-003</b>	<b>0.0486</b>		<b>192.8225</b>	<b>192.8225</b>	<b>5.4100e-003</b>	<b>5.1800e-003</b>	<b>194.5028</b>

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Paving - 2023**

**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	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.1834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1015</b>	<b>8.7903</b>	<b>12.1905</b>	<b>0.0189</b>		<b>0.4357</b>	<b>0.4357</b>		<b>0.4025</b>	<b>0.4025</b>		<b>1,805.4304</b>	<b>1,805.4304</b>	<b>0.5673</b>		<b>1,819.6122</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0674	0.0467	0.6357	1.8500e-003	0.2236	1.2600e-003	0.2248	0.0593	1.1600e-003	0.0605		186.6357	186.6357	4.8700e-003	4.7900e-003	188.1842
<b>Total</b>	<b>0.0674</b>	<b>0.0467</b>	<b>0.6357</b>	<b>1.8500e-003</b>	<b>0.2236</b>	<b>1.2600e-003</b>	<b>0.2248</b>	<b>0.0593</b>	<b>1.1600e-003</b>	<b>0.0605</b>		<b>186.6357</b>	<b>186.6357</b>	<b>4.8700e-003</b>	<b>4.7900e-003</b>	<b>188.1842</b>

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Paving - 2023**

**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	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.1834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1015</b>	<b>8.7903</b>	<b>12.1905</b>	<b>0.0189</b>		<b>0.4357</b>	<b>0.4357</b>		<b>0.4025</b>	<b>0.4025</b>	<b>0.0000</b>	<b>1,805.4304</b>	<b>1,805.4304</b>	<b>0.5673</b>		<b>1,819.6122</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0674	0.0467	0.6357	1.8500e-003	0.1750	1.2600e-003	0.1762	0.0474	1.1600e-003	0.0485		186.6357	186.6357	4.8700e-003	4.7900e-003	188.1842
<b>Total</b>	<b>0.0674</b>	<b>0.0467</b>	<b>0.6357</b>	<b>1.8500e-003</b>	<b>0.1750</b>	<b>1.2600e-003</b>	<b>0.1762</b>	<b>0.0474</b>	<b>1.1600e-003</b>	<b>0.0485</b>		<b>186.6357</b>	<b>186.6357</b>	<b>4.8700e-003</b>	<b>4.7900e-003</b>	<b>188.1842</b>

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Architectural Coating - 2023**

**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	17.3102					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>17.5018</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0472	0.0327	0.4450	1.2900e-003	0.1565	8.8000e-004	0.1574	0.0415	8.1000e-004	0.0423		130.6450	130.6450	3.4100e-003	3.3500e-003	131.7289
<b>Total</b>	<b>0.0472</b>	<b>0.0327</b>	<b>0.4450</b>	<b>1.2900e-003</b>	<b>0.1565</b>	<b>8.8000e-004</b>	<b>0.1574</b>	<b>0.0415</b>	<b>8.1000e-004</b>	<b>0.0423</b>		<b>130.6450</b>	<b>130.6450</b>	<b>3.4100e-003</b>	<b>3.3500e-003</b>	<b>131.7289</b>

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Architectural Coating - 2023**

**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	17.3102					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>17.5018</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0472	0.0327	0.4450	1.2900e-003	0.1225	8.8000e-004	0.1234	0.0332	8.1000e-004	0.0340		130.6450	130.6450	3.4100e-003	3.3500e-003	131.7289
<b>Total</b>	<b>0.0472</b>	<b>0.0327</b>	<b>0.4450</b>	<b>1.2900e-003</b>	<b>0.1225</b>	<b>8.8000e-004</b>	<b>0.1234</b>	<b>0.0332</b>	<b>8.1000e-004</b>	<b>0.0340</b>		<b>130.6450</b>	<b>130.6450</b>	<b>3.4100e-003</b>	<b>3.3500e-003</b>	<b>131.7289</b>

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6139	0.7586	6.4854	0.0146	1.5718	0.0107	1.5826	0.4188	9.9800e-003	0.4288		1,491.9150	1,491.9150	0.0956	0.0651	1,513.7047
Unmitigated	0.6139	0.7586	6.4854	0.0146	1.5718	0.0107	1.5826	0.4188	9.9800e-003	0.4288		1,491.9150	1,491.9150	0.0956	0.0651	1,513.7047

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	94.92	38.08	95.69	384,859	384,859
General Office Building	100.08	22.71	7.19	244,045	244,045
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>195.00</b>	<b>60.79</b>	<b>102.88</b>	<b>628,904</b>	<b>628,904</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

MA21180 Burttec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

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	16.60	8.40	6.90	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
General Light Industry	0.544109	0.060768	0.184625	0.129879	0.023845	0.006339	0.011719	0.008584	0.000815	0.000515	0.024285	0.000743	0.003774
General Office Building	0.544109	0.060768	0.184625	0.129879	0.023845	0.006339	0.011719	0.008584	0.000815	0.000515	0.024285	0.000743	0.003774
Parking Lot	0.544109	0.060768	0.184625	0.129879	0.023845	0.006339	0.011719	0.008584	0.000815	0.000515	0.024285	0.000743	0.003774

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0193	0.1757	0.1476	1.0500e-003		0.0134	0.0134		0.0134	0.0134		210.7792	210.7792	4.0400e-003	3.8600e-003	212.0318
NaturalGas Unmitigated	0.0193	0.1757	0.1476	1.0500e-003		0.0134	0.0134		0.0134	0.0134		210.7792	210.7792	4.0400e-003	3.8600e-003	212.0318

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
General Light Industry	1695.07	0.0183	0.1662	0.1396	1.0000e-003		0.0126	0.0126		0.0126	0.0126		199.4196	199.4196	3.8200e-003	3.6600e-003	200.6046
General Office Building	96.5568	1.0400e-003	9.4700e-003	7.9500e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3596	11.3596	2.2000e-004	2.1000e-004	11.4271
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
<b>Total</b>		<b>0.0193</b>	<b>0.1757</b>	<b>0.1475</b>	<b>1.0600e-003</b>		<b>0.0134</b>	<b>0.0134</b>		<b>0.0134</b>	<b>0.0134</b>		<b>210.7792</b>	<b>210.7792</b>	<b>4.0400e-003</b>	<b>3.8700e-003</b>	<b>212.0318</b>



MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	1.69507	0.0183	0.1662	0.1396	1.0000e-003		0.0126	0.0126		0.0126	0.0126		199.4196	199.4196	3.8200e-003	3.6600e-003	200.6046
General Office Building	0.0965568	1.0400e-003	9.4700e-003	7.9500e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3596	11.3596	2.2000e-004	2.1000e-004	11.4271
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
<b>Total</b>		<b>0.0193</b>	<b>0.1757</b>	<b>0.1475</b>	<b>1.0600e-003</b>		<b>0.0134</b>	<b>0.0134</b>		<b>0.0134</b>	<b>0.0134</b>		<b>210.7792</b>	<b>210.7792</b>	<b>4.0400e-003</b>	<b>3.8700e-003</b>	<b>212.0318</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	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	0.7209	3.5000e-004	0.0387	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0830	0.0830	2.2000e-004		0.0885
Unmitigated	0.7209	3.5000e-004	0.0387	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0830	0.0830	2.2000e-004		0.0885

**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	0.0854					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.5900e-003	3.5000e-004	0.0387	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0830	0.0830	2.2000e-004		0.0885
<b>Total</b>	<b>0.7209</b>	<b>3.5000e-004</b>	<b>0.0387</b>	<b>0.0000</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>0.0830</b>	<b>0.0830</b>	<b>2.2000e-004</b>		<b>0.0885</b>

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	0.0854					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.5900e-003	3.5000e-004	0.0387	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0830	0.0830	2.2000e-004		0.0885
<b>Total</b>	<b>0.7209</b>	<b>3.5000e-004</b>	<b>0.0387</b>	<b>0.0000</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>0.0830</b>	<b>0.0830</b>	<b>2.2000e-004</b>		<b>0.0885</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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**

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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MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**MA21180 Burtec Wilson Yard Project  
South Coast Air Basin, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	10.28	1000sqft	0.24	10,275.00	0
General Light Industry	19.14	1000sqft	0.44	19,137.00	0
Parking Lot	179.00	Space	1.61	71,600.00	0
Parking Lot	171.00	Space	1.54	68,400.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use -

Construction Phase - Grading and paving extended due to the size of the parking areas in 2 separate locations on the site.

Off-road Equipment - Site prep equipment reduced due to previous grading and use of the site for truck storage.

Off-road Equipment - Removed excavator due to previous grading on the site.

Grading - Grading adjusted down from default of 20 acres since site is less than 10 and previously graded.

Construction Off-road Equipment Mitigation - Compliance with Rules 401 and 403

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	25
tblConstructionPhase	NumDays	8.00	20.00
tblConstructionPhase	NumDays	18.00	45.00
tblConstructionPhase	PhaseEndDate	1/19/2022	2/4/2022
tblConstructionPhase	PhaseEndDate	1/2/2023	2/8/2023
tblGrading	AcresOfGrading	20.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00

**2.0 Emissions Summary**

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MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.1 Overall Construction**

**Unmitigated Construction**

	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
Year	tons/yr										MT/yr					
2022	0.2624	2.3020	2.4827	4.9900e-003	0.2078	0.1104	0.3182	0.0805	0.1036	0.1841	0.0000	441.6733	441.6733	0.0811	0.0108	446.9113
2023	0.1742	0.1358	0.2002	3.3000e-004	4.4500e-003	6.7600e-003	0.0112	1.1800e-003	6.3000e-003	7.4800e-003	0.0000	28.7136	28.7136	7.4300e-003	9.0000e-005	28.9261
<b>Maximum</b>	<b>0.2624</b>	<b>2.3020</b>	<b>2.4827</b>	<b>4.9900e-003</b>	<b>0.2078</b>	<b>0.1104</b>	<b>0.3182</b>	<b>0.0805</b>	<b>0.1036</b>	<b>0.1841</b>	<b>0.0000</b>	<b>441.6733</b>	<b>441.6733</b>	<b>0.0811</b>	<b>0.0108</b>	<b>446.9113</b>

**Mitigated Construction**

	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
Year	tons/yr										MT/yr					
2022	0.2624	2.3020	2.4827	4.9900e-003	0.1260	0.1104	0.2364	0.0441	0.1036	0.1476	0.0000	441.6729	441.6729	0.0811	0.0108	446.9110
2023	0.1742	0.1358	0.2002	3.3000e-004	3.4900e-003	6.7600e-003	0.0103	9.5000e-004	6.3000e-003	7.2400e-003	0.0000	28.7136	28.7136	7.4300e-003	9.0000e-005	28.9261
<b>Maximum</b>	<b>0.2624</b>	<b>2.3020</b>	<b>2.4827</b>	<b>4.9900e-003</b>	<b>0.1260</b>	<b>0.1104</b>	<b>0.2364</b>	<b>0.0441</b>	<b>0.1036</b>	<b>0.1476</b>	<b>0.0000</b>	<b>441.6729</b>	<b>441.6729</b>	<b>0.0811</b>	<b>0.0108</b>	<b>446.9110</b>

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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
Percent Reduction	0.00	0.00	0.00	0.00	39.01	0.00	25.14	44.86	0.00	19.14	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	12-6-2021	3-5-2022	0.5749	0.5749
2	3-6-2022	6-5-2022	0.6284	0.6284
3	6-6-2022	9-5-2022	0.6276	0.6276
4	9-6-2022	12-5-2022	0.6228	0.6228
5	12-6-2022	3-5-2023	0.4076	0.4076
		Highest	0.6284	0.6284

**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	0.1314	4.0000e-005	4.8400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.4200e-003	9.4200e-003	2.0000e-005	0.0000	0.0100
Energy	3.5300e-003	0.0321	0.0269	1.9000e-004		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003	0.0000	94.0002	94.0002	5.6600e-003	1.2400e-003	94.5124
Mobile	0.0921	0.1179	1.0043	2.2700e-003	0.2367	1.6400e-003	0.2384	0.0632	1.5300e-003	0.0647	0.0000	209.6475	209.6475	0.0132	9.1000e-003	212.6911
Waste						0.0000	0.0000		0.0000	0.0000	6.7576	0.0000	6.7576	0.3994	0.0000	16.7416
Water						0.0000	0.0000		0.0000	0.0000	1.9839	16.6465	18.6303	0.2052	4.9800e-003	25.2440
<b>Total</b>	<b>0.2269</b>	<b>0.1500</b>	<b>1.0361</b>	<b>2.4600e-003</b>	<b>0.2367</b>	<b>4.1000e-003</b>	<b>0.2408</b>	<b>0.0632</b>	<b>3.9900e-003</b>	<b>0.0672</b>	<b>8.7414</b>	<b>320.3036</b>	<b>329.0450</b>	<b>0.6234</b>	<b>0.0153</b>	<b>349.1991</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	0.1314	4.0000e-005	4.8400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.4200e-003	9.4200e-003	2.0000e-005	0.0000	0.0100
Energy	3.5300e-003	0.0321	0.0269	1.9000e-004		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003	0.0000	94.0002	94.0002	5.6600e-003	1.2400e-003	94.5124
Mobile	0.0921	0.1179	1.0043	2.2700e-003	0.2367	1.6400e-003	0.2384	0.0632	1.5300e-003	0.0647	0.0000	209.6475	209.6475	0.0132	9.1000e-003	212.6911
Waste						0.0000	0.0000		0.0000	0.0000	6.7576	0.0000	6.7576	0.3994	0.0000	16.7416
Water						0.0000	0.0000		0.0000	0.0000	1.9839	16.6465	18.6303	0.2052	4.9800e-003	25.2440
<b>Total</b>	<b>0.2269</b>	<b>0.1500</b>	<b>1.0361</b>	<b>2.4600e-003</b>	<b>0.2367</b>	<b>4.1000e-003</b>	<b>0.2408</b>	<b>0.0632</b>	<b>3.9900e-003</b>	<b>0.0672</b>	<b>8.7414</b>	<b>320.3036</b>	<b>329.0450</b>	<b>0.6234</b>	<b>0.0153</b>	<b>349.1991</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2022	1/7/2022	5	5	
2	Grading	Grading	1/8/2022	2/4/2022	5	20	
3	Building Construction	Building Construction	1/20/2022	12/7/2022	5	230	

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4	Paving	Paving	12/8/2022	2/8/2023	5	45
5	Architectural Coating	Architectural Coating	1/3/2023	1/26/2023	5	18

**Acres of Grading (Site Preparation Phase): 5**

**Acres of Grading (Grading Phase): 5**

**Acres of Paving: 3.15**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 44,118; Non-Residential Outdoor: 14,706; Striped Parking Area: 8,400 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
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
Grading	Graders	1	8.00	187	0.41
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
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

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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	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	70.00	28.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation - 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					
Fugitive Dust					0.0328	0.0000	0.0328	0.0168	0.0000	0.0168	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0100e-003	0.0524	0.0291	6.0000e-005		2.5400e-003	2.5400e-003		2.3300e-003	2.3300e-003	0.0000	5.1178	5.1178	1.6600e-003	0.0000	5.1592
<b>Total</b>	<b>5.0100e-003</b>	<b>0.0524</b>	<b>0.0291</b>	<b>6.0000e-005</b>	<b>0.0328</b>	<b>2.5400e-003</b>	<b>0.0353</b>	<b>0.0168</b>	<b>2.3300e-003</b>	<b>0.0192</b>	<b>0.0000</b>	<b>5.1178</b>	<b>5.1178</b>	<b>1.6600e-003</b>	<b>0.0000</b>	<b>5.1592</b>

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**3.2 Site Preparation - 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	8.0000e-005	7.0000e-005	8.8000e-004	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2218	0.2218	1.0000e-005	1.0000e-005	0.2237
<b>Total</b>	<b>8.0000e-005</b>	<b>7.0000e-005</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2218</b>	<b>0.2218</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2237</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					0.0128	0.0000	0.0128	6.5700e-003	0.0000	6.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0100e-003	0.0524	0.0291	6.0000e-005		2.5400e-003	2.5400e-003		2.3300e-003	2.3300e-003	0.0000	5.1178	5.1178	1.6600e-003	0.0000	5.1591
<b>Total</b>	<b>5.0100e-003</b>	<b>0.0524</b>	<b>0.0291</b>	<b>6.0000e-005</b>	<b>0.0128</b>	<b>2.5400e-003</b>	<b>0.0153</b>	<b>6.5700e-003</b>	<b>2.3300e-003</b>	<b>8.9000e-003</b>	<b>0.0000</b>	<b>5.1178</b>	<b>5.1178</b>	<b>1.6600e-003</b>	<b>0.0000</b>	<b>5.1591</b>

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**3.2 Site Preparation - 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	8.0000e-005	7.0000e-005	8.8000e-004	0.0000	2.1000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2218	0.2218	1.0000e-005	1.0000e-005	0.2237
<b>Total</b>	<b>8.0000e-005</b>	<b>7.0000e-005</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.2218</b>	<b>0.2218</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2237</b>

**3.3 Grading - 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					
Fugitive Dust					0.0629	0.0000	0.0629	0.0334	0.0000	0.0334	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.1908	0.1202	2.4000e-004		8.5500e-003	8.5500e-003		7.8700e-003	7.8700e-003	0.0000	21.5187	21.5187	6.9600e-003	0.0000	21.6927
<b>Total</b>	<b>0.0175</b>	<b>0.1908</b>	<b>0.1202</b>	<b>2.4000e-004</b>	<b>0.0629</b>	<b>8.5500e-003</b>	<b>0.0714</b>	<b>0.0334</b>	<b>7.8700e-003</b>	<b>0.0413</b>	<b>0.0000</b>	<b>21.5187</b>	<b>21.5187</b>	<b>6.9600e-003</b>	<b>0.0000</b>	<b>21.6927</b>

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**3.3 Grading - 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	4.3000e-004	3.5000e-004	4.6000e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1531	1.1531	3.0000e-005	3.0000e-005	1.1632
<b>Total</b>	<b>4.3000e-004</b>	<b>3.5000e-004</b>	<b>4.6000e-003</b>	<b>1.0000e-005</b>	<b>1.4300e-003</b>	<b>1.0000e-005</b>	<b>1.4300e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.1531</b>	<b>1.1531</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.1632</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					0.0245	0.0000	0.0245	0.0130	0.0000	0.0130	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.1908	0.1202	2.4000e-004		8.5500e-003	8.5500e-003		7.8700e-003	7.8700e-003	0.0000	21.5187	21.5187	6.9600e-003	0.0000	21.6927
<b>Total</b>	<b>0.0175</b>	<b>0.1908</b>	<b>0.1202</b>	<b>2.4000e-004</b>	<b>0.0245</b>	<b>8.5500e-003</b>	<b>0.0331</b>	<b>0.0130</b>	<b>7.8700e-003</b>	<b>0.0209</b>	<b>0.0000</b>	<b>21.5187</b>	<b>21.5187</b>	<b>6.9600e-003</b>	<b>0.0000</b>	<b>21.6927</b>

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**3.3 Grading - 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	4.3000e-004	3.5000e-004	4.6000e-003	1.0000e-005	1.1200e-003	1.0000e-005	1.1300e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.1531	1.1531	3.0000e-005	3.0000e-005	1.1632
<b>Total</b>	<b>4.3000e-004</b>	<b>3.5000e-004</b>	<b>4.6000e-003</b>	<b>1.0000e-005</b>	<b>1.1200e-003</b>	<b>1.0000e-005</b>	<b>1.1300e-003</b>	<b>3.0000e-004</b>	<b>1.0000e-005</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>1.1531</b>	<b>1.1531</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.1632</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	0.1962	1.7958	1.8818	3.1000e-003		0.0930	0.0930		0.0875	0.0875	0.0000	266.4840	266.4840	0.0638	0.0000	268.0801
<b>Total</b>	<b>0.1962</b>	<b>1.7958</b>	<b>1.8818</b>	<b>3.1000e-003</b>		<b>0.0930</b>	<b>0.0930</b>		<b>0.0875</b>	<b>0.0875</b>	<b>0.0000</b>	<b>266.4840</b>	<b>266.4840</b>	<b>0.0638</b>	<b>0.0000</b>	<b>268.0801</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	5.8300e-003	0.1594	0.0516	6.2000e-004	0.0203	1.5500e-003	0.0219	5.8600e-003	1.4800e-003	7.3400e-003	0.0000	60.3444	60.3444	2.2200e-003	8.7700e-003	63.0136
Worker	0.0269	0.0218	0.2849	7.8000e-004	0.0883	5.4000e-004	0.0889	0.0235	5.0000e-004	0.0240	0.0000	71.4061	71.4061	1.9800e-003	1.9200e-003	72.0290
<b>Total</b>	<b>0.0328</b>	<b>0.1812</b>	<b>0.3365</b>	<b>1.4000e-003</b>	<b>0.1086</b>	<b>2.0900e-003</b>	<b>0.1107</b>	<b>0.0293</b>	<b>1.9800e-003</b>	<b>0.0313</b>	<b>0.0000</b>	<b>131.7504</b>	<b>131.7504</b>	<b>4.2000e-003</b>	<b>0.0107</b>	<b>135.0426</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	tons/yr										MT/yr					
Off-Road	0.1962	1.7958	1.8818	3.1000e-003		0.0930	0.0930		0.0875	0.0875	0.0000	266.4837	266.4837	0.0638	0.0000	268.0798
<b>Total</b>	<b>0.1962</b>	<b>1.7958</b>	<b>1.8818</b>	<b>3.1000e-003</b>		<b>0.0930</b>	<b>0.0930</b>		<b>0.0875</b>	<b>0.0875</b>	<b>0.0000</b>	<b>266.4837</b>	<b>266.4837</b>	<b>0.0638</b>	<b>0.0000</b>	<b>268.0798</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	5.8300e-003	0.1594	0.0516	6.2000e-004	0.0167	1.5500e-003	0.0183	4.9800e-003	1.4800e-003	6.4600e-003	0.0000	60.3444	60.3444	2.2200e-003	8.7700e-003	63.0136
Worker	0.0269	0.0218	0.2849	7.8000e-004	0.0692	5.4000e-004	0.0697	0.0188	5.0000e-004	0.0193	0.0000	71.4061	71.4061	1.9800e-003	1.9200e-003	72.0290
<b>Total</b>	<b>0.0328</b>	<b>0.1812</b>	<b>0.3365</b>	<b>1.4000e-003</b>	<b>0.0859</b>	<b>2.0900e-003</b>	<b>0.0880</b>	<b>0.0237</b>	<b>1.9800e-003</b>	<b>0.0257</b>	<b>0.0000</b>	<b>131.7504</b>	<b>131.7504</b>	<b>4.2000e-003</b>	<b>0.0107</b>	<b>135.0426</b>

**3.5 Paving - 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	8.3000e-003	0.0809	0.1037	1.6000e-004		4.1500e-003	4.1500e-003		3.8300e-003	3.8300e-003	0.0000	13.9195	13.9195	4.3700e-003	0.0000	14.0288
Paving	1.5600e-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>9.8600e-003</b>	<b>0.0809</b>	<b>0.1037</b>	<b>1.6000e-004</b>		<b>4.1500e-003</b>	<b>4.1500e-003</b>		<b>3.8300e-003</b>	<b>3.8300e-003</b>	<b>0.0000</b>	<b>13.9195</b>	<b>13.9195</b>	<b>4.3700e-003</b>	<b>0.0000</b>	<b>14.0288</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Paving - 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	5.7000e-004	4.6000e-004	6.0200e-003	2.0000e-005	1.8700e-003	1.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.5080	1.5080	4.0000e-005	4.0000e-005	1.5211
<b>Total</b>	<b>5.7000e-004</b>	<b>4.6000e-004</b>	<b>6.0200e-003</b>	<b>2.0000e-005</b>	<b>1.8700e-003</b>	<b>1.0000e-005</b>	<b>1.8800e-003</b>	<b>5.0000e-004</b>	<b>1.0000e-005</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>1.5080</b>	<b>1.5080</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.5211</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	8.3000e-003	0.0809	0.1037	1.6000e-004		4.1500e-003	4.1500e-003		3.8300e-003	3.8300e-003	0.0000	13.9195	13.9195	4.3700e-003	0.0000	14.0288
Paving	1.5600e-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>9.8600e-003</b>	<b>0.0809</b>	<b>0.1037</b>	<b>1.6000e-004</b>		<b>4.1500e-003</b>	<b>4.1500e-003</b>		<b>3.8300e-003</b>	<b>3.8300e-003</b>	<b>0.0000</b>	<b>13.9195</b>	<b>13.9195</b>	<b>4.3700e-003</b>	<b>0.0000</b>	<b>14.0288</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Paving - 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	5.7000e-004	4.6000e-004	6.0200e-003	2.0000e-005	1.4600e-003	1.0000e-005	1.4700e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.5080	1.5080	4.0000e-005	4.0000e-005	1.5211
<b>Total</b>	<b>5.7000e-004</b>	<b>4.6000e-004</b>	<b>6.0200e-003</b>	<b>2.0000e-005</b>	<b>1.4600e-003</b>	<b>1.0000e-005</b>	<b>1.4700e-003</b>	<b>4.0000e-004</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.5080</b>	<b>1.5080</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.5211</b>

**3.5 Paving - 2023**

**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	0.0129	0.1231	0.1707	2.7000e-004		6.1000e-003	6.1000e-003		5.6400e-003	5.6400e-003	0.0000	22.9300	22.9300	7.2000e-003	0.0000	23.1101
Paving	2.5700e-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>0.0154</b>	<b>0.1231</b>	<b>0.1707</b>	<b>2.7000e-004</b>		<b>6.1000e-003</b>	<b>6.1000e-003</b>		<b>5.6400e-003</b>	<b>5.6400e-003</b>	<b>0.0000</b>	<b>22.9300</b>	<b>22.9300</b>	<b>7.2000e-003</b>	<b>0.0000</b>	<b>23.1101</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Paving - 2023**

**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	8.7000e-004	6.7000e-004	9.1300e-003	3.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.2000e-004	2.0000e-005	8.3000e-004	0.0000	2.4039	2.4039	6.0000e-005	6.0000e-005	2.4239
<b>Total</b>	<b>8.7000e-004</b>	<b>6.7000e-004</b>	<b>9.1300e-003</b>	<b>3.0000e-005</b>	<b>3.0700e-003</b>	<b>2.0000e-005</b>	<b>3.0900e-003</b>	<b>8.2000e-004</b>	<b>2.0000e-005</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>2.4039</b>	<b>2.4039</b>	<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>2.4239</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	0.0129	0.1231	0.1707	2.7000e-004		6.1000e-003	6.1000e-003		5.6400e-003	5.6400e-003	0.0000	22.9300	22.9300	7.2000e-003	0.0000	23.1101
Paving	2.5700e-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>0.0154</b>	<b>0.1231</b>	<b>0.1707</b>	<b>2.7000e-004</b>		<b>6.1000e-003</b>	<b>6.1000e-003</b>		<b>5.6400e-003</b>	<b>5.6400e-003</b>	<b>0.0000</b>	<b>22.9300</b>	<b>22.9300</b>	<b>7.2000e-003</b>	<b>0.0000</b>	<b>23.1101</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Paving - 2023**

**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	8.7000e-004	6.7000e-004	9.1300e-003	3.0000e-005	2.4100e-003	2.0000e-005	2.4200e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.4039	2.4039	6.0000e-005	6.0000e-005	2.4239
<b>Total</b>	<b>8.7000e-004</b>	<b>6.7000e-004</b>	<b>9.1300e-003</b>	<b>3.0000e-005</b>	<b>2.4100e-003</b>	<b>2.0000e-005</b>	<b>2.4200e-003</b>	<b>6.5000e-004</b>	<b>2.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4039</b>	<b>2.4039</b>	<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>2.4239</b>

**3.6 Architectural Coating - 2023**

**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	0.1558					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7200e-003	0.0117	0.0163	3.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	2.2979	2.2979	1.4000e-004	0.0000	2.3014
<b>Total</b>	<b>0.1575</b>	<b>0.0117</b>	<b>0.0163</b>	<b>3.0000e-005</b>		<b>6.4000e-004</b>	<b>6.4000e-004</b>		<b>6.4000e-004</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>2.3014</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	3.0000e-004	4.1100e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.3900e-003	3.7000e-004	1.0000e-005	3.7000e-004	0.0000	1.0818	1.0818	3.0000e-005	3.0000e-005	1.0907
<b>Total</b>	<b>3.9000e-004</b>	<b>3.0000e-004</b>	<b>4.1100e-003</b>	<b>1.0000e-005</b>	<b>1.3800e-003</b>	<b>1.0000e-005</b>	<b>1.3900e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.0818</b>	<b>1.0818</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.0907</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	0.1558					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7200e-003	0.0117	0.0163	3.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	2.2979	2.2979	1.4000e-004	0.0000	2.3014
<b>Total</b>	<b>0.1575</b>	<b>0.0117</b>	<b>0.0163</b>	<b>3.0000e-005</b>		<b>6.4000e-004</b>	<b>6.4000e-004</b>		<b>6.4000e-004</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>2.3014</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	3.0000e-004	4.1100e-003	1.0000e-005	1.0800e-003	1.0000e-005	1.0900e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0818	1.0818	3.0000e-005	3.0000e-005	1.0907
<b>Total</b>	<b>3.9000e-004</b>	<b>3.0000e-004</b>	<b>4.1100e-003</b>	<b>1.0000e-005</b>	<b>1.0800e-003</b>	<b>1.0000e-005</b>	<b>1.0900e-003</b>	<b>2.9000e-004</b>	<b>1.0000e-005</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.0818</b>	<b>1.0818</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.0907</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	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	0.0921	0.1179	1.0043	2.2700e-003	0.2367	1.6400e-003	0.2384	0.0632	1.5300e-003	0.0647	0.0000	209.6475	209.6475	0.0132	9.1000e-003	212.6911
Unmitigated	0.0921	0.1179	1.0043	2.2700e-003	0.2367	1.6400e-003	0.2384	0.0632	1.5300e-003	0.0647	0.0000	209.6475	209.6475	0.0132	9.1000e-003	212.6911

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	94.92	38.08	95.69	384,859	384,859
General Office Building	100.08	22.71	7.19	244,045	244,045
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	195.00	60.79	102.88	628,904	628,904

**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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**



MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.544109	0.060768	0.184625	0.129879	0.023845	0.006339	0.011719	0.008584	0.000815	0.000515	0.024285	0.000743	0.003774
General Office Building	0.544109	0.060768	0.184625	0.129879	0.023845	0.006339	0.011719	0.008584	0.000815	0.000515	0.024285	0.000743	0.003774
Parking Lot	0.544109	0.060768	0.184625	0.129879	0.023845	0.006339	0.011719	0.008584	0.000815	0.000515	0.024285	0.000743	0.003774

**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	59.1033	59.1033	4.9900e-003	6.0000e-004	59.4082
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	59.1033	59.1033	4.9900e-003	6.0000e-004	59.4082
NaturalGas Mitigated	3.5300e-003	0.0321	0.0269	1.9000e-004		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003	0.0000	34.8969	34.8969	6.7000e-004	6.4000e-004	35.1042
NaturalGas Unmitigated	3.5300e-003	0.0321	0.0269	1.9000e-004		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003	0.0000	34.8969	34.8969	6.7000e-004	6.4000e-004	35.1042

MA21180 Burtex Wilson Yard Project - South Coast Air Basin, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - Natural Gas**

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	618699	3.3400e-003	0.0303	0.0255	1.8000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003	0.0000	33.0162	33.0162	6.3000e-004	6.1000e-004	33.2123
General Office Building	35243.3	1.9000e-004	1.7300e-003	1.4500e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8807	1.8807	4.0000e-005	3.0000e-005	1.8919
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.5300e-003</b>	<b>0.0321</b>	<b>0.0269</b>	<b>1.9000e-004</b>		<b>2.4300e-003</b>	<b>2.4300e-003</b>		<b>2.4300e-003</b>	<b>2.4300e-003</b>	<b>0.0000</b>	<b>34.8969</b>	<b>34.8969</b>	<b>6.7000e-004</b>	<b>6.4000e-004</b>	<b>35.1042</b>

MA21180 Burtex Wilson Yard Project - South Coast Air Basin, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	618699	3.3400e-003	0.0303	0.0255	1.8000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003	0.0000	33.0162	33.0162	6.3000e-004	6.1000e-004	33.2123
General Office Building	35243.3	1.9000e-004	1.7300e-003	1.4500e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8807	1.8807	4.0000e-005	3.0000e-005	1.8919
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.5300e-003</b>	<b>0.0321</b>	<b>0.0269</b>	<b>1.9000e-004</b>		<b>2.4300e-003</b>	<b>2.4300e-003</b>		<b>2.4300e-003</b>	<b>2.4300e-003</b>	<b>0.0000</b>	<b>34.8969</b>	<b>34.8969</b>	<b>6.7000e-004</b>	<b>6.4000e-004</b>	<b>35.1042</b>

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	189839	33.6671	2.8400e-003	3.4000e-004	33.8408
General Office Building	94427.3	16.7463	1.4100e-003	1.7000e-004	16.8326
Parking Lot	23940	4.2457	3.6000e-004	4.0000e-005	4.2676
Parking Lot	25060	4.4443	3.8000e-004	5.0000e-005	4.4672
<b>Total</b>		<b>59.1033</b>	<b>4.9900e-003</b>	<b>6.0000e-004</b>	<b>59.4082</b>

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	189839	33.6671	2.8400e-003	3.4000e-004	33.8408
General Office Building	94427.3	16.7463	1.4100e-003	1.7000e-004	16.8326
Parking Lot	23940	4.2457	3.6000e-004	4.0000e-005	4.2676
Parking Lot	25060	4.4443	3.8000e-004	5.0000e-005	4.4672
<b>Total</b>		<b>59.1033</b>	<b>4.9900e-003</b>	<b>6.0000e-004</b>	<b>59.4082</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

MA21180 Burtex Wilson Yard Project - South Coast Air Basin, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	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	0.1314	4.0000e-005	4.8400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.4200e-003	9.4200e-003	2.0000e-005	0.0000	0.0100
Unmitigated	0.1314	4.0000e-005	4.8400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.4200e-003	9.4200e-003	2.0000e-005	0.0000	0.0100

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0156					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1153					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.5000e-004	4.0000e-005	4.8400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.4200e-003	9.4200e-003	2.0000e-005	0.0000	0.0100
<b>Total</b>	<b>0.1314</b>	<b>4.0000e-005</b>	<b>4.8400e-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>9.4200e-003</b>	<b>9.4200e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0100</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0156					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1153					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.5000e-004	4.0000e-005	4.8400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.4200e-003	9.4200e-003	2.0000e-005	0.0000	0.0100
<b>Total</b>	<b>0.1314</b>	<b>4.0000e-005</b>	<b>4.8400e-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>9.4200e-003</b>	<b>9.4200e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0100</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	18.6303	0.2052	4.9800e-003	25.2440
Unmitigated	18.6303	0.2052	4.9800e-003	25.2440

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	4.42612 / 0	11.6251	0.1451	3.5100e-003	16.2983
General Office Building	1.8271 / 1.11984	7.0053	0.0601	1.4700e-003	8.9457
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>18.6304</b>	<b>0.2052</b>	<b>4.9800e-003</b>	<b>25.2440</b>



MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	4.42612 / 0	11.6251	0.1451	3.5100e-003	16.2983
General Office Building	1.8271 / 1.11984	7.0053	0.0601	1.4700e-003	8.9457
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>18.6304</b>	<b>0.2052</b>	<b>4.9800e-003</b>	<b>25.2440</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

MA21180 Burtec Wilson Yard Project - South Coast Air Basin, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.7576	0.3994	0.0000	16.7416
Unmitigated	6.7576	0.3994	0.0000	16.7416

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	23.73	4.8170	0.2847	0.0000	11.9339
General Office Building	9.56	1.9406	0.1147	0.0000	4.8077
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>6.7576</b>	<b>0.3994</b>	<b>0.0000</b>	<b>16.7416</b>

MA21180 Burttec Wilson Yard Project - South Coast Air Basin, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	23.73	4.8170	0.2847	0.0000	11.9339
General Office Building	9.56	1.9406	0.1147	0.0000	4.8077
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>6.7576</b>	<b>0.3994</b>	<b>0.0000</b>	<b>16.7416</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**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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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**11.0 Vegetation**

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**MA21180 Burttec Wilson Yard Project**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**South Coast Air Basin, Mitigation Report**

**Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**OFFROAD Equipment Mitigation**

**MA21180 Burttec Wilson Yard Project**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	2	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	3	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	9	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

**MA21180 Burttec Wilson Yard Project**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	1.72000E-003	1.17300E-002	1.63000E-002	3.00000E-005	6.40000E-004	6.40000E-004	0.00000E+000	2.29793E+000	2.29793E+000	1.40000E-004	0.00000E+000	2.30137E+000
Cement and Mortar Mixers	1.98000E-003	1.24300E-002	1.04100E-002	2.00000E-005	4.80000E-004	4.80000E-004	0.00000E+000	1.54668E+000	1.54668E+000	1.60000E-004	0.00000E+000	1.55070E+000
Cranes	3.75300E-002	4.21040E-001	1.90420E-001	5.80000E-004	1.74800E-002	1.60800E-002	0.00000E+000	5.10131E+001	5.10131E+001	1.65000E-002	0.00000E+000	5.14256E+001
Forklifts	3.91900E-002	3.63940E-001	3.98040E-001	5.30000E-004	2.41100E-002	2.21800E-002	0.00000E+000	4.63305E+001	4.63305E+001	1.49800E-002	0.00000E+000	4.67051E+001
Generator Sets	3.79500E-002	3.36750E-001	4.22730E-001	7.60000E-004	1.68900E-002	1.68900E-002	0.00000E+000	6.49989E+001	6.49989E+001	3.09000E-003	0.00000E+000	6.50761E+001
Graders	4.15000E-003	5.25800E-002	1.72200E-002	7.00000E-005	1.67000E-003	1.54000E-003	0.00000E+000	5.81758E+000	5.81758E+000	1.88000E-003	0.00000E+000	5.86462E+000
Pavers	4.45000E-003	4.42000E-002	6.48800E-002	1.10000E-004	2.09000E-003	1.92000E-003	0.00000E+000	9.29205E+000	9.29205E+000	3.01000E-003	0.00000E+000	9.36718E+000
Paving Equipment	5.86000E-003	5.58200E-002	8.61500E-002	1.40000E-004	2.72000E-003	2.50000E-003	0.00000E+000	1.20776E+001	1.20776E+001	3.91000E-003	0.00000E+000	1.21753E+001
Rollers	5.35000E-003	5.58200E-002	6.26200E-002	9.00000E-005	3.13000E-003	2.88000E-003	0.00000E+000	7.78009E+000	7.78009E+000	2.52000E-003	0.00000E+000	7.84300E+000
Rubber Tired Dozers	1.25600E-002	1.31900E-001	5.37300E-002	1.30000E-004	6.26000E-003	5.76000E-003	0.00000E+000	1.12541E+001	1.12541E+001	3.64000E-003	0.00000E+000	1.13451E+001
Tractors/Loaders/Backhoes	5.90100E-002	6.00220E-001	8.04170E-001	1.12000E-003	3.21900E-002	2.96100E-002	0.00000E+000	9.82141E+001	9.82141E+001	3.17600E-002	0.00000E+000	9.90082E+001
Welders	3.18200E-002	1.68230E-001	1.95020E-001	2.90000E-004	7.35000E-003	7.35000E-003	0.00000E+000	2.16454E+001	2.16454E+001	2.59000E-003	0.00000E+000	2.17101E+001

**MA21180 Burttec Wilson Yard Project**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	1.72000E-003	1.17300E-002	1.63000E-002	3.00000E-005	6.40000E-004	6.40000E-004	0.00000E+000	2.29793E+000	2.29793E+000	1.40000E-004	0.00000E+000	2.30136E+000
Cement and Mortar Mixers	1.98000E-003	1.24300E-002	1.04100E-002	2.00000E-005	4.80000E-004	4.80000E-004	0.00000E+000	1.54668E+000	1.54668E+000	1.60000E-004	0.00000E+000	1.55070E+000
Cranes	3.75300E-002	4.21040E-001	1.90420E-001	5.80000E-004	1.74800E-002	1.60800E-002	0.00000E+000	5.10130E+001	5.10130E+001	1.65000E-002	0.00000E+000	5.14255E+001
Forklifts	3.91900E-002	3.63940E-001	3.98040E-001	5.30000E-004	2.41100E-002	2.21800E-002	0.00000E+000	4.63305E+001	4.63305E+001	1.49800E-002	0.00000E+000	4.67051E+001
Generator Sets	3.79500E-002	3.36750E-001	4.22730E-001	7.60000E-004	1.68900E-002	1.68900E-002	0.00000E+000	6.49988E+001	6.49988E+001	3.09000E-003	0.00000E+000	6.50760E+001
Graders	4.15000E-003	5.25800E-002	1.72200E-002	7.00000E-005	1.67000E-003	1.54000E-003	0.00000E+000	5.81758E+000	5.81758E+000	1.88000E-003	0.00000E+000	5.86462E+000
Pavers	4.45000E-003	4.42000E-002	6.48800E-002	1.10000E-004	2.09000E-003	1.92000E-003	0.00000E+000	9.29204E+000	9.29204E+000	3.01000E-003	0.00000E+000	9.36717E+000
Paving Equipment	5.86000E-003	5.58200E-002	8.61500E-002	1.40000E-004	2.72000E-003	2.50000E-003	0.00000E+000	1.20776E+001	1.20776E+001	3.91000E-003	0.00000E+000	1.21752E+001
Rollers	5.35000E-003	5.58200E-002	6.26200E-002	9.00000E-005	3.13000E-003	2.88000E-003	0.00000E+000	7.78008E+000	7.78008E+000	2.52000E-003	0.00000E+000	7.84299E+000
Rubber Tired Dozers	1.25600E-002	1.31900E-001	5.37300E-002	1.30000E-004	6.26000E-003	5.76000E-003	0.00000E+000	1.12541E+001	1.12541E+001	3.64000E-003	0.00000E+000	1.13451E+001
Tractors/Loaders/Balckhoes	5.90100E-002	6.00220E-001	8.04170E-001	1.12000E-003	3.21900E-002	2.96100E-002	0.00000E+000	9.82140E+001	9.82140E+001	3.17600E-002	0.00000E+000	9.90081E+001
Welders	3.18200E-002	1.68230E-001	1.95020E-001	2.90000E-004	7.35000E-003	7.35000E-003	0.00000E+000	2.16454E+001	2.16454E+001	2.59000E-003	0.00000E+000	2.17101E+001



### MA21180 Burttec Wilson Yard Project

#### EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	4.34524E-006
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17617E-006	1.17617E-006	0.00000E+000	0.00000E+000	1.16674E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.07920E-006	1.07920E-006	0.00000E+000	0.00000E+000	1.28466E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23079E-006	1.23079E-006	0.00000E+000	0.00000E+000	1.22933E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.07619E-006	1.07619E-006	0.00000E+000	0.00000E+000	1.06756E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.27979E-007	8.27979E-007	0.00000E+000	0.00000E+000	1.64268E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.28533E-006	1.28533E-006	0.00000E+000	0.00000E+000	1.27502E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.77713E-006	1.77713E-006	0.00000E+000	0.00000E+000	8.81438E-007
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.12000E-006	1.12000E-006	0.00000E+000	0.00000E+000	1.11102E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.23985E-007	9.23985E-007	0.00000E+000	0.00000E+000	9.21229E-007

#### Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		

**MA21180 Burttec Wilson Yard Project**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Yes	Water Exposed Area	PM10 Reduction	61.00	PM2.5 Reduction	61.00	Frequency (per day)	3.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	25.00		
Yes	Clean Paved Road	% PM Reduction	25.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.22	0.22
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.11	0.03	0.09	0.02	0.21	0.19
Grading	Fugitive Dust	0.06	0.03	0.02	0.01	0.61	0.61
Grading	Roads	0.00	0.00	0.00	0.00	0.22	0.21
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.22	0.20
Site Preparation	Fugitive Dust	0.03	0.02	0.01	0.01	0.61	0.61
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.22	0.14

**Operational Percent Reduction Summary**

**MA21180 Burttec Wilson Yard Project**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Mobile Mitigation**

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.11	0.34		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

**MA21180 Burttec Wilson Yard Project**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00

**MA21180 Burtec Wilson Yard Project**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

No	Commute	Provide Ride Sharing Program				
	Commute	Commute Subtotal		0.00		
No	School Trip	Implement School Bus Program		0.00		
		Total VMT Reduction		0.00		

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	50.00
No	Use Low VOC Paint (Residential Exterior)	50.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		

**MA21180 Burttec Wilson Yard Project**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

**Solid Waste Mitigation**

**MA21180 Burtec Wilson Yard Project**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	