Appendix C Air Quality Modeling and Reports

Appendix C1: Air Quality and GHG Modeling Data

Appendix C2: Health Risk Assessment

Appendices

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1. Criteria Air Pollutant and GHG Emissions Worksheets

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Regional Construction Emissions Worksheet - Unmitigated

*CalEEMod, Version 2016.3.2

Offsite Asphalt Demolition

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						
	Off-Road	1.3616	13.8938	6.6529	0.0124	0.7053	0.6503
	Total	**1.3616**	**13.8938**	**6.6529**	**0.0124**	**0.7053**	**0.6503**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0182	0.6332	0.1234	1.63E-03	0.0389	0.0133
	Worker	0.1637	0.1051	1.3492	3.41E-03	0.3113	0.0845
	Total	**0.1819**	**0.7383**	**1.4726**	**5.04E-03**	**0.3502**	**0.0978**
TOTAL		***1.54***	***14.63***	***8.13***	***0.02***	***1.06***	***0.75***
Onsite	**2020 Winter**						
	Off-Road	1.3616	13.8938	6.6529	0.0124	0.7053	0.6503
	Total	**1.3616**	**13.8938**	**6.6529**	**0.0124**	**0.7053**	**0.6503**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0192	0.628	0.143	1.56E-03	0.0389	0.0133
	Worker	0.1638	0.1106	1.1089	3.05E-03	0.3113	0.0845
	Total	**0.183**	**0.7386**	**1.2519**	**4.61E-03**	**0.3502**	**0.0978**
TOTAL		***1.54***	***14.63***	***7.90***	***0.02***	***1.06***	***0.73***
Onsite	**2020**						
	Off-Road	1.36	13.89	6.65	0.01	0.71	0.65
	Total	**1.36**	**13.89**	**6.65**	**0.01**	**0.71**	**0.65**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.63	0.14	0.00	0.04	0.01
	Worker	0.16	0.11	1.35	0.00	0.31	0.08
	Total	**0.18**	**0.74**	**1.47**	**0.01**	**0.35**	**0.10**
TOTAL		***1.54***	***14.63***	***8.13***	***0.02***	***1.06***	***0.75***

Offsite Demolition Debris Onsite Reprocessing

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						
	Off-Road	1.2563	8.0433	4.8197	0.0224	0.2817	0.2817
	Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**	**0.2817**	**0.2817**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0164	0.0105	0.1349	3.40E-04	0.0311	8.45E-03
	Total	**0.0164**	**0.0105**	**0.1349**	**3.40E-04**	**0.0311**	**8.45E-03**
TOTAL		***1.27***	***8.05***	***4.95***	***0.02***	***0.31***	***0.29***
Onsite	**2020 Winter**						
	Off-Road	1.2563	8.0433	4.8197	0.0224	0.2817	0.2817
	Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**	**0.2817**	**0.2817**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0164	0.0111	0.1109	3.10E-04	0.0311	8.45E-03
	Total	**0.0164**	**0.0111**	**0.1109**	**3.10E-04**	**0.0311**	**8.45E-03**
TOTAL		***1.27***	***8.05***	***4.93***	***0.02***	***0.31***	***0.29***

Onsite	**2020**						
	Off-Road	1.26	8.04	4.82	0.02	0.28	0.28
	Total	**1.26**	**8.04**	**4.82**	**0.02**	**0.28**	**0.28**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.13	0.00	0.03	0.01
	Total	**0.02**	**0.01**	**0.13**	**0.00**	**0.03**	**0.01**
TOTAL		***1.27***	***8.05***	***4.95***	***0.02***	***0.31***	***0.29***
Offsite Asphalt Demo & Debris Processing		**2.82**	**22.69**	**13.08**	**0.04**	**1.37**	**1.04**

Phase 2 Building Demolition

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						
	Off-Road	1.2741	13.3787	9.0385	0.036	0.4561	0.4196
	Total	**1.2741**	**13.3787**	**9.0385**	**0.036**	**0.4561**	**0.4196**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0243	0.8442	0.1645	2.17E-03	0.0518	0.0177
	Worker	0.0655	0.042	0.5397	1.36E-03	0.1245	0.0338
	Total	**0.0898**	**0.8863**	**0.7042**	**3.53E-03**	**0.1764**	**0.0515**
TOTAL		***1.36***	***14.27***	***9.74***	***0.04***	***0.63***	***0.47***
Onsite	**2020 Winter**						
	Off-Road	1.2741	13.3787	9.0385	0.036	0.4561	0.4196
	Total	**1.2741**	**13.3787**	**9.0385**	**0.036**	**0.4561**	**0.4196**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0256	0.8374	0.1907	2.09E-03	0.0519	0.0177
	Worker	0.0655	0.0442	0.4436	1.22E-03	0.1245	0.0338
	Total	**0.0911**	**0.8816**	**0.6342**	**3.31E-03**	**0.1764**	**0.0515**
TOTAL		***1.37***	***14.26***	***9.67***	***0.04***	***0.63***	***0.45***
Onsite	**2020**						
	Off-Road	1.27	13.38	9.04	0.04	0.46	0.42
	Total	**1.27**	**13.38**	**9.04**	**0.04**	**0.46**	**0.42**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.03	0.84	0.19	0.00	0.05	0.02
	Worker	0.07	0.04	0.54	0.00	0.12	0.03
	Total	**0.09**	**0.89**	**0.70**	**0.00**	**0.18**	**0.05**
TOTAL		***1.37***	***14.27***	***9.74***	***0.04***	***0.63***	***0.47***

Phase 1 Building Demolition

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						
	Off-Road	1.2741	13.3787	9.0385	0.036	0.4561	0.4196
	Total	**1.2741**	**13.3787**	**9.0385**	**0.036**	**0.4561**	**0.4196**
Offsite							
	Hauling	0	0	0	0.00E+00	0	0
	Vendor	0.0243	0.8442	0.1645	2.17E-03	0.0518	1.77E-02
	Worker	0.1092	0.0701	0.8995	2.27E-03	0.2075	0.0563
	Total	**0.1335**	**0.9143**	**1.064**	**4.44E-03**	**0.2594**	**0.074**
TOTAL		***1.41***	***14.29***	***10.10***	***0.04***	***0.72***	***0.49***
Onsite	**2020 Winter**						

	Off-Road	1.2741	13.3787	9.0385	0.036	0.4561	0.4196
	Total	**1.2741**	**13.3787**	**9.0385**	**0.036**	**0.4561**	**0.4196**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0256	0.8374	0.1907	2.09E-03	0.0519	0.0177
	Worker	0.1092	0.0737	0.7393	2.04E-03	0.2075	0.0563
	Total	**0.1348**	**0.9111**	**0.9299**	**4.13E-03**	**0.2594**	**0.0741**
TOTAL		***1.41***	***14.29***	***9.97***	***0.04***	***0.72***	***0.48***
Onsite	**2020**						
	Off-Road	1.27	13.38	9.04	0.04	0.46	0.42
	Total	**1.27**	**13.38**	**9.04**	**0.04**	**0.46**	**0.42**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.03	0.84	0.19	0.00	0.05	0.02
	Worker	0.11	0.07	0.90	0.00	0.21	0.06
	Total	**0.13**	**0.91**	**1.06**	**0.00**	**0.26**	**0.07**
TOTAL		***1.41***	***14.29***	***10.10***	***0.04***	***0.72***	***0.49***
Offsite Asphalt Demo & Debris Processing, P1 Building Demolition, & P2 Building Demolition		**5.59**	**51.24**	**32.93**	**0.12**	**2.72**	**2.00**
Offsite Asphalt Demo & Debris Processing, & P1 Building Demolition		**4.23**	**36.98**	**23.18**	**0.08**	**2.08**	**1.53**
Phase 1 Bldg Demolition Debris Haul							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						
	Fugitive Dust					0.2562	0.0388
	Off-Road	0.3084	3.1607	2.2149	9.77E-03	0.1041	0.0958
	Total	**0.3084**	**3.1607**	**2.2149**	**9.77E-03**	**0.3603**	**0.1346**
Offsite							
	Hauling	0.02	0.8249	0.1142	2.39E-03	0.0478	0.0146
	Vendor	0	0	0	0	0	0
	Worker	0.0328	0.021	0.2698	6.80E-04	0.0623	0.0169
	Total	**0.0527**	**0.8459**	**0.3841**	**3.07E-03**	**0.1101**	**0.0315**
TOTAL		***0.36***	***4.01***	***2.60***	***0.01***	***0.47***	***0.17***
Onsite	**2020 Winter**						
	Fugitive Dust					0.2562	0.0388
	Off-Road	0.3084	3.1607	2.2149	9.77E-03	0.1041	0.0958
	Total	**0.3084**	**3.1607**	**2.2149**	**9.77E-03**	**0.3603**	**0.1346**
Offsite							
	Hauling	0.0211	0.8227	0.1354	2.30E-03	0.0478	0.0147
	Vendor	0	0	0	0	0	0
	Worker	0.0328	0.0221	0.2218	6.10E-04	0.0623	0.0169
	Total	**0.0539**	**0.8448**	**0.3571**	**2.91E-03**	**0.1101**	**0.0316**
TOTAL		***0.36***	***4.01***	***2.57***	***0.01***	***0.47***	***0.15***
Onsite	**2020**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.26	0.04
	Off-Road	0.31	3.16	2.21	0.01	0.10	0.10
	Total	**0.31**	**3.16**	**2.21**	**0.01**	**0.36**	**0.13**
Offsite							
	Hauling	0.02	0.82	0.14	0.00	0.05	0.01
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.03	0.02	0.27	0.00	0.06	0.02

	Total	**0.05**	**0.85**	**0.38**	**0.00**	**0.11**	**0.03**
TOTAL		***0.36***	***4.01***	***2.60***	***0.01***	***0.47***	***0.17***

Phase 1 Bldg Demolition Debris Onsite Reprocessing

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						
	Off-Road	1.2563	8.0433	4.8197	0.0224	0.2817	0.2817
	Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**	**0.2817**	**0.2817**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0164	0.0105	0.1349	3.40E-04	0.0311	8.45E-03
	Total	**0.0164**	**0.0105**	**0.1349**	**3.40E-04**	**0.0311**	**8.45E-03**
TOTAL		***1.27***	***8.05***	***4.95***	***0.02***	***0.31***	***0.29***
Onsite	**2020 Winter**						
	Off-Road	1.2563	8.0433	4.8197	0.0224	0.2817	0.2817
	Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**	**0.2817**	**0.2817**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0164	0.0111	0.1109	3.10E-04	0.0311	8.45E-03
	Total	**0.0164**	**0.0111**	**0.1109**	**3.10E-04**	**0.0311**	**8.45E-03**
TOTAL		***1.27***	***8.05***	***4.93***	***0.02***	***0.31***	***0.29***
Onsite	**2020**						
	Off-Road	1.26	8.04	4.82	0.02	0.28	0.28
	Total	**1.26**	**8.04**	**4.82**	**0.02**	**0.28**	**0.28**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.13	0.00	0.03	0.01
	Total	**0.02**	**0.01**	**0.13**	**0.00**	**0.03**	**0.01**
TOTAL		***1.27***	***8.05***	***4.95***	***0.02***	***0.31***	***0.29***

Phase 1 Asphalt Demolition

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						
	Off-Road	1.2741	13.3787	9.0385	0.036	0.4561	0.4196
	Total	**1.2741**	**13.3787**	**9.0385**	**0.036**	**0.4561**	**0.4196**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0304	1.0553	0.2057	2.71E-03	0.0648	0.0221
	Worker	0.1092	0.0701	0.8995	2.27E-03	0.2075	0.0563
	Total	**0.1395**	**1.1254**	**1.1051**	**4.98E-03**	**0.2723**	**0.0784**
TOTAL		***1.41***	***14.50***	***10.14***	***0.04***	***0.73***	***0.50***
Onsite	**2020 Winter**						
	Off-Road	1.2741	13.3787	9.0385	0.036	0.4561	0.4196
	Total	**1.2741**	**13.3787**	**9.0385**	**0.036**	**0.4561**	**0.4196**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.032	1.0467	0.2384	2.61E-03	0.0649	0.0221
	Worker	0.1092	0.0737	0.7393	2.04E-03	0.2075	0.0563
	Total	**0.1412**	**1.1205**	**0.9776**	**4.65E-03**	**0.2724**	**0.0785**
TOTAL		***1.42***	***14.50***	***10.02***	***0.04***	***0.73***	***0.48***

Onsite	**2020**						
	Off-Road	1.27	13.38	9.04	0.04	0.46	0.42
	Total	**1.27**	**13.38**	**9.04**	**0.04**	**0.46**	**0.42**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.03	1.06	0.24	0.00	0.06	0.02
	Worker	0.11	0.07	0.90	0.00	0.21	0.06
	Total	**0.14**	**1.13**	**1.11**	**0.00**	**0.27**	**0.08**
TOTAL		***1.42***	***14.50***	***10.14***	***0.04***	***0.73***	***0.50***

Phase 2 Building Demolition Debris Haul

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						
	Fugitive Dust					0.2562	0.0388
	Off-Road	0.6168	6.3214	4.4298	0.0195	0.2083	0.1916
	Total	**0.6168**	**6.3214**	**4.4298**	**0.0195**	**0.4644**	**0.2304**
Offsite							
	Hauling	0.02	0.8249	0.1142	2.39E-03	0.0478	0.0146
	Vendor	0	0	0	0	0	0
	Worker	0.0273	0.0175	0.2249	5.70E-04	0.0519	0.0141
	Total	**0.0473**	**0.8424**	**0.3391**	**2.96E-03**	**0.0997**	**0.0287**
TOTAL		***0.66***	***7.16***	***4.77***	***0.02***	***0.56***	***0.26***
Onsite	**2020 Winter**						
	Fugitive Dust					0.2562	0.0388
	Off-Road	0.6168	6.3214	4.4298	0.0195	0.2083	0.1916
	Total	**0.6168**	**6.3214**	**4.4298**	**0.0195**	**0.4644**	**0.2304**
Offsite							
	Hauling	0.0211	0.8227	0.1354	2.30E-03	0.0478	0.0147
	Vendor	0	0	0	0	0	0
	Worker	0.0273	0.0184	0.1848	5.10E-04	0.0519	0.0141
	Total	**0.0484**	**0.8411**	**0.3202**	**2.81E-03**	**0.0997**	**0.0288**
TOTAL		***0.67***	***7.16***	***4.75***	***0.02***	***0.56***	***0.24***
Onsite	**2020**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.26	0.04
	Off-Road	0.62	6.32	4.43	0.02	0.21	0.19
	Total	**0.62**	**6.32**	**4.43**	**0.02**	**0.46**	**0.23**
Offsite							
	Hauling	0.02	0.82	0.14	0.00	0.05	0.01
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.03	0.02	0.22	0.00	0.05	0.01
	Total	**0.05**	**0.84**	**0.34**	**0.00**	**0.10**	**0.03**
TOTAL		***0.67***	***7.16***	***4.77***	***0.02***	***0.56***	***0.26***

Phase 2 Building Demolition Debris Onsite Reprocessing

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						
	Off-Road	1.2563	8.0433	4.8197	0.0224	0.2817	0.2817
	Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**	**0.2817**	**0.2817**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0655	0.042	0.5397	1.36E-03	0.1245	0.0338
	Total	**0.0655**	**0.042**	**0.5397**	**1.36E-03**	**0.1245**	**0.0338**
TOTAL		***1.32***	***8.09***	***5.36***	***0.02***	***0.41***	***0.32***

Onsite		**2020 Winter**					
	Off-Road	1.2563	8.0433	4.8197	0.0224	0.2817	0.2817
	Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**	**0.2817**	**0.2817**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0655	0.0442	0.4436	1.22E-03	0.1245	0.0338
	Total	**0.0655**	**0.0442**	**0.4436**	**1.22E-03**	**0.1245**	**0.0338**
TOTAL		***1.32***	***8.09***	***5.26***	***0.02***	***0.41***	***0.32***
Onsite		**2020**					
	Off-Road	1.26	8.04	4.82	0.02	0.28	0.28
	Total	**1.26**	**8.04**	**4.82**	**0.02**	**0.28**	**0.28**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.07	0.04	0.54	0.00	0.12	0.03
	Total	**0.07**	**0.04**	**0.54**	**0.00**	**0.12**	**0.03**
TOTAL		***1.32***	***8.09***	***5.36***	***0.02***	***0.41***	***0.32***

Phase 2 Asphalt Demolition

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2020 Summer**						
	Off-Road		1.2741	13.3787	9.0385	0.036	0.4561	0.4196
	Total		**1.2741**	**13.3787**	**9.0385**	**0.036**	**0.4561**	**0.4196**
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.0425	1.4774	0.2879	3.80E-03	0.0907	0.0309
	Worker		0.1092	0.0701	0.8995	2.27E-03	0.2075	0.0563
	Total		**0.1517**	**1.5475**	**1.1874**	**6.07E-03**	**0.2983**	**0.0873**
TOTAL			***1.43***	***14.93***	***10.23***	***0.04***	***0.75***	***0.51***
Onsite		**2020 Winter**						
	Off-Road		1.2741	13.3787	9.0385	0.036	0.4561	0.4196
	Total		**1.2741**	**13.3787**	**9.0385**	**0.036**	**0.4561**	**0.4196**
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.0448	1.4654	0.3337	3.65E-03	0.0908	0.031
	Worker		0.1092	0.0737	0.7393	2.04E-03	0.2075	0.0563
	Total		**0.154**	**1.5391**	**1.073**	**5.69E-03**	**0.2983**	**0.0873**
TOTAL			***1.43***	***14.92***	***10.11***	***0.04***	***0.75***	***0.48***
Onsite		**2020**						
	Off-Road		1.27	13.38	9.04	0.04	0.46	0.42
	Total		**1.27**	**13.38**	**9.04**	**0.04**	**0.46**	**0.42**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.04	1.48	0.33	0.00	0.09	0.03
	Worker		0.11	0.07	0.90	0.00	0.21	0.06
	Total		**0.15**	**1.55**	**1.19**	**0.01**	**0.30**	**0.09**
TOTAL			***1.43***	***14.93***	***10.23***	***0.04***	***0.75***	***0.51***

Offsite Asphalt Demo & Debris Processing, P1 Building Demo Debris Haul, P1 Building Demo Debris Processing, P1 Asphalt Demo, P2 Building Demo Dbris haul, P1 Building Demo Debris Processing, P2 Asphalt Demo	**9.28**	**79.43**	**51.13**	**0.21**	**4.60**	**3.07**

Offsite Asphalt Demo & Debris Processing, P1 Asphalt Demo, & P2 Asphalt Demo		**5.66**	**52.12**	**33.45**	**0.12**	**2.85**	**2.04**
P1 Asphalt Demo, & P2 Asphalt Demo		**2.84**	**29.43**	**20.37**	**0.08**	**1.48**	**1.00**
Phase 1 Asphalt Demolition Debris Onsite Reprocessing							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						
Off-Road		1.2563	8.0433	4.8197	0.0224	0.2817	0.2817
Total		**1.2563**	**8.0433**	**4.8197**	**0.0224**	**0.2817**	**0.2817**
Offsite							
Hauling		0	0	0	0	0	0
Vendor		0	0	0	0	0	0
Worker		0.0164	0.0105	0.1349	3.40E-04	0.0311	8.45E-03
Total		**0.0164**	**0.0105**	**0.1349**	**3.40E-04**	**0.0311**	**8.45E-03**
TOTAL		***1.27***	***8.05***	***4.95***	***0.02***	***0.31***	***0.29***
Onsite	**2020 Winter**						
Off-Road		1.2563	8.0433	4.8197	0.0224	0.2817	0.2817
Total		**1.2563**	**8.0433**	**4.8197**	**0.0224**	**0.2817**	**0.2817**
Offsite							
Hauling		0	0	0	0	0	0
Vendor		0	0	0	0	0	0
Worker		0.0164	0.0111	0.1109	3.10E-04	0.0311	8.45E-03
Total		**0.0164**	**0.0111**	**0.1109**	**3.10E-04**	**0.0311**	**8.45E-03**
TOTAL		***1.27***	***8.05***	***4.93***	***0.02***	***0.31***	***0.29***
Onsite	**2020**						
Off-Road		1.26	8.04	4.82	0.02	0.28	0.28
Total		**1.26**	**8.04**	**4.82**	**0.02**	**0.28**	**0.28**
Offsite							
Hauling		0.00	0.00	0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00	0.00	0.00
Worker		0.02	0.01	0.13	0.00	0.03	0.01
Total		**0.02**	**0.01**	**0.13**	**0.00**	**0.03**	**0.01**
TOTAL		***1.27***	***8.05***	***4.95***	***0.02***	***0.31***	***0.29***
P1 Asphalt Demo & P1 Asphalt Demo Debris Processing		**2.69**	**22.56**	**15.10**	**0.06**	**1.04**	**0.79**
Phase 1 Asphalt Demolition Debris Haul							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						
Fugitive Dust						0.6434	0.0974
Off-Road		0	0	0	0	0	0
Total		**0**	**0**	**0**	**0**	**0.6434**	**0.0974**
Offsite							
Hauling		0.1724	5.9738	1.0764	0.0253	0.6544	0.1992
Vendor		0	0	0	0	0	0
Worker		0.0328	0.021	0.2698	6.80E-04	0.0623	0.0169
Total		**0.2051**	**5.9948**	**1.3462**	**0.0259**	**0.7167**	**0.2161**
TOTAL		***0.21***	***5.99***	***1.35***	***0.03***	***1.36***	***0.31***
Onsite	**2020 Winter**						
Fugitive Dust						0.6434	0.0974
Off-Road		0	0	0	0	0	0
Total		**0**	**0**	**0**	**0**	**0.6434**	**0.0974**

Offsite							
	Hauling	0.1744	6.1766	1.1104	0.0251	0.6545	0.1993
	Vendor	0	0	0	0	0	0
	Worker	0.0328	0.0221	0.2218	6.10E-04	0.0623	0.0169
	Total	**0.2072**	**6.1987**	**1.3322**	**0.0257**	**0.7168**	**0.2162**
TOTAL		***0.21***	***6.20***	***1.33***	***0.03***	***1.36***	***0.11***
Onsite	**2020**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.64	0.10
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.64**	**0.10**
Offsite							
	Hauling	0.17	6.18	1.11	0.03	0.65	0.20
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.03	0.02	0.27	0.00	0.06	0.02
	Total	**0.21**	**6.20**	**1.35**	**0.03**	**0.72**	**0.22**
TOTAL		***0.21***	***6.20***	***1.35***	***0.03***	***1.36***	***0.31***
P1 Asphalt Demo, P1 Asphalt Demo Debris Processing, & P1 Asphalt Demo Debris Haul		**2.90**	**28.76**	**16.44**	**0.09**	**2.40**	**1.10**

Phase 2 Asphalt Demolition Debris Haul

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						
	Fugitive Dust					0.6404	0.097
	Off-Road	0.6168	6.3214	4.4298	0.0195	0.2083	0.1916
	Total	**0.6168**	**6.3214**	**4.4298**	**0.0195**	**0.8486**	**0.2886**
Offsite							
	Hauling	0.0741	2.773	0.4467	0.01	0.2383	0.0727
	Vendor	0	0	0	0	0	0
	Worker	0.0655	0.042	0.5397	1.36E-03	0.1245	0.0338
	Total	**0.1396**	**2.815**	**0.9864**	**0.0114**	**0.3628**	**0.1065**
TOTAL		***0.76***	***9.14***	***5.42***	***0.03***	***1.21***	***0.40***
Onsite	**2020 Winter**						
	Fugitive Dust					0.6404	0.097
	Off-Road	0.6168	6.3214	4.4298	0.0195	0.2083	0.1916
	Total	**0.6168**	**6.3214**	**4.4298**	**0.0195**	**0.8486**	**0.2886**
Offsite							
	Hauling	0.0764	2.8206	0.4878	9.87E-03	0.2384	0.0727
	Vendor	0	0	0	0	0	0
	Worker	0.0655	0.0442	0.4436	1.22E-03	0.1245	0.0338
	Total	**0.1419**	**2.8649**	**0.9313**	**0.0111**	**0.3629**	**0.1066**
TOTAL		***0.76***	***9.19***	***5.36***	***0.03***	***1.21***	***0.32***
Onsite	**2020**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.64	0.10
	Off-Road	0.62	6.32	4.43	0.02	0.21	0.19
	Total	**0.62**	**6.32**	**4.43**	**0.02**	**0.85**	**0.29**
Offsite							
	Hauling	0.08	2.82	0.49	0.01	0.24	0.07
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.07	0.04	0.54	0.00	0.12	0.03
	Total	**0.14**	**2.86**	**0.99**	**0.01**	**0.36**	**0.11**
TOTAL		***0.76***	***9.19***	***5.42***	***0.03***	***1.21***	***0.40***

Phase 2 Asphalt Demolition Debris Onsite Reprocessing

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total

Onsite		**2020 Summer**					
	Off-Road	1.2563	8.0433	4.8197	0.0224	0.2817	0.2817
	Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**	**0.2817**	**0.2817**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0164	0.0105	0.1349	3.40E-04	0.0311	8.45E-03
	Total	**0.0164**	**0.0105**	**0.1349**	**3.40E-04**	**0.0311**	**8.45E-03**
TOTAL		***1.27***	***8.05***	***4.95***	***0.02***	***0.31***	***0.29***
Onsite		**2020 Winter**					
	Off-Road	1.2563	8.0433	4.8197	0.0224	0.2817	0.2817
	Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**	**0.2817**	**0.2817**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0164	0.0111	0.1109	3.10E-04	0.0311	8.45E-03
	Total	**0.0164**	**0.0111**	**0.1109**	**3.10E-04**	**0.0311**	**8.45E-03**
TOTAL		***1.27***	***8.05***	***4.93***	***0.02***	***0.31***	***0.29***
Onsite		**2020**					
	Off-Road	1.26	8.04	4.82	0.02	0.28	0.28
	Total	**1.26**	**8.04**	**4.82**	**0.02**	**0.28**	**0.28**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.13	0.00	0.03	0.01
	Total	**0.02**	**0.01**	**0.13**	**0.00**	**0.03**	**0.01**
TOTAL		***1.27***	***8.05***	***4.95***	***0.02***	***0.31***	***0.29***
P1 Asphalt Demo, P1 Asphalt Demo Debris Processing, P1 Asphalt Demo Debris Haul, P2 Asphalt Demo Debris Haul, & P2 Asphalt Demo Debris Processing		**4.93**	**46.00**	**26.82**	**0.14**	**3.93**	**1.79**
P1 Asphalt Demo, P1 Asphalt Demo Debris Processing, P1 Asphalt Demo Debris Haul, & P2 Asphalt Demo Debris Processing		**4.17**	**36.81**	**21.40**	**0.11**	**2.71**	**1.39**

Phase 1 Rough Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2020 Summer**					
	Fugitive Dust					8.5491	3.1974
	Off-Road	7.8946	93.0209	48.1678	0.1069	3.6934	3.3979
	Total	**7.8946**	**93.0209**	**48.1678**	**0.1069**	**12.2425**	**6.5953**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0425	1.4774	0.2879	3.80E-03	0.0907	0.0309
	Worker	0.1965	0.1261	1.619	4.09E-03	0.3736	0.1014
	Total	**0.239**	**1.6035**	**1.907**	**7.89E-03**	**0.4643**	**0.1323**
TOTAL		***8.13***	***94.62***	***50.07***	***0.11***	***12.71***	***6.73***
Onsite		**2020 Winter**					
	Fugitive Dust					8.5491	3.1974
	Off-Road	7.8946	93.0209	48.1678	0.1069	3.6934	3.3979
	Total	**7.8946**	**93.0209**	**48.1678**	**0.1069**	**12.2425**	**6.5953**
Offsite							
	Hauling	0	0	0	0	0	0

	Vendor	0.0448	1.4654	0.3337	3.65E-03	0.0908	0.031
	Worker	0.1966	0.1327	1.3306	3.66E-03	0.3736	0.1014
	Total	**0.2414**	**1.5981**	**1.6644**	**7.31E-03**	**0.4644**	**0.1324**
TOTAL		***8.14***	***94.62***	***49.83***	***0.11***	***12.71***	***6.70***
Onsite	**2020**						
	Fugitive Dust	0.00	0.00	0.00	0.00	8.55	3.20
	Off-Road	7.89	93.02	48.17	0.11	3.69	3.40
	Total	**7.89**	**93.02**	**48.17**	**0.11**	**12.24**	**6.60**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.04	1.48	0.33	0.00	0.09	0.03
	Worker	0.20	0.13	1.62	0.00	0.37	0.10
	Total	**0.24**	**1.60**	**1.91**	**0.01**	**0.46**	**0.13**
TOTAL		***8.14***	***94.62***	***50.07***	***0.11***	***12.71***	***6.73***
Onsite	**2021 Summer**						
	Fugitive Dust					8.5491	3.1974
	Off-Road	7.4685	86.1223	45.7719	0.1069	3.4122	3.1392
	Total	**7.4685**	**86.1223**	**45.7719**	**0.1069**	**11.9613**	**6.3366**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0362	1.3501	0.2541	3.78E-03	0.0862	0.0266
	Worker	0.1829	0.1131	1.4903	3.96E-03	0.3735	0.1014
	Total	**0.2191**	**1.4632**	**1.7444**	**7.74E-03**	**0.4597**	**0.128**
TOTAL		***7.69***	***87.59***	***47.52***	***0.11***	***12.42***	***6.46***
Onsite	**2021 Winter**						
	Fugitive Dust					8.5491	3.1974
	Off-Road	7.4685	86.1223	45.7719	0.1069	3.4122	3.1392
	Total	**7.4685**	**86.1223**	**45.7719**	**0.1069**	**11.9613**	**6.3366**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0384	1.3358	0.2972	3.63E-03	0.0863	0.0267
	Worker	0.1833	0.1189	1.2224	3.55E-03	0.3735	0.1014
	Total	**0.2218**	**1.4547**	**1.5196**	**7.18E-03**	**0.4598**	**0.128**
TOTAL		***7.69***	***87.58***	***47.29***	***0.11***	***12.42***	***6.44***
Onsite	**2021**						
	Fugitive Dust	0.00	0.00	0.00	0.00	8.55	3.20
	Off-Road	7.47	86.12	45.77	0.11	3.41	3.14
	Total	**7.47**	**86.12**	**45.77**	**0.11**	**11.96**	**6.34**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.04	1.35	0.30	0.00	0.09	0.03
	Worker	0.18	0.12	1.49	0.00	0.37	0.10
	Total	**0.22**	**1.46**	**1.74**	**0.01**	**0.46**	**0.13**
TOTAL		***7.69***	***87.59***	***47.52***	***0.11***	***12.42***	***6.46***

Phase 1 Rough Grading Soil Haul

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						
	Fugitive Dust					0.039	5.90E-03
	Off-Road	0.3084	3.1607	2.2149	9.77E-03	0.1041	0.0958
	Total	**0.3084**	**3.1607**	**2.2149**	**9.77E-03**	**0.1431**	**0.1017**
Offsite							
	Hauling	0.4813	20.6811	2.6917	0.0543	1.2264	0.3617

	Vendor	0	0	0	0	0	0
	Worker	0.0164	0.0105	0.1349	3.40E-04	0.0311	8.45E-03
	Total	**0.4977**	**20.6917**	**2.8266**	**0.0547**	**1.2576**	**0.3702**
TOTAL		***0.81***	***23.85***	***5.04***	***0.06***	***1.40***	***0.47***
Onsite	**2020 Winter**						
	Fugitive Dust					0.039	5.90E-03
	Off-Road	0.3084	3.1607	2.2149	9.77E-03	0.1041	0.0958
	Total	**0.3084**	**3.1607**	**2.2149**	**9.77E-03**	**0.1431**	**0.1017**
Offsite							
	Hauling	0.5138	20.4747	3.3033	0.052	1.2276	0.3628
	Vendor	0	0	0	0	0	0
	Worker	0.0164	0.0111	0.1109	3.10E-04	0.0311	8.45E-03
	Total	**0.5302**	**20.4858**	**3.4142**	**0.0523**	**1.2587**	**0.3713**
TOTAL		***0.84***	***23.65***	***5.63***	***0.06***	***1.40***	***0.11***
Onsite	**2020**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.04	0.01
	Off-Road	0.31	3.16	2.21	0.01	0.10	0.10
	Total	**0.31**	**3.16**	**2.21**	**0.01**	**0.14**	**0.10**
Offsite							
	Hauling	0.51	20.68	3.30	0.05	1.23	0.36
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.13	0.00	0.03	0.01
	Total	**0.53**	**20.69**	**3.41**	**0.05**	**1.26**	**0.37**
TOTAL		***0.84***	***23.85***	***5.63***	***0.06***	***1.40***	***0.47***
P1 Rough Grading & P1 Rough Grading Haul		**8.97**	**118.48**	**55.70**	**0.18**	**14.11**	**7.20**
Onsite	**2021 Summer**						
	Fugitive Dust					0.039	5.90E-03
	Off-Road	0.2874	2.6776	2.1871	9.76E-03	0.0896	0.0825
	Total	**0.2874**	**2.6776**	**2.1871**	**9.76E-03**	**0.1286**	**0.0884**
Offsite							
	Hauling	0.4582	19.4191	2.591	0.0538	2.9726	0.7864
	Vendor	0	0	0	0	0	0
	Worker	0.0152	9.42E-03	0.1242	3.30E-04	0.0311	8.45E-03
	Total	**0.4734**	**19.4285**	**2.7152**	**0.0542**	**3.0037**	**0.7948**
TOTAL		***0.76***	***22.11***	***4.90***	***0.06***	***3.13***	***0.88***
Onsite	**2021 Winter**						
	Fugitive Dust					0.039	5.90E-03
	Off-Road	0.2874	2.6776	2.1871	9.76E-03	0.0896	0.0825
	Total	**0.2874**	**2.6776**	**2.1871**	**9.76E-03**	**0.1286**	**0.0884**
Offsite							
	Hauling	0.4892	19.2002	3.1763	0.0515	2.9736	0.7874
	Vendor	0	0	0	0	0	0
	Worker	0.0153	9.91E-03	0.1019	3.00E-04	0.0311	8.45E-03
	Total	**0.5045**	**19.2101**	**3.2782**	**0.0518**	**3.0048**	**0.7958**
TOTAL		***0.79***	***21.89***	***5.47***	***0.06***	***3.13***	***0.10***
Onsite	**2021**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.04	0.01
	Off-Road	0.29	2.68	2.19	0.01	0.09	0.08
	Total	**0.29**	**2.68**	**2.19**	**0.01**	**0.13**	**0.09**
Offsite							
	Hauling	0.49	19.42	3.18	0.05	2.97	0.79

	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.12	0.00	0.03	0.01
	Total	**0.50**	**19.43**	**3.28**	**0.05**	**3.00**	**0.79**
TOTAL		***0.79***	***22.11***	***5.47***	***0.06***	***3.13***	***0.88***
P1 Rough Grading & P1 Rough Grading Haul		**8.48**	**109.69**	**52.98**	**0.18**	**15.55**	**7.35**

Offsite Utility Trenching

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2021 Summer**						
	Off-Road		1.2876	12.4011	11.4398	0.0211	0.6037	0.5707
	Total		**1.2876**	**12.4011**	**11.4398**	**0.0211**	**0.6037**	**0.5707**
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.0155	0.5786	0.1089	1.62E-03	0.037	0.0114
	Worker		0.1524	0.0942	1.242	3.30E-03	0.3112	0.0845
	Total		**0.168**	**0.6728**	**1.3508**	**4.92E-03**	**0.3482**	**0.0959**
TOTAL			***1.46***	***13.07***	***12.79***	***0.03***	***0.95***	***0.67***
Onsite		**2021 Winter**						
	Off-Road		1.2876	12.4011	11.4398	0.0211	0.6037	0.5707
	Total		**1.2876**	**12.4011**	**11.4398**	**0.0211**	**0.6037**	**0.5707**
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.0165	0.5725	0.1274	1.56E-03	0.037	0.0114
	Worker		0.1528	0.0991	1.0187	2.96E-03	0.3112	0.0845
	Total		**0.1692**	**0.6716**	**1.146**	**4.52E-03**	**0.3482**	**0.0959**
TOTAL			***1.46***	***13.07***	***12.59***	***0.03***	***0.95***	***0.67***
Onsite		**2021**						
	Off-Road		1.29	12.40	11.44	0.02	0.60	0.57
	Total		**1.29**	**12.40**	**11.44**	**0.02**	**0.60**	**0.57**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.02	0.58	0.13	0.00	0.04	0.01
	Worker		0.15	0.10	1.24	0.00	0.31	0.08
	Total		**0.17**	**0.67**	**1.35**	**0.00**	**0.35**	**0.10**
TOTAL			***1.46***	***13.07***	***12.79***	***0.03***	***0.95***	***0.67***
P1 Rough Grading, P1 Rough Grading Haul, & Offsite Trenching			**9.94**	**122.77**	**65.77**	**0.20**	**16.51**	**8.01**

Phase 1 Utility Trenching

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2021 Summer**						
	Off-Road		1.3831	14.2849	10.1015	0.0371	0.5265	0.4844
	Total		**1.3831**	**14.2849**	**10.1015**	**0.0371**	**0.5265**	**0.4844**
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.0259	0.9644	0.1815	2.70E-03	0.0616	0.019
	Worker		0.1626	0.1005	1.3248	3.52E-03	0.332	0.0901
	Total		**0.1885**	**1.0649**	**1.5062**	**6.22E-03**	**0.3936**	**0.1091**
TOTAL			***1.57***	***15.35***	***11.61***	***0.04***	***0.92***	***0.59***
Onsite		**2021 Winter**						
	Off-Road		1.3831	14.2849	10.1015	0.0371	0.5265	0.4844
	Total		**1.3831**	**14.2849**	**10.1015**	**0.0371**	**0.5265**	**0.4844**

Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0275	0.9541	0.2123	2.59E-03	0.0616	0.0191
	Worker	0.163	0.1057	1.0866	3.15E-03	0.332	0.0901
	Total	**0.1904**	**1.0598**	**1.2989**	**5.74E-03**	**0.3936**	**0.1092**
TOTAL		***1.57***	***15.34***	***11.40***	***0.04***	***0.92***	***0.59***
Onsite	**2021**						
	Off-Road	1.38	14.28	10.10	0.04	0.53	0.48
	Total	**1.38**	**14.28**	**10.10**	**0.04**	**0.53**	**0.48**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.03	0.96	0.21	0.00	0.06	0.02
	Worker	0.16	0.11	1.32	0.00	0.33	0.09
	Total	**0.19**	**1.06**	**1.51**	**0.01**	**0.39**	**0.11**
TOTAL		***1.57***	***15.35***	***11.61***	***0.04***	***0.92***	***0.59***

Phase 1 Building Construction

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2021**	**Summer**						
	Off-Road		1.3723	14.089	9.458	0.0237	0.7267	0.6685
	Total		**1.3723**	**14.089**	**9.458**	**0.0237**	**0.7267**	**0.6685**
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.0311	1.1573	0.2178	3.24E-03	0.0739	0.0228
	Worker		0.3049	0.1884	2.4839	6.59E-03	0.6225	0.1689
	Total		**0.3359**	**1.3457**	**2.7017**	**9.83E-03**	**0.6964**	**0.1918**
TOTAL			***1.71***	***15.43***	***12.16***	***0.03***	***1.42***	***0.86***
Onsite	**2021**	**Winter**						
	Off-Road		1.3723	14.089	9.458	0.0237	0.7267	0.6685
	Total		**1.3723**	**14.089**	**9.458**	**0.0237**	**0.7267**	**0.6685**
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.0329	1.1449	0.2547	3.11E-03	0.074	0.0229
	Worker		0.3055	0.1982	2.0374	5.91E-03	0.6225	0.1689
	Total		**0.3385**	**1.3431**	**2.2921**	**9.02E-03**	**0.6964**	**0.1918**
TOTAL			***1.71***	***15.43***	***11.75***	***0.03***	***1.42***	***0.86***
Onsite	**2021**							
	Off-Road		1.37	14.09	9.46	0.02	0.73	0.67
	Total		**1.37**	**14.09**	**9.46**	**0.02**	**0.73**	**0.67**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.03	1.16	0.25	0.00	0.07	0.02
	Worker		0.31	0.20	2.48	0.01	0.62	0.17
	Total		**0.34**	**1.35**	**2.70**	**0.01**	**0.70**	**0.19**
TOTAL			***1.71***	***15.43***	***12.16***	***0.03***	***1.42***	***0.86***
P1 Rough Grading Haul, Offsite Trenching, P1 Trenching, & P1 Building Construction			**5.53**	**65.96**	**42.02**	**0.17**	**6.43**	**3.00**
Offsite Trenching, P1 Trenching, & P1 Building Construction			**4.74**	**43.86**	**36.56**	**0.10**	**3.30**	**2.12**
Offsite Trenching & P1 Building Construction			**3.17**	**28.51**	**24.95**	**0.06**	**2.38**	**1.53**

Phase 1 Fine Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2021 Summer**						
Fugitive Dust						0.9067	0.0979
Off-Road		1.9467	23.9536	8.3256	0.0267	0.862	0.7931
Total		**1.9467**	**23.9536**	**8.3256**	**0.0267**	**1.7688**	**0.891**
Offsite							
Hauling		0	0	0	0	0	0
Vendor		0.0207	0.7715	0.1452	2.16E-03	0.0493	0.0152
Worker		0.1829	0.1131	1.4903	3.96E-03	0.3735	0.1014
Total		**0.2036**	**0.8846**	**1.6355**	**6.12E-03**	**0.4228**	**0.1166**
TOTAL		***2.15***	***24.84***	***9.96***	***0.03***	***2.19***	***1.01***
Onsite	**2021 Winter**						
Fugitive Dust						0.9067	0.0979
Off-Road		1.9467	23.9536	8.3256	0.0267	0.862	0.7931
Total		**1.9467**	**23.9536**	**8.3256**	**0.0267**	**1.7688**	**0.891**
Offsite							
Hauling		0	0	0	0	0	0
Vendor		0.022	0.7633	0.1698	2.07E-03	0.0493	0.0153
Worker		0.1833	0.1189	1.2224	3.55E-03	0.3735	0.1014
Total		**0.2053**	**0.8822**	**1.3922**	**5.62E-03**	**0.4228**	**0.1166**
TOTAL		***2.15***	***24.84***	***9.72***	***0.03***	***2.19***	***0.99***
Onsite	**2021**						
Fugitive Dust		0.00	0.00	0.00	0.00	0.91	0.10
Off-Road		1.95	23.95	8.33	0.03	0.86	0.79
Total		**1.95**	**23.95**	**8.33**	**0.03**	**1.77**	**0.89**
Offsite							
Hauling		0.00	0.00	0.00	0.00	0.00	0.00
Vendor		0.02	0.77	0.17	0.00	0.05	0.02
Worker		0.18	0.12	1.49	0.00	0.37	0.10
Total		**0.21**	**0.88**	**1.64**	**0.01**	**0.42**	**0.12**
TOTAL		***2.15***	***24.84***	***9.96***	***0.03***	***2.19***	***1.01***
Offsite Trenching, P1 Building Construction, & P1 Fine Grading		**5.32**	**53.35**	**34.91**	**0.09**	**4.57**	**2.53**

Phase 1 Finishing/Landscaping

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2021 Summer**						
Off-Road		0.6771	7.0827	6.5087	0.0143	0.3135	0.2884
Total		**0.6771**	**7.0827**	**6.5087**	**0.0143**	**0.3135**	**0.2884**
Offsite							
Hauling		0	0	0	0	0	0
Vendor		0.0155	0.5786	0.1089	1.62E-03	0.037	0.0114
Worker		0.1016	0.0628	0.828	2.20E-03	0.2075	0.0563
Total		**0.1172**	**0.6414**	**0.9369**	**3.82E-03**	**0.2445**	**0.0677**
TOTAL		***0.79***	***7.72***	***7.45***	***0.02***	***0.56***	***0.36***
Onsite	**2021 Winter**						
Off-Road		0.6771	7.0827	6.5087	0.0143	0.3135	0.2884
Total		**0.6771**	**7.0827**	**6.5087**	**0.0143**	**0.3135**	**0.2884**
Offsite							
Hauling		0	0	0	0	0	0
Vendor		0.0165	0.5725	0.1274	1.56E-03	0.037	0.0114
Worker		0.1018	0.0661	0.6791	1.97E-03	0.2075	0.0563
Total		**0.1183**	**0.6385**	**0.8065**	**3.53E-03**	**0.2445**	**0.0678**
TOTAL		***0.80***	***7.72***	***7.32***	***0.02***	***0.56***	***0.36***

Onsite	**2021**						
	Off-Road	0.68	7.08	6.51	0.01	0.31	0.29
	Total	**0.68**	**7.08**	**6.51**	**0.01**	**0.31**	**0.29**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.58	0.13	0.00	0.04	0.01
	Worker	0.10	0.07	0.83	0.00	0.21	0.06
	Total	**0.12**	**0.64**	**0.94**	**0.00**	**0.24**	**0.07**
TOTAL		***0.80***	***7.72***	***7.45***	***0.02***	***0.56***	***0.36***

Offsite Trenching, P1 Building Construction, & P1 Finishing/Landscaping	**3.96**	**36.23**	**32.40**	**0.08**	**2.93**	**1.88**

Offsite Fine Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2021 Summer**						
	Fugitive Dust					0	0
	Off-Road	0.9374	7.4341	8.6085	0.0141	0.4278	0.4189
	Total	**0.9374**	**7.4341**	**8.6085**	**0.0141**	**0.4278**	**0.4189**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0155	0.5786	0.1089	1.62E-03	0.037	0.0114
	Worker	0.1524	0.0942	1.242	3.30E-03	0.3112	0.0845
	Total	**0.168**	**0.6728**	**1.3508**	**4.92E-03**	**0.3482**	**0.0959**
TOTAL		***1.11***	***8.11***	***9.96***	***0.02***	***0.78***	***0.51***
Onsite	**2021 Winter**						
	Fugitive Dust					0	0
	Off-Road	0.9374	7.4341	8.6085	0.0141	0.4278	0.4189
	Total	**0.9374**	**7.4341**	**8.6085**	**0.0141**	**0.4278**	**0.4189**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0165	0.5725	0.1274	1.56E-03	0.037	0.0114
	Worker	0.1528	0.0991	1.0187	2.96E-03	0.3112	0.0845
	Total	**0.1692**	**0.6716**	**1.146**	**4.52E-03**	**0.3482**	**0.0959**
TOTAL		***1.11***	***8.11***	***9.75***	***0.02***	***0.78***	***0.50***
Onsite	**2021**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.94	7.43	8.61	0.01	0.43	0.42
	Total	**0.94**	**7.43**	**8.61**	**0.01**	**0.43**	**0.42**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.58	0.13	0.00	0.04	0.01
	Worker	0.15	0.10	1.24	0.00	0.31	0.08
	Total	**0.17**	**0.67**	**1.35**	**0.00**	**0.35**	**0.10**
TOTAL		***1.11***	***8.11***	***9.96***	***0.02***	***0.78***	***0.51***

Phase 1 Asphalt Paving

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2021 Summer**						
	Off-Road	1.1648	13.6396	8.7004	0.0183	0.5675	0.5221
	Paving	7.3819				0	0
	Total	**8.5466**	**13.6396**	**8.7004**	**0.0183**	**0.5675**	**0.5221**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.3105	11.5725	2.1776	0.0324	0.7391	0.2282
	Worker	0.1016	0.0628	0.828	2.20E-03	0.2075	0.0563
	Total	**0.4122**	**11.6353**	**3.0055**	**0.0346**	**0.9466**	**0.2845**
TOTAL		***8.96***	***25.27***	***11.71***	***0.05***	***1.51***	***0.81***
Onsite	**2021 Winter**						
	Off-Road	1.1648	13.6396	8.7004	0.0183	0.5675	0.5221
	Paving	7.3819				0	0
	Total	**8.5466**	**13.6396**	**8.7004**	**0.0183**	**0.5675**	**0.5221**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.3294	11.4493	2.5472	0.0311	0.7397	0.2287
	Worker	0.1018	0.0661	0.6791	1.97E-03	0.2075	0.0563
	Total	**0.4312**	**11.5154**	**3.2263**	**0.0331**	**0.9472**	**0.285**
TOTAL		***8.98***	***25.16***	***11.93***	***0.05***	***1.51***	***0.81***
Onsite	**2021**						
	Off-Road	1.16	13.64	8.70	0.02	0.57	0.52
	Paving	7.38	0.00	0.00	0.00	0.00	0.00
	Total	**8.55**	**13.64**	**8.70**	**0.02**	**0.57**	**0.52**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.33	11.57	2.55	0.03	0.74	0.23
	Worker	0.10	0.07	0.83	0.00	0.21	0.06
	Total	**0.43**	**11.64**	**3.23**	**0.03**	**0.95**	**0.29**
TOTAL		***8.98***	***25.27***	***11.93***	***0.05***	***1.51***	***0.81***
Offsite Trenching, P1 Building Construction, P1 Finishing/Landscaping, Offsite Fine Grade, & P1 Asphalt Pave		**14.05**	**69.61**	**54.28**	**0.15**	**5.22**	**3.21**
P1 Building Construction, P1 Finishing/Landscaping, Offsite Fine Grade, & P1 Asphalt Pave		**12.59**	**56.54**	**41.49**	**0.12**	**4.27**	**2.54**
P1 Building Construction, P1 Finishing/Landscaping, & Offsite Fine Grade		**3.61**	**31.27**	**29.56**	**0.07**	**2.76**	**1.73**

Phase 1 Architectural Coating

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2021 Summer**						
	Archit. Coating	299.8089				0	0
	Off-Road	0.2189	1.5268	1.8176	2.97E-03	0.0941	0.0941
	Total	**300.0278**	**1.5268**	**1.8176**	**2.97E-03**	**0.0941**	**0.0941**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.061	0.0377	0.4968	1.32E-03	0.1245	0.0338
	Total	**0.061**	**0.0377**	**0.4968**	**1.32E-03**	**0.1245**	**0.0338**
TOTAL		***300.09***	***1.56***	***2.31***	***0.00***	***0.22***	***0.13***

Onsite	**2021 Winter**						
	Archit. Coating	299.8089				0	0
	Off-Road	0.2189	1.5268	1.8176	2.97E-03	0.0941	0.0941
	Total	**300.0278**	**1.5268**	**1.8176**	**2.97E-03**	**0.0941**	**0.0941**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0611	0.0396	0.4075	1.18E-03	0.1245	0.0338
	Total	**0.0611**	**0.0396**	**0.4075**	**1.18E-03**	**0.1245**	**0.0338**
TOTAL		***300.09***	***1.57***	***2.23***	***0.00***	***0.22***	***0.13***
Onsite	**2021**						
	Archit. Coating	299.81	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.22	1.53	1.82	0.00	0.09	0.09
	Total	**300.03**	**1.53**	**1.82**	**0.00**	**0.09**	**0.09**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.06	0.04	0.50	0.00	0.12	0.03
	Total	**0.06**	**0.04**	**0.50**	**0.00**	**0.12**	**0.03**
TOTAL		***300.09***	***1.57***	***2.31***	***0.00***	***0.22***	***0.13***
P1 Building Construction, P1 Finishing/Landscaping, Offsite Fine Grade, P1 Coating		**303.70**	**32.83**	**31.88**	**0.07**	**2.98**	**1.86**
P1 Building Construction, Offsite Fine Grade, P1 Coating		**302.91**	**25.11**	**24.43**	**0.06**	**2.42**	**1.50**
Offsite Asphalt Paving							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2021 Summer**						
	Off-Road	0.6298	6.1569	6.6106	0.01	0.3454	0.3189
	Paving	1.5744				0	0
	Total	**2.2042**	**6.1569**	**6.6106**	**0.01**	**0.3454**	**0.3189**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0311	1.1573	0.2178	3.24E-03	0.0739	0.0228
	Worker	0.1524	0.0942	1.242	3.30E-03	0.3112	0.0845
	Total	**0.1835**	**1.2515**	**1.4597**	**6.54E-03**	**0.3852**	**0.1073**
TOTAL		***2.39***	***7.41***	***8.07***	***0.02***	***0.73***	***0.43***
Onsite	**2021 Winter**						
	Off-Road	0.6298	6.1569	6.6106	0.01	0.3454	0.3189
	Paving	1.5744				0	0
	Total	**2.2042**	**6.1569**	**6.6106**	**0.01**	**0.3454**	**0.3189**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0329	1.1449	0.2547	3.11E-03	0.074	0.0229
	Worker	0.1528	0.0991	1.0187	2.96E-03	0.3112	0.0845
	Total	**0.1857**	**1.244**	**1.2734**	**6.07E-03**	**0.3852**	**0.1073**
TOTAL		***2.39***	***7.40***	***7.88***	***0.02***	***0.73***	***0.43***
Onsite	**2021**						
	Off-Road	0.63	6.16	6.61	0.01	0.35	0.32
	Paving	1.57	0.00	0.00	0.00	0.00	0.00
	Total	**2.20**	**6.16**	**6.61**	**0.01**	**0.35**	**0.32**

Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.03	1.16	0.25	0.00	0.07	0.02
	Worker	0.15	0.10	1.24	0.00	0.31	0.08
	Total	**0.19**	**1.25**	**1.46**	**0.01**	**0.39**	**0.11**
TOTAL		***2.39***	***7.41***	***8.07***	***0.02***	***0.73***	***0.43***

Offsite Finishing/Landscaping

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2021 Summer**						
	Off-Road		0.6771	7.0827	6.5087	0.0143	0.3135	0.2884
	Total		**0.6771**	**7.0827**	**6.5087**	**0.0143**	**0.3135**	**0.2884**
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0	0	0	0	0	0
	Worker		0.1524	0.0942	1.242	3.30E-03	0.3112	0.0845
	Total		**0.1524**	**0.0942**	**1.242**	**3.30E-03**	**0.3112**	**0.0845**
TOTAL			***0.83***	***7.18***	***7.75***	***0.02***	***0.62***	***0.37***
Onsite		**2021 Winter**						
	Off-Road		0.6771	7.0827	6.5087	0.0143	0.3135	0.2884
	Total		**0.6771**	**7.0827**	**6.5087**	**0.0143**	**0.3135**	**0.2884**
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0	0	0	0	0	0
	Worker		0.1528	0.0991	1.0187	2.96E-03	0.3112	0.0845
	Total		**0.1528**	**0.0991**	**1.0187**	**2.96E-03**	**0.3112**	**0.0845**
TOTAL			***0.83***	***7.18***	***7.53***	***0.02***	***0.62***	***0.37***
Onsite		**2021**						
	Off-Road		0.68	7.08	6.51	0.01	0.31	0.29
	Total		**0.68**	**7.08**	**6.51**	**0.01**	**0.31**	**0.29**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.15	0.10	1.24	0.00	0.31	0.08
	Total		**0.15**	**0.10**	**1.24**	**0.00**	**0.31**	**0.08**
TOTAL			***0.83***	***7.18***	***7.75***	***0.02***	***0.62***	***0.37***
P1 Building Construction, P1 Coating, Offsite Paving, & Offsite Finishing/Landscaping			**305.02**	**31.59**	**30.30**	**0.07**	**3.00**	**1.79**
P1 Building Construction, Offsite Paving, & Offsite Finishing/Landscaping			**4.93**	**30.02**	**27.98**	**0.07**	**2.78**	**1.66**
P1 Building Construction & Offsite Finishing/Landscaping			**2.54**	**22.62**	**19.91**	**0.05**	**2.05**	**1.23**
Onsite		**2022 Summer**						
	Off-Road		0.6043	5.9747	6.4425	0.0143	0.2609	0.24
	Total		**0.6043**	**5.9747**	**6.4425**	**0.0143**	**0.2609**	**0.24**
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0	0	0	0	0	0
	Worker		0.1424	0.0847	1.1409	3.18E-03	0.3112	0.0844
	Total		**0.1424**	**0.0847**	**1.1409**	**3.18E-03**	**0.3112**	**0.0844**
TOTAL			***0.75***	***6.06***	***7.58***	***0.02***	***0.57***	***0.32***

Onsite		**2022 Winter**					
	Off-Road	0.6043	5.9747	6.4425	0.0143	0.2609	0.24
	Total	**0.6043**	**5.9747**	**6.4425**	**0.0143**	**0.2609**	**0.24**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.143	0.0891	0.9343	2.85E-03	0.3112	0.0844
	Total	**0.143**	**0.0891**	**0.9343**	**2.85E-03**	**0.3112**	**0.0844**
TOTAL		***0.75***	***6.06***	***7.38***	***0.02***	***0.57***	***0.32***
Onsite		**2022**					
	Off-Road	0.60	5.97	6.44	0.01	0.26	0.24
	Total	**0.60**	**5.97**	**6.44**	**0.01**	**0.26**	**0.24**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.14	0.09	1.14	0.00	0.31	0.08
	Total	**0.14**	**0.09**	**1.14**	**0.00**	**0.31**	**0.08**
TOTAL		***0.75***	***6.06***	***7.58***	***0.02***	***0.57***	***0.32***

Phase 2 Rough Grading

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022 Summer**						
	Fugitive Dust						8.5491	3.1974
	Off-Road		6.4967	72.1659	41.9462	0.107	2.8456	2.6179
	Total		**6.4967**	**72.1659**	**41.9462**	**0.107**	**11.3947**	**5.8153**
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.0338	1.2805	0.2349	3.75E-03	0.0859	0.0263
	Worker		0.1708	0.1017	1.3691	3.81E-03	0.3734	0.1013
	Total		**0.2046**	**1.3821**	**1.604**	**7.56E-03**	**0.4593**	**0.1276**
TOTAL			***6.70***	***73.55***	***43.55***	***0.11***	***11.85***	***5.94***
Onsite		**2022 Winter**						
	Fugitive Dust						8.5491	3.1974
	Off-Road		6.4967	72.1659	41.9462	0.107	2.8456	2.6179
	Total		**6.4967**	**72.1659**	**41.9462**	**0.107**	**11.3947**	**5.8153**
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.0359	1.2654	0.2759	3.60E-03	0.0859	0.0263
	Worker		0.1716	0.1069	1.1211	3.42E-03	0.3734	0.1013
	Total		**0.2075**	**1.3723**	**1.397**	**7.02E-03**	**0.4593**	**0.1276**
TOTAL			***6.70***	***73.54***	***43.34***	***0.11***	***11.85***	***5.92***
Onsite		**2022**						
	Fugitive Dust		0.00	0.00	0.00	0.00	8.55	3.20
	Off-Road		6.50	72.17	41.95	0.11	2.85	2.62
	Total		**6.50**	**72.17**	**41.95**	**0.11**	**11.39**	**5.82**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.04	1.28	0.28	0.00	0.09	0.03
	Worker		0.17	0.11	1.37	0.00	0.37	0.10
	Total		**0.21**	**1.38**	**1.60**	**0.01**	**0.46**	**0.13**
TOTAL			***6.70***	***73.55***	***43.55***	***0.11***	***11.85***	***5.94***

Phase 2 Rough Grading Soil Haul

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total

Onsite		**2022 Summer**					
	Fugitive Dust					0.0382	5.78E-03
	Off-Road	0.2572	2.0908	2.1338	9.76E-03	0.0702	0.0646
	Total	**0.2572**	**2.0908**	**2.1338**	**9.76E-03**	**0.1084**	**0.0704**
Offsite							
	Hauling	0.4234	17.7392	2.447	0.0521	0.9523	0.2845
	Vendor	0	0	0	0	0	0
	Worker	0.0142	8.47E-03	0.1141	3.20E-04	0.0311	8.44E-03
	Total	**0.4376**	**17.7477**	**2.5611**	**0.0524**	**0.9834**	**0.2929**
TOTAL		***0.69***	***19.84***	***4.69***	***0.06***	***1.09***	***0.36***
Onsite		**2022 Winter**					
	Fugitive Dust					0.0382	5.78E-03
	Off-Road	0.2572	2.0908	2.1338	9.76E-03	0.0702	0.0646
	Total	**0.2572**	**2.0908**	**2.1338**	**9.76E-03**	**0.1084**	**0.0704**
Offsite							
	Hauling	0.4525	17.5093	2.994	0.0498	0.9532	0.2854
	Vendor	0	0	0	0	0	0
	Worker	0.0143	8.91E-03	0.0934	2.80E-04	0.0311	8.44E-03
	Total	**0.4668**	**17.5183**	**3.0874**	**0.0501**	**0.9843**	**0.2938**
TOTAL		***0.72***	***19.61***	***5.22***	***0.06***	***1.09***	***0.08***
Onsite		**2022**					
	Fugitive Dust	0.00	0.00	0.00	0.00	0.04	0.01
	Off-Road	0.26	2.09	2.13	0.01	0.07	0.06
	Total	**0.26**	**2.09**	**2.13**	**0.01**	**0.11**	**0.07**
Offsite							
	Hauling	0.45	17.74	2.99	0.05	0.95	0.29
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.01	0.01	0.11	0.00	0.03	0.01
	Total	**0.47**	**17.75**	**3.09**	**0.05**	**0.98**	**0.29**
TOTAL		***0.72***	***19.84***	***5.22***	***0.06***	***1.09***	***0.36***
Offsite Finishing/Landscaping, P2 Rough Grading, & P2 Rough Grading Haul		**8.18**	**99.45**	**56.35**	**0.19**	**13.52**	**6.63**
Offsite Finishing/Landscaping & P2 Rough Grading Haul		**1.47**	**25.90**	**12.80**	**0.08**	**1.66**	**0.69**
Phase 2 Utility Trenching							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022 Summer**					
	Off-Road	1.2337	11.6192	9.9028	0.0371	0.428	0.3938
	Total	**1.2337**	**11.6192**	**9.9028**	**0.0371**	**0.428**	**0.3938**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0241	0.9146	0.1678	2.68E-03	0.0613	0.0188
	Worker	0.1518	0.0904	1.217	3.39E-03	0.3319	0.09
	Total	**0.176**	**1.005**	**1.3848**	**6.07E-03**	**0.3933**	**0.1088**
TOTAL		***1.41***	***12.62***	***11.29***	***0.04***	***0.82***	***0.50***
Onsite		**2022 Winter**					
	Off-Road	1.2337	11.6192	9.9028	0.0371	0.428	0.3938
	Total	**1.2337**	**11.6192**	**9.9028**	**0.0371**	**0.428**	**0.3938**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0256	0.9039	0.1971	2.57E-03	0.0614	0.0188
	Worker	0.1526	0.095	0.9965	3.04E-03	0.3319	0.09

	Total	0.1782	0.9989	1.1936	5.61E-03	0.3933	0.1088
TOTAL		***1.41***	***12.62***	***11.10***	***0.04***	***0.82***	***0.50***
Onsite	**2022**						
	Off-Road	1.23	11.62	9.90	0.04	0.43	0.39
	Total	**1.23**	**11.62**	**9.90**	**0.04**	**0.43**	**0.39**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.03	0.91	0.20	0.00	0.06	0.02
	Worker	0.15	0.10	1.22	0.00	0.33	0.09
	Total	**0.18**	**1.01**	**1.38**	**0.01**	**0.39**	**0.11**
TOTAL		***1.41***	***12.62***	***11.29***	***0.04***	***0.82***	***0.50***

Phase 2 Building Construction

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**						
	Off-Road	1.7844	17.7854	12.8535	0.028	0.9547	0.8783
	Total	**1.7844**	**17.7854**	**12.8535**	**0.028**	**0.9547**	**0.8783**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	4.82E-03	0.1829	0.0336	5.40E-04	0.0123	3.75E-03
	Worker	0.2847	0.1694	2.2818	6.35E-03	0.6224	0.1688
	Total	**0.2895**	**0.3524**	**2.3154**	**6.89E-03**	**0.6346**	**0.1726**
TOTAL		***2.07***	***18.14***	***15.17***	***0.03***	***1.59***	***1.05***
Onsite	**2022 Winter**						
	Off-Road	1.7844	17.7854	12.8535	0.028	0.9547	0.8783
	Total	**1.7844**	**17.7854**	**12.8535**	**0.028**	**0.9547**	**0.8783**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	5.12E-03	0.1808	0.0394	5.10E-04	0.0123	3.76E-03
	Worker	0.2861	0.1781	1.8685	5.70E-03	0.6224	0.1688
	Total	**0.2912**	**0.3589**	**1.9079**	**6.21E-03**	**0.6346**	**0.1726**
TOTAL		***2.08***	***18.14***	***14.76***	***0.03***	***1.59***	***1.05***
Onsite	**2022**						
	Off-Road	1.78	17.79	12.85	0.03	0.95	0.88
	Total	**1.78**	**17.79**	**12.85**	**0.03**	**0.95**	**0.88**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.18	0.04	0.00	0.01	0.00
	Worker	0.29	0.18	2.28	0.01	0.62	0.17
	Total	**0.29**	**0.36**	**2.32**	**0.01**	**0.63**	**0.17**
TOTAL		***2.08***	***18.14***	***15.17***	***0.03***	***1.59***	***1.05***

Offsite Finishing/Landscaping, P2 Rough Grading Haul, P2 Utility Trenching, & P2 Building Construction	**4.96**	**56.67**	**39.26**	**0.16**	**4.08**	**2.24**
Offsite Finishing/Landscaping, P2 Utility Trenching, & P2 Building Construction	**4.23**	**36.83**	**34.04**	**0.10**	**2.98**	**1.88**
P2 Utility Trenching, & P2 Building Construction	**3.49**	**30.77**	**26.46**	**0.08**	**2.41**	**1.55**

Phase 2 Fine Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**						
	Fugitive Dust					0.9067	0.0979

	Off-Road	1.75	20.8377	7.9233	0.0267	0.7507	0.6907
	Total	**1.75**	**20.8377**	**7.9233**	**0.0267**	**1.6574**	**0.7886**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0193	0.7317	0.1342	2.14E-03	0.0491	0.015
	Worker	0.1708	0.1017	1.3691	3.81E-03	0.3734	0.1013
	Total	**0.1901**	**0.8334**	**1.5033**	**5.95E-03**	**0.4225**	**0.1163**
TOTAL		***1.94***	***21.67***	***9.43***	***0.03***	***2.08***	***0.90***
Onsite	**2022 Winter**						
	Fugitive Dust					0.9067	0.0979
	Off-Road	1.75	20.8377	7.9233	0.0267	0.7507	0.6907
	Total	**1.75**	**20.8377**	**7.9233**	**0.0267**	**1.6574**	**0.7886**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0205	0.7231	0.1576	2.06E-03	0.0491	0.015
	Worker	0.1716	0.1069	1.1211	3.42E-03	0.3734	0.1013
	Total	**0.1921**	**0.83**	**1.2788**	**5.48E-03**	**0.4225**	**0.1163**
TOTAL		***1.94***	***21.67***	***9.20***	***0.03***	***2.08***	***0.89***
Onsite	**2022**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.91	0.10
	Off-Road	1.75	20.84	7.92	0.03	0.75	0.69
	Total	**1.75**	**20.84**	**7.92**	**0.03**	**1.66**	**0.79**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.73	0.16	0.00	0.05	0.02
	Worker	0.17	0.11	1.37	0.00	0.37	0.10
	Total	**0.19**	**0.83**	**1.50**	**0.01**	**0.42**	**0.12**
TOTAL		***1.94***	***21.67***	***9.43***	***0.03***	***2.08***	***0.90***
P2 Building Construction & P2 Fine Grading		**4.02**	**39.82**	**24.60**	**0.07**	**3.67**	**1.96**

Phase 2 Finishing/Landscaping

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**						
	Off-Road	0.6043	5.9747	6.4425	0.0143	0.2609	0.24
	Total	**0.6043**	**5.9747**	**6.4425**	**0.0143**	**0.2609**	**0.24**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0145	0.5488	0.1007	1.61E-03	0.0368	0.0113
	Worker	0.0949	0.0565	0.7606	2.12E-03	0.2075	0.0563
	Total	**0.1094**	**0.6053**	**0.8613**	**3.73E-03**	**0.2443**	**0.0675**
TOTAL		***0.71***	***6.58***	***7.30***	***0.02***	***0.51***	***0.31***
Onsite	**2022 Winter**						
	Off-Road	0.6043	5.9747	6.4425	0.0143	0.2609	0.24
	Total	**0.6043**	**5.9747**	**6.4425**	**0.0143**	**0.2609**	**0.24**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0154	0.5423	0.1182	1.54E-03	0.0368	0.0113
	Worker	0.0954	0.0594	0.6228	1.90E-03	0.2075	0.0563
	Total	**0.1107**	**0.6017**	**0.7411**	**3.44E-03**	**0.2443**	**0.0676**
TOTAL		***0.72***	***6.58***	***7.18***	***0.02***	***0.51***	***0.31***
Onsite	**2022**						
	Off-Road	0.60	5.97	6.44	0.01	0.26	0.24

	Total	**0.60**	**5.97**	**6.44**	**0.01**	**0.26**	**0.24**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.55	0.12	0.00	0.04	0.01
	Worker	0.10	0.06	0.76	0.00	0.21	0.06
	Total	**0.11**	**0.61**	**0.86**	**0.00**	**0.24**	**0.07**
TOTAL		***0.72***	***6.58***	***7.30***	***0.02***	***0.51***	***0.31***

Phase 2 Architectural Coating

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**						
	Archit. Coating	94.8131				0	0
	Off-Road	0.2045	1.4085	1.8136	2.97E-03	0.0817	0.0817
	Total	**95.0176**	**1.4085**	**1.8136**	**2.97E-03**	**0.0817**	**0.0817**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0569	0.0339	0.4564	1.27E-03	0.1245	0.0338
	Total	**0.0569**	**0.0339**	**0.4564**	**1.27E-03**	**0.1245**	**0.0338**
TOTAL		***95.07***	***1.44***	***2.27***	***0.00***	***0.21***	***0.12***
Onsite	**2022 Winter**						
	Archit. Coating	94.8131				0	0
	Off-Road	0.2045	1.4085	1.8136	2.97E-03	0.0817	0.0817
	Total	**95.0176**	**1.4085**	**1.8136**	**2.97E-03**	**0.0817**	**0.0817**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0572	0.0356	0.3737	1.14E-03	0.1245	0.0338
	Total	**0.0572**	**0.0356**	**0.3737**	**1.14E-03**	**0.1245**	**0.0338**
TOTAL		***95.07***	***1.44***	***2.19***	***0.00***	***0.21***	***0.12***
Onsite	**2022**						
	Archit. Coating	94.81	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.20	1.41	1.81	0.00	0.08	0.08
	Total	**95.02**	**1.41**	**1.81**	**0.00**	**0.08**	**0.08**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.06	0.04	0.46	0.00	0.12	0.03
	Total	**0.06**	**0.04**	**0.46**	**0.00**	**0.12**	**0.03**
TOTAL		***95.07***	***1.44***	***2.27***	***0.00***	***0.21***	***0.12***

P2 Building Construction, P2 Finish/Landscape, & P2 Coating	**97.87**	**26.17**	**24.74**	**0.06**	**2.30**	**1.47**

Phase 2 Asphalt Paving

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**						
	Off-Road	1.0321	11.8577	8.5871	0.0183	0.4823	0.4437
	Paving	5.0828				0	0
	Total	**6.1149**	**11.8577**	**8.5871**	**0.0183**	**0.4823**	**0.4437**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.2507	9.5121	1.7449	0.0278	0.6378	0.1951
	Worker	0.0949	0.0565	0.7606	2.12E-03	0.2075	0.0563
	Total	**0.3456**	**9.5685**	**2.5055**	**0.0299**	**0.8453**	**0.2514**

TOTAL		***6.46***	***21.43***	***11.09***	***0.05***	***1.33***	***0.70***
Onsite	**2022 Winter**						
	Off-Road	1.0321	11.8577	8.5871	0.0183	0.4823	0.4437
	Paving	5.0828				0	0
	Total	**6.1149**	**11.8577**	**8.5871**	**0.0183**	**0.4823**	**0.4437**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.2663	9.4002	2.0494	0.0267	0.6383	0.1955
	Worker	0.0954	0.0594	0.6228	1.90E-03	0.2075	0.0563
	Total	**0.3616**	**9.4596**	**2.6722**	**0.0286**	**0.8457**	**0.2518**
TOTAL		***6.48***	***21.32***	***11.26***	***0.05***	***1.33***	***0.70***
Onsite	**2022**						
	Off-Road	1.03	11.86	8.59	0.02	0.48	0.44
	Paving	5.08	0.00	0.00	0.00	0.00	0.00
	Total	**6.11**	**11.86**	**8.59**	**0.02**	**0.48**	**0.44**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.27	9.51	2.05	0.03	0.64	0.20
	Worker	0.10	0.06	0.76	0.00	0.21	0.06
	Total	**0.36**	**9.57**	**2.67**	**0.03**	**0.85**	**0.25**
TOTAL		***6.48***	***21.43***	***11.26***	***0.05***	***1.33***	***0.70***
P2 Building Construction, P2 Finish/Landscape, P2 Coating, & P2 Paving		**104.34**	**47.59**	**36.00**	**0.11**	**3.63**	**2.17**
P2 Building Construction, P2 Finish/Landscape, & P2 Coating		**97.87**	**26.17**	**24.74**	**0.06**	**2.30**	**1.47**
P2 Building Construction & P2 Finish/Landscape		**2.79**	**24.72**	**22.47**	**0.05**	**2.09**	**1.36**
MAX DAILY		**305**	**123**	**66**	**0**	**17**	**8**
Regional Thresholds		**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Thresholds?		Yes	Yes	No	No	No	No

Regional Construction Emissions Worksheet - Unmitigated

*CalEEMod, Version 2016.3.2

Offsite Asphalt Demolition

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						
	Off-Road	1.3616	13.8938	6.6529	0.0124	0.7053	0.6503
	Total	**1.3616**	**13.8938**	**6.6529**	**0.0124**	**0.7053**	**0.6503**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0182	0.6332	0.1234	1.63E-03	0.0389	0.0133
	Worker	0.1637	0.1051	1.3492	3.41E-03	0.3113	0.0845
	Total	**0.1819**	**0.7383**	**1.4726**	**5.04E-03**	**0.3502**	**0.0978**
TOTAL		***1.54***	***14.63***	***8.13***	***0.02***	***1.06***	***0.75***
Onsite	**2020 Winter**						
	Off-Road	1.3616	13.8938	6.6529	0.0124	0.7053	0.6503
	Total	**1.3616**	**13.8938**	**6.6529**	**0.0124**	**0.7053**	**0.6503**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0192	0.628	0.143	1.56E-03	0.0389	0.0133
	Worker	0.1638	0.1106	1.1089	3.05E-03	0.3113	0.0845
	Total	**0.183**	**0.7386**	**1.2519**	**4.61E-03**	**0.3502**	**0.0978**
TOTAL		***1.54***	***14.63***	***7.90***	***0.02***	***1.06***	***0.73***
Onsite	**2020**						
	Off-Road	1.36	13.89	6.65	0.01	0.71	0.65
	Total	**1.36**	**13.89**	**6.65**	**0.01**	**0.71**	**0.65**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.63	0.14	0.00	0.04	0.01
	Worker	0.16	0.11	1.35	0.00	0.31	0.08
	Total	**0.18**	**0.74**	**1.47**	**0.01**	**0.35**	**0.10**
TOTAL		***1.54***	***14.63***	***8.13***	***0.02***	***1.06***	***0.75***

Offsite Demolition Debris Onsite Reprocessing

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						
	Off-Road	1.2563	8.0433	4.8197	0.0224	0.2817	0.2817
	Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**	**0.2817**	**0.2817**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0164	0.0105	0.1349	3.40E-04	0.0311	8.45E-03
	Total	**0.0164**	**0.0105**	**0.1349**	**3.40E-04**	**0.0311**	**8.45E-03**
TOTAL		***1.27***	***8.05***	***4.95***	***0.02***	***0.31***	***0.29***
Onsite	**2020 Winter**						
	Off-Road	1.2563	8.0433	4.8197	0.0224	0.2817	0.2817
	Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**	**0.2817**	**0.2817**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0164	0.0111	0.1109	3.10E-04	0.0311	8.45E-03
	Total	**0.0164**	**0.0111**	**0.1109**	**3.10E-04**	**0.0311**	**8.45E-03**
TOTAL		***1.27***	***8.05***	***4.93***	***0.02***	***0.31***	***0.29***

Onsite	**2020**						
	Off-Road	1.26	8.04	4.82	0.02	0.28	0.28
	Total	**1.26**	**8.04**	**4.82**	**0.02**	**0.28**	**0.28**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.13	0.00	0.03	0.01
	Total	**0.02**	**0.01**	**0.13**	**0.00**	**0.03**	**0.01**
TOTAL		***1.27***	***8.05***	***4.95***	***0.02***	***0.31***	***0.29***
Offsite Asphalt Demo & Debris Processing		**2.82**	**22.69**	**13.08**	**0.04**	**1.37**	**1.04**

Phase 2 Building Demolition

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						
	Off-Road	1.2741	13.3787	9.0385	0.036	0.4561	0.4196
	Total	**1.2741**	**13.3787**	**9.0385**	**0.036**	**0.4561**	**0.4196**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0243	0.8442	0.1645	2.17E-03	0.0518	0.0177
	Worker	0.0655	0.042	0.5397	1.36E-03	0.1245	0.0338
	Total	**0.0898**	**0.8863**	**0.7042**	**3.53E-03**	**0.1764**	**0.0515**
TOTAL		***1.36***	***14.27***	***9.74***	***0.04***	***0.63***	***0.47***
Onsite	**2020 Winter**						
	Off-Road	1.2741	13.3787	9.0385	0.036	0.4561	0.4196
	Total	**1.2741**	**13.3787**	**9.0385**	**0.036**	**0.4561**	**0.4196**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0256	0.8374	0.1907	2.09E-03	0.0519	0.0177
	Worker	0.0655	0.0442	0.4436	1.22E-03	0.1245	0.0338
	Total	**0.0911**	**0.8816**	**0.6342**	**3.31E-03**	**0.1764**	**0.0515**
TOTAL		***1.37***	***14.26***	***9.67***	***0.04***	***0.63***	***0.45***
Onsite	**2020**						
	Off-Road	1.27	13.38	9.04	0.04	0.46	0.42
	Total	**1.27**	**13.38**	**9.04**	**0.04**	**0.46**	**0.42**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.03	0.84	0.19	0.00	0.05	0.02
	Worker	0.07	0.04	0.54	0.00	0.12	0.03
	Total	**0.09**	**0.89**	**0.70**	**0.00**	**0.18**	**0.05**
TOTAL		***1.37***	***14.27***	***9.74***	***0.04***	***0.63***	***0.47***

Phase 1 Building Demolition

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						
	Off-Road	1.2741	13.3787	9.0385	0.036	0.4561	0.4196

	Total	**1.2741**	**13.3787**	**9.0385**	**0.036**	**0.4561**	**0.4196**
Offsite							
	Hauling	0	0	0	0.00E+00	0	0
	Vendor	0.0243	0.8442	0.1645	2.17E-03	0.0518	1.77E-02
	Worker	0.1092	0.0701	0.8995	2.27E-03	0.2075	0.0563
	Total	**0.1335**	**0.9143**	**1.064**	**4.44E-03**	**0.2594**	**0.074**
TOTAL		***1.41***	***14.29***	***10.10***	***0.04***	***0.72***	***0.49***
Onsite	**2020 Winter**						
	Off-Road	1.2741	13.3787	9.0385	0.036	0.4561	0.4196
	Total	**1.2741**	**13.3787**	**9.0385**	**0.036**	**0.4561**	**0.4196**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0256	0.8374	0.1907	2.09E-03	0.0519	0.0177
	Worker	0.1092	0.0737	0.7393	2.04E-03	0.2075	0.0563
	Total	**0.1348**	**0.9111**	**0.9299**	**4.13E-03**	**0.2594**	**0.0741**
TOTAL		***1.41***	***14.29***	***9.97***	***0.04***	***0.72***	***0.48***
Onsite	**2020**						
	Off-Road	1.27	13.38	9.04	0.04	0.46	0.42
	Total	**1.27**	**13.38**	**9.04**	**0.04**	**0.46**	**0.42**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.03	0.84	0.19	0.00	0.05	0.02
	Worker	0.11	0.07	0.90	0.00	0.21	0.06
	Total	**0.13**	**0.91**	**1.06**	**0.00**	**0.26**	**0.07**
TOTAL		***1.41***	***14.29***	***10.10***	***0.04***	***0.72***	***0.49***
Offsite Asphalt Demo & Debris Processing, P1 Building Demolition, & P2 Building Demolition		**5.59**	**51.24**	**32.93**	**0.12**	**2.72**	**2.00**
Offsite Asphalt Demo & Debris Processing, & P1 Building Demolition		**4.23**	**36.98**	**23.18**	**0.08**	**2.08**	**1.53**
Phase 1 Bldg Demolition Debris Haul							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						

	Fugitive Dust					0.2562	0.0388
	Off-Road	0.3084	3.1607	2.2149	9.77E-03	0.1041	0.0958
	Total	**0.3084**	**3.1607**	**2.2149**	**9.77E-03**	**0.3603**	**0.1346**
Offsite							
	Hauling	0.02	0.8249	0.1142	2.39E-03	0.0478	0.0146
	Vendor	0	0	0	0	0	0
	Worker	0.0328	0.021	0.2698	6.80E-04	0.0623	0.0169
	Total	**0.0527**	**0.8459**	**0.3841**	**3.07E-03**	**0.1101**	**0.0315**
TOTAL		***0.36***	***4.01***	***2.60***	***0.01***	***0.47***	***0.17***
Onsite	**2020 Winter**						
	Fugitive Dust					0.2562	0.0388
	Off-Road	0.3084	3.1607	2.2149	9.77E-03	0.1041	0.0958
	Total	**0.3084**	**3.1607**	**2.2149**	**9.77E-03**	**0.3603**	**0.1346**
Offsite							
	Hauling	0.0211	0.8227	0.1354	2.30E-03	0.0478	0.0147
	Vendor	0	0	0	0	0	0
	Worker	0.0328	0.0221	0.2218	6.10E-04	0.0623	0.0169
	Total	**0.0539**	**0.8448**	**0.3571**	**2.91E-03**	**0.1101**	**0.0316**
TOTAL		***0.36***	***4.01***	***2.57***	***0.01***	***0.47***	***0.15***
Onsite	**2020**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.26	0.04
	Off-Road	0.31	3.16	2.21	0.01	0.10	0.10
	Total	**0.31**	**3.16**	**2.21**	**0.01**	**0.36**	**0.13**
Offsite							
	Hauling	0.02	0.82	0.14	0.00	0.05	0.01
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.03	0.02	0.27	0.00	0.06	0.02
	Total	**0.05**	**0.85**	**0.38**	**0.00**	**0.11**	**0.03**
TOTAL		***0.36***	***4.01***	***2.60***	***0.01***	***0.47***	***0.17***

Phase 1 Bldg Demolition Debris Onsite Reprocessing

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						
	Off-Road	1.2563	8.0433	4.8197	0.0224	0.2817	0.2817
	Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**	**0.2817**	**0.2817**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0164	0.0105	0.1349	3.40E-04	0.0311	8.45E-03
	Total	**0.0164**	**0.0105**	**0.1349**	**3.40E-04**	**0.0311**	**8.45E-03**
TOTAL		***1.27***	***8.05***	***4.95***	***0.02***	***0.31***	***0.29***
Onsite	**2020 Winter**						
	Off-Road	1.2563	8.0433	4.8197	0.0224	0.2817	0.2817
	Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**	**0.2817**	**0.2817**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0164	0.0111	0.1109	3.10E-04	0.0311	8.45E-03
	Total	**0.0164**	**0.0111**	**0.1109**	**3.10E-04**	**0.0311**	**8.45E-03**
TOTAL		***1.27***	***8.05***	***4.93***	***0.02***	***0.31***	***0.29***
Onsite	**2020**						
	Off-Road	1.26	8.04	4.82	0.02	0.28	0.28
	Total	**1.26**	**8.04**	**4.82**	**0.02**	**0.28**	**0.28**

Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.13	0.00	0.03	0.01
	Total	**0.02**	**0.01**	**0.13**	**0.00**	**0.03**	**0.01**
TOTAL		***1.27***	***8.05***	***4.95***	***0.02***	***0.31***	***0.29***

Phase 1 Asphalt Demolition

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2020 Summer**						
	Off-Road		1.2741	13.3787	9.0385	0.036	0.4561	0.4196
	Total		**1.2741**	**13.3787**	**9.0385**	**0.036**	**0.4561**	**0.4196**
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.0304	1.0553	0.2057	2.71E-03	0.0648	0.0221
	Worker		0.1092	0.0701	0.8995	2.27E-03	0.2075	0.0563
	Total		**0.1395**	**1.1254**	**1.1051**	**4.98E-03**	**0.2723**	**0.0784**
TOTAL			***1.41***	***14.50***	***10.14***	***0.04***	***0.73***	***0.50***
Onsite		**2020 Winter**						
	Off-Road		1.2741	13.3787	9.0385	0.036	0.4561	0.4196
	Total		**1.2741**	**13.3787**	**9.0385**	**0.036**	**0.4561**	**0.4196**
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.032	1.0467	0.2384	2.61E-03	0.0649	0.0221
	Worker		0.1092	0.0737	0.7393	2.04E-03	0.2075	0.0563
	Total		**0.1412**	**1.1205**	**0.9776**	**4.65E-03**	**0.2724**	**0.0785**
TOTAL			***1.42***	***14.50***	***10.02***	***0.04***	***0.73***	***0.48***
Onsite		**2020**						
	Off-Road		1.27	13.38	9.04	0.04	0.46	0.42
	Total		**1.27**	**13.38**	**9.04**	**0.04**	**0.46**	**0.42**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.03	1.06	0.24	0.00	0.06	0.02
	Worker		0.11	0.07	0.90	0.00	0.21	0.06
	Total		**0.14**	**1.13**	**1.11**	**0.00**	**0.27**	**0.08**
TOTAL			***1.42***	***14.50***	***10.14***	***0.04***	***0.73***	***0.50***

Phase 2 Building Demolition Debris Haul

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2020 Summer**						
	Fugitive Dust						0.2562	0.0388
	Off-Road		0.6168	6.3214	4.4298	0.0195	0.2083	0.1916
	Total		**0.6168**	**6.3214**	**4.4298**	**0.0195**	**0.4644**	**0.2304**
Offsite								
	Hauling		0.02	0.8249	0.1142	2.39E-03	0.0478	0.0146
	Vendor		0	0	0	0	0	0
	Worker		0.0273	0.0175	0.2249	5.70E-04	0.0519	0.0141
	Total		**0.0473**	**0.8424**	**0.3391**	**2.96E-03**	**0.0997**	**0.0287**
TOTAL			***0.66***	***7.16***	***4.77***	***0.02***	***0.56***	***0.26***
Onsite		**2020 Winter**						
	Fugitive Dust						0.2562	0.0388
	Off-Road		0.6168	6.3214	4.4298	0.0195	0.2083	0.1916
	Total		**0.6168**	**6.3214**	**4.4298**	**0.0195**	**0.4644**	**0.2304**
Offsite								

	Hauling	0.0211	0.8227	0.1354	2.30E-03	0.0478	0.0147
	Vendor	0	0	0	0	0	0
	Worker	0.0273	0.0184	0.1848	5.10E-04	0.0519	0.0141
	Total	**0.0484**	**0.8411**	**0.3202**	**2.81E-03**	**0.0997**	**0.0288**
TOTAL		***0.67***	***7.16***	***4.75***	***0.02***	***0.56***	***0.24***
Onsite	**2020**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.26	0.04
	Off-Road	0.62	6.32	4.43	0.02	0.21	0.19
	Total	**0.62**	**6.32**	**4.43**	**0.02**	**0.46**	**0.23**
Offsite							
	Hauling	0.02	0.82	0.14	0.00	0.05	0.01
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.03	0.02	0.22	0.00	0.05	0.01
	Total	**0.05**	**0.84**	**0.34**	**0.00**	**0.10**	**0.03**
TOTAL		***0.67***	***7.16***	***4.77***	***0.02***	***0.56***	***0.26***

Phase 2 Building Demolition Debris Onsite Reprocessing

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						
	Off-Road	1.2563	8.0433	4.8197	0.0224	0.2817	0.2817
	Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**	**0.2817**	**0.2817**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0655	0.042	0.5397	1.36E-03	0.1245	0.0338
	Total	**0.0655**	**0.042**	**0.5397**	**1.36E-03**	**0.1245**	**0.0338**
TOTAL		***1.32***	***8.09***	***5.36***	***0.02***	***0.41***	***0.32***
Onsite	**2020 Winter**						
	Off-Road	1.2563	8.0433	4.8197	0.0224	0.2817	0.2817
	Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**	**0.2817**	**0.2817**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0655	0.0442	0.4436	1.22E-03	0.1245	0.0338
	Total	**0.0655**	**0.0442**	**0.4436**	**1.22E-03**	**0.1245**	**0.0338**
TOTAL		***1.32***	***8.09***	***5.26***	***0.02***	***0.41***	***0.32***
Onsite	**2020**						
	Off-Road	1.26	8.04	4.82	0.02	0.28	0.28
	Total	**1.26**	**8.04**	**4.82**	**0.02**	**0.28**	**0.28**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.07	0.04	0.54	0.00	0.12	0.03
	Total	**0.07**	**0.04**	**0.54**	**0.00**	**0.12**	**0.03**
TOTAL		***1.32***	***8.09***	***5.36***	***0.02***	***0.41***	***0.32***

Phase 2 Asphalt Demolition

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						
	Off-Road	1.2741	13.3787	9.0385	0.036	0.4561	0.4196
	Total	**1.2741**	**13.3787**	**9.0385**	**0.036**	**0.4561**	**0.4196**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0425	1.4774	0.2879	3.80E-03	0.0907	0.0309

	Worker	0.1092	0.0701	0.8995	2.27E-03	0.2075	0.0563
	Total	**0.1517**	**1.5475**	**1.1874**	**6.07E-03**	**0.2983**	**0.0873**
TOTAL		***1.43***	***14.93***	***10.23***	***0.04***	***0.75***	***0.51***
Onsite	**2020 Winter**						
	Off-Road	1.2741	13.3787	9.0385	0.036	0.4561	0.4196
	Total	**1.2741**	**13.3787**	**9.0385**	**0.036**	**0.4561**	**0.4196**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0448	1.4654	0.3337	3.65E-03	0.0908	0.031
	Worker	0.1092	0.0737	0.7393	2.04E-03	0.2075	0.0563
	Total	**0.154**	**1.5391**	**1.073**	**5.69E-03**	**0.2983**	**0.0873**
TOTAL		***1.43***	***14.92***	***10.11***	***0.04***	***0.75***	***0.48***
Onsite	**2020**						
	Off-Road	1.27	13.38	9.04	0.04	0.46	0.42
	Total	**1.27**	**13.38**	**9.04**	**0.04**	**0.46**	**0.42**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.04	1.48	0.33	0.00	0.09	0.03
	Worker	0.11	0.07	0.90	0.00	0.21	0.06
	Total	**0.15**	**1.55**	**1.19**	**0.01**	**0.30**	**0.09**
TOTAL		***1.43***	***14.93***	***10.23***	***0.04***	***0.75***	***0.51***
Offsite Asphalt Demo & Debris Processing, P1 Building Demo Debris Haul, P1 Building Demo Debris Processing, P1 Asphalt Demo, P2 Building Demo Dbris haul, P1 Building Demo Debris Processing, P2 Asphalt Demo		**9.28**	**79.43**	**51.13**	**0.21**	**4.60**	**3.07**
Offsite Asphalt Demo & Debris Processing, P1 Asphalt Demo, & P2 Asphalt Demo		**5.66**	**52.12**	**33.45**	**0.12**	**2.85**	**2.04**
P1 Asphalt Demo, & P2 Asphalt Demo		**2.84**	**29.43**	**20.37**	**0.08**	**1.48**	**1.00**
Phase 1 Asphalt Demolition Debris Onsite Reprocessing							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						
	Off-Road	1.2563	8.0433	4.8197	0.0224	0.2817	0.2817
	Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**	**0.2817**	**0.2817**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0164	0.0105	0.1349	3.40E-04	0.0311	8.45E-03
	Total	**0.0164**	**0.0105**	**0.1349**	**3.40E-04**	**0.0311**	**8.45E-03**
TOTAL		***1.27***	***8.05***	***4.95***	***0.02***	***0.31***	***0.29***
Onsite	**2020 Winter**						
	Off-Road	1.2563	8.0433	4.8197	0.0224	0.2817	0.2817
	Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**	**0.2817**	**0.2817**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0164	0.0111	0.1109	3.10E-04	0.0311	8.45E-03
	Total	**0.0164**	**0.0111**	**0.1109**	**3.10E-04**	**0.0311**	**8.45E-03**
TOTAL		***1.27***	***8.05***	***4.93***	***0.02***	***0.31***	***0.29***

Onsite		**2020**					
	Off-Road	1.26	8.04	4.82	0.02	0.28	0.28
	Total	**1.26**	**8.04**	**4.82**	**0.02**	**0.28**	**0.28**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.13	0.00	0.03	0.01
	Total	**0.02**	**0.01**	**0.13**	**0.00**	**0.03**	**0.01**
TOTAL		***1.27***	***8.05***	***4.95***	***0.02***	***0.31***	***0.29***
P1 Asphalt Demo & P1 Asphalt Demo Debris Processing		**2.69**	**22.56**	**15.10**	**0.06**	**1.04**	**0.79**

Phase 1 Asphalt Demolition Debris Haul

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2020 Summer**						
	Fugitive Dust						0.6434	0.0974
	Off-Road		0	0	0	0	0	0
	Total		**0**	**0**	**0**	**0**	**0.6434**	**0.0974**
Offsite								
	Hauling		0.1724	5.9738	1.0764	0.0253	0.6544	0.1992
	Vendor		0	0	0	0	0	0
	Worker		0.0328	0.021	0.2698	6.80E-04	0.0623	0.0169
	Total		**0.2051**	**5.9948**	**1.3462**	**0.0259**	**0.7167**	**0.2161**
TOTAL			***0.21***	***5.99***	***1.35***	***0.03***	***1.36***	***0.31***
Onsite		**2020 Winter**						
	Fugitive Dust						0.6434	0.0974
	Off-Road		0	0	0	0	0	0
	Total		**0**	**0**	**0**	**0**	**0.6434**	**0.0974**
Offsite								
	Hauling		0.1744	6.1766	1.1104	0.0251	0.6545	0.1993
	Vendor		0	0	0	0	0	0
	Worker		0.0328	0.0221	0.2218	6.10E-04	0.0623	0.0169
	Total		**0.2072**	**6.1987**	**1.3322**	**0.0257**	**0.7168**	**0.2162**
TOTAL			***0.21***	***6.20***	***1.33***	***0.03***	***1.36***	***0.11***
Onsite		**2020**						
	Fugitive Dust		0.00	0.00	0.00	0.00	0.64	0.10
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**0.64**	**0.10**
Offsite								
	Hauling		0.17	6.18	1.11	0.03	0.65	0.20
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.03	0.02	0.27	0.00	0.06	0.02
	Total		**0.21**	**6.20**	**1.35**	**0.03**	**0.72**	**0.22**
TOTAL			***0.21***	***6.20***	***1.35***	***0.03***	***1.36***	***0.31***
P1 Asphalt Demo, P1 Asphalt Demo Debris Processing, & P1 Asphalt Demo Debris Haul			**2.90**	**28.76**	**16.44**	**0.09**	**2.40**	**1.10**

Phase 2 Asphalt Demolition Debris Haul

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2020 Summer**						
	Fugitive Dust						0.6404	0.097
	Off-Road		0.6168	6.3214	4.4298	0.0195	0.2083	0.1916
	Total		**0.6168**	**6.3214**	**4.4298**	**0.0195**	**0.8486**	**0.2886**
Offsite								

	Hauling	0.0741	2.773	0.4467	0.01	0.2383	0.0727
	Vendor	0	0	0	0	0	0
	Worker	0.0655	0.042	0.5397	1.36E-03	0.1245	0.0338
	Total	**0.1396**	**2.815**	**0.9864**	**0.0114**	**0.3628**	**0.1065**
TOTAL		***0.76***	***9.14***	***5.42***	***0.03***	***1.21***	***0.40***
Onsite	**2020 Winter**						
	Fugitive Dust					0.6404	0.097
	Off-Road	0.6168	6.3214	4.4298	0.0195	0.2083	0.1916
	Total	**0.6168**	**6.3214**	**4.4298**	**0.0195**	**0.8486**	**0.2886**
Offsite							
	Hauling	0.0764	2.8206	0.4878	9.87E-03	0.2384	0.0727
	Vendor	0	0	0	0	0	0
	Worker	0.0655	0.0442	0.4436	1.22E-03	0.1245	0.0338
	Total	**0.1419**	**2.8649**	**0.9313**	**0.0111**	**0.3629**	**0.1066**
TOTAL		***0.76***	***9.19***	***5.36***	***0.03***	***1.21***	***0.32***
Onsite	**2020**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.64	0.10
	Off-Road	0.62	6.32	4.43	0.02	0.21	0.19
	Total	**0.62**	**6.32**	**4.43**	**0.02**	**0.85**	**0.29**
Offsite							
	Hauling	0.08	2.82	0.49	0.01	0.24	0.07
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.07	0.04	0.54	0.00	0.12	0.03
	Total	**0.14**	**2.86**	**0.99**	**0.01**	**0.36**	**0.11**
TOTAL		***0.76***	***9.19***	***5.42***	***0.03***	***1.21***	***0.40***

Phase 2 Asphalt Demolition Debris Onsite Reprocessing

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						
	Off-Road	1.2563	8.0433	4.8197	0.0224	0.2817	0.2817
	Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**	**0.2817**	**0.2817**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0164	0.0105	0.1349	3.40E-04	0.0311	8.45E-03
	Total	**0.0164**	**0.0105**	**0.1349**	**3.40E-04**	**0.0311**	**8.45E-03**
TOTAL		***1.27***	***8.05***	***4.95***	***0.02***	***0.31***	***0.29***
Onsite	**2020 Winter**						
	Off-Road	1.2563	8.0433	4.8197	0.0224	0.2817	0.2817
	Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**	**0.2817**	**0.2817**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0164	0.0111	0.1109	3.10E-04	0.0311	8.45E-03
	Total	**0.0164**	**0.0111**	**0.1109**	**3.10E-04**	**0.0311**	**8.45E-03**
TOTAL		***1.27***	***8.05***	***4.93***	***0.02***	***0.31***	***0.29***
Onsite	**2020**						
	Off-Road	1.26	8.04	4.82	0.02	0.28	0.28
	Total	**1.26**	**8.04**	**4.82**	**0.02**	**0.28**	**0.28**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.13	0.00	0.03	0.01

	Total	**0.02**	**0.01**	**0.13**	**0.00**	**0.03**	**0.01**
TOTAL		***1.27***	***8.05***	***4.95***	***0.02***	***0.31***	***0.29***
P1 Asphalt Demo, P1 Asphalt Demo Debris Processing, P1 Asphalt Demo Debris Haul, P2 Asphalt Demo Debris Haul, & P2 Asphalt Demo Debris Processing		**4.93**	**46.00**	**26.82**	**0.14**	**3.93**	**1.79**
P1 Asphalt Demo, P1 Asphalt Demo Debris Processing, P1 Asphalt Demo Debris Haul, & P2 Asphalt Demo Debris Processing		**4.17**	**36.81**	**21.40**	**0.11**	**2.71**	**1.39**

Phase 1 Rough Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						
	Fugitive Dust					8.5491	3.1974
	Off-Road	1.7497	28.2137	56.8648	0.1069	0.175	0.175
	Total	**1.7497**	**28.2137**	**56.8648**	**0.1069**	**8.7241**	**3.3724**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0425	1.4774	0.2879	3.80E-03	0.0907	0.0309
	Worker	0.1965	0.1261	1.619	4.09E-03	0.3736	0.1014
	Total	**0.239**	**1.6035**	**1.907**	**7.89E-03**	**0.4643**	**0.1323**
TOTAL		***1.99***	***29.82***	***58.77***	***0.11***	***9.19***	***3.50***
Onsite	**2020 Winter**						
	Fugitive Dust					8.5491	3.1974
	Off-Road	1.7497	28.2137	56.8648	0.1069	0.175	0.175
	Total	**1.7497**	**28.2137**	**56.8648**	**0.1069**	**8.7241**	**3.3724**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0448	1.4654	0.3337	3.65E-03	0.0908	0.031
	Worker	0.1966	0.1327	1.3306	3.66E-03	0.3736	0.1014
	Total	**0.2414**	**1.5981**	**1.6644**	**7.31E-03**	**0.4644**	**0.1324**
TOTAL		***1.99***	***29.81***	***58.53***	***0.11***	***9.19***	***3.47***
Onsite	**2020**						
	Fugitive Dust	0.00	0.00	0.00	0.00	8.55	3.20
	Off-Road	1.75	28.21	56.86	0.11	0.18	0.18
	Total	**1.75**	**28.21**	**56.86**	**0.11**	**8.72**	**3.37**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.04	1.48	0.33	0.00	0.09	0.03
	Worker	0.20	0.13	1.62	0.00	0.37	0.10
	Total	**0.24**	**1.60**	**1.91**	**0.01**	**0.46**	**0.13**
TOTAL		***1.99***	***29.82***	***58.77***	***0.11***	***9.19***	***3.50***
Onsite	**2021 Summer**						
	Fugitive Dust					8.5491	3.1974
	Off-Road	1.7497	28.2137	56.8648	0.1069	0.175	0.175
	Total	**1.7497**	**28.2137**	**56.8648**	**0.1069**	**8.7241**	**3.3724**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0362	1.3501	0.2541	3.78E-03	0.0862	0.0266
	Worker	0.1829	0.1131	1.4903	3.96E-03	0.3735	0.1014
	Total	**0.2191**	**1.4632**	**1.7444**	**7.74E-03**	**0.4597**	**0.128**
TOTAL		***1.97***	***29.68***	***58.61***	***0.11***	***9.18***	***3.50***

Onsite	**2021 Winter**						
	Fugitive Dust					8.5491	3.1974
	Off-Road	1.7497	28.2137	56.8648	0.1069	0.175	0.175
	Total	**1.7497**	**28.2137**	**56.8648**	**0.1069**	**8.7241**	**3.3724**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0384	1.3358	0.2972	3.63E-03	0.0863	0.0267
	Worker	0.1833	0.1189	1.2224	3.55E-03	0.3735	0.1014
	Total	**0.2218**	**1.4547**	**1.5196**	**7.18E-03**	**0.4598**	**0.128**
TOTAL		***1.97***	***29.67***	***58.38***	***0.11***	***9.18***	***3.47***
Onsite	**2021**						
	Fugitive Dust	0.00	0.00	0.00	0.00	8.55	3.20
	Off-Road	1.75	28.21	56.86	0.11	0.18	0.18
	Total	**1.75**	**28.21**	**56.86**	**0.11**	**8.72**	**3.37**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.04	1.35	0.30	0.00	0.09	0.03
	Worker	0.18	0.12	1.49	0.00	0.37	0.10
	Total	**0.22**	**1.46**	**1.74**	**0.01**	**0.46**	**0.13**
TOTAL		***1.97***	***29.68***	***58.61***	***0.11***	***9.18***	***3.50***

Phase 1 Rough Grading Soil Haul

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**						
	Fugitive Dust					0.039	5.90E-03
	Off-Road	0.1609	2.5937	5.2276	9.77E-03	0.0161	0.0161
	Total	**0.1609**	**2.5937**	**5.2276**	**9.77E-03**	**0.0551**	**0.022**
Offsite							
	Hauling	0.4813	20.6811	2.6917	0.0543	1.2264	0.3617
	Vendor	0	0	0	0	0	0
	Worker	0.0164	0.0105	0.1349	3.40E-04	0.0311	8.45E-03
	Total	**0.4977**	**20.6917**	**2.8266**	**0.0547**	**1.2576**	**0.3702**
TOTAL		***0.66***	***23.29***	***8.05***	***0.06***	***1.31***	***0.39***
Onsite	**2020 Winter**						
	Fugitive Dust					0.039	5.90E-03
	Off-Road	0.1609	2.5937	5.2276	9.77E-03	0.0161	0.0161
	Total	**0.1609**	**2.5937**	**5.2276**	**9.77E-03**	**0.0551**	**0.022**
Offsite							
	Hauling	0.5138	20.4747	3.3033	0.052	1.2276	0.3628
	Vendor	0	0	0	0	0	0
	Worker	0.0164	0.0111	0.1109	3.10E-04	0.0311	8.45E-03
	Total	**0.5302**	**20.4858**	**3.4142**	**0.0523**	**1.2587**	**0.3713**
TOTAL		***0.69***	***23.08***	***8.64***	***0.06***	***1.31***	***0.03***
Onsite	**2020**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.04	0.01
	Off-Road	0.16	2.59	5.23	0.01	0.02	0.02
	Total	**0.16**	**2.59**	**5.23**	**0.01**	**0.06**	**0.02**
Offsite							
	Hauling	0.51	20.68	3.30	0.05	1.23	0.36
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.13	0.00	0.03	0.01
	Total	**0.53**	**20.69**	**3.41**	**0.05**	**1.26**	**0.37**
TOTAL		***0.69***	***23.29***	***8.64***	***0.06***	***1.31***	***0.39***

P1 Rough Grading & P1 Rough Grading Haul		**2.68**	**53.10**	**67.41**	**0.18**	**10.50**	**3.90**
Onsite	**2021 Summer**						
	Fugitive Dust					0.039	5.90E-03
	Off-Road	0.1609	2.5937	5.2276	9.76E-03	0.0161	0.0161
	Total	**0.1609**	**2.5937**	**5.2276**	**9.76E-03**	**0.0551**	**0.022**
Offsite							
	Hauling	0.4582	19.4191	2.591	0.0538	2.9726	0.7864
	Vendor	0	0	0	0	0	0
	Worker	0.0152	9.42E-03	0.1242	3.30E-04	0.0311	8.45E-03
	Total	**0.4734**	**19.4285**	**2.7152**	**0.0542**	**3.0037**	**0.7948**
TOTAL		***0.63***	***22.02***	***7.94***	***0.06***	***3.06***	***0.82***
Onsite	**2021 Winter**						
	Fugitive Dust					0.039	5.90E-03
	Off-Road	0.1609	2.5937	5.2276	9.76E-03	0.0161	0.0161
	Total	**0.1609**	**2.5937**	**5.2276**	**9.76E-03**	**0.0551**	**0.022**
Offsite							
	Hauling	0.4892	19.2002	3.1763	0.0515	2.9736	0.7874
	Vendor	0	0	0	0	0	0
	Worker	0.0153	9.91E-03	0.1019	3.00E-04	0.0311	8.45E-03
	Total	**0.5045**	**19.2101**	**3.2782**	**0.0518**	**3.0048**	**0.7958**
TOTAL		***0.67***	***21.80***	***8.51***	***0.06***	***3.06***	***0.03***
Onsite	**2021**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.04	0.01
	Off-Road	0.16	2.59	5.23	0.01	0.02	0.02
	Total	**0.16**	**2.59**	**5.23**	**0.01**	**0.06**	**0.02**
Offsite							
	Hauling	0.49	19.42	3.18	0.05	2.97	0.79
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.12	0.00	0.03	0.01
	Total	**0.50**	**19.43**	**3.28**	**0.05**	**3.00**	**0.79**
TOTAL		***0.67***	***22.02***	***8.51***	***0.06***	***3.06***	***0.82***
P1 Rough Grading & P1 Rough Grading Haul		**2.64**	**51.70**	**67.12**	**0.18**	**12.24**	**4.32**

Offsite Utility Trenching							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2021 Summer**						
	Off-Road	1.2876	12.4011	11.4398	0.0211	0.6037	0.5707
	Total	**1.2876**	**12.4011**	**11.4398**	**0.0211**	**0.6037**	**0.5707**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0155	0.5786	0.1089	1.62E-03	0.037	0.0114
	Worker	0.1524	0.0942	1.242	3.30E-03	0.3112	0.0845
	Total	**0.168**	**0.6728**	**1.3508**	**4.92E-03**	**0.3482**	**0.0959**
TOTAL		***1.46***	***13.07***	***12.79***	***0.03***	***0.95***	***0.67***
Onsite	**2021 Winter**						
	Off-Road	1.2876	12.4011	11.4398	0.0211	0.6037	0.5707
	Total	**1.2876**	**12.4011**	**11.4398**	**0.0211**	**0.6037**	**0.5707**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0165	0.5725	0.1274	1.56E-03	0.037	0.0114
	Worker	0.1528	0.0991	1.0187	2.96E-03	0.3112	0.0845
	Total	**0.1692**	**0.6716**	**1.146**	**4.52E-03**	**0.3482**	**0.0959**

TOTAL		***1.46***	***13.07***	***12.59***	***0.03***	***0.95***	***0.67***
Onsite	**2021**						
	Off-Road	1.29	12.40	11.44	0.02	0.60	0.57
	Total	**1.29**	**12.40**	**11.44**	**0.02**	**0.60**	**0.57**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.58	0.13	0.00	0.04	0.01
	Worker	0.15	0.10	1.24	0.00	0.31	0.08
	Total	**0.17**	**0.67**	**1.35**	**0.00**	**0.35**	**0.10**
TOTAL		***1.46***	***13.07***	***12.79***	***0.03***	***0.95***	***0.67***
P1 Rough Grading, P1 Rough Grading Haul, & Offsite Trenching		**4.09**	**64.77**	**79.91**	**0.20**	**13.20**	**4.98**

Phase 1 Utility Trenching

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2021**	**Summer**						
	Off-Road		1.3831	14.2849	10.1015	0.0371	0.5265	0.4844
	Total		**1.3831**	**14.2849**	**10.1015**	**0.0371**	**0.5265**	**0.4844**
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.0259	0.9644	0.1815	2.70E-03	0.0616	0.019
	Worker		0.1626	0.1005	1.3248	3.52E-03	0.332	0.0901
	Total		**0.1885**	**1.0649**	**1.5062**	**6.22E-03**	**0.3936**	**0.1091**
TOTAL			***1.57***	***15.35***	***11.61***	***0.04***	***0.92***	***0.59***
Onsite	**2021**	**Winter**						
	Off-Road		1.3831	14.2849	10.1015	0.0371	0.5265	0.4844
	Total		**1.3831**	**14.2849**	**10.1015**	**0.0371**	**0.5265**	**0.4844**
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.0275	0.9541	0.2123	2.59E-03	0.0616	0.0191
	Worker		0.163	0.1057	1.0866	3.15E-03	0.332	0.0901
	Total		**0.1904**	**1.0598**	**1.2989**	**5.74E-03**	**0.3936**	**0.1092**
TOTAL			***1.57***	***15.34***	***11.40***	***0.04***	***0.92***	***0.59***
Onsite	**2021**							
	Off-Road		1.38	14.28	10.10	0.04	0.53	0.48
	Total		**1.38**	**14.28**	**10.10**	**0.04**	**0.53**	**0.48**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.03	0.96	0.21	0.00	0.06	0.02
	Worker		0.16	0.11	1.32	0.00	0.33	0.09
	Total		**0.19**	**1.06**	**1.51**	**0.01**	**0.39**	**0.11**
TOTAL			***1.57***	***15.35***	***11.61***	***0.04***	***0.92***	***0.59***

Phase 1 Building Construction

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2021**	**Summer**						
	Off-Road		1.3723	14.089	9.458	0.0237	0.7267	0.6685
	Total		**1.3723**	**14.089**	**9.458**	**0.0237**	**0.7267**	**0.6685**
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.0311	1.1573	0.2178	3.24E-03	0.0739	0.0228
	Worker		0.3049	0.1884	2.4839	6.59E-03	0.6225	0.1689
	Total		**0.3359**	**1.3457**	**2.7017**	**9.83E-03**	**0.6964**	**0.1918**

TOTAL		***1.71***	***15.43***	***12.16***	***0.03***	***1.42***	***0.86***
Onsite	**2021 Winter**						
Off-Road		1.3723	14.089	9.458	0.0237	0.7267	0.6685
Total		**1.3723**	**14.089**	**9.458**	**0.0237**	**0.7267**	**0.6685**
Offsite							
Hauling		0	0	0	0	0	0
Vendor		0.0329	1.1449	0.2547	3.11E-03	0.074	0.0229
Worker		0.3055	0.1982	2.0374	5.91E-03	0.6225	0.1689
Total		**0.3385**	**1.3431**	**2.2921**	**9.02E-03**	**0.6964**	**0.1918**
TOTAL		***1.71***	***15.43***	***11.75***	***0.03***	***1.42***	***0.86***
Onsite	**2021**						
Off-Road		1.37	14.09	9.46	0.02	0.73	0.67
Total		**1.37**	**14.09**	**9.46**	**0.02**	**0.73**	**0.67**
Offsite							
Hauling		0.00	0.00	0.00	0.00	0.00	0.00
Vendor		0.03	1.16	0.25	0.00	0.07	0.02
Worker		0.31	0.20	2.48	0.01	0.62	0.17
Total		**0.34**	**1.35**	**2.70**	**0.01**	**0.70**	**0.19**
TOTAL		***1.71***	***15.43***	***12.16***	***0.03***	***1.42***	***0.86***
P1 Rough Grading Haul, Offsite Trenching, P1 Trenching, & P1 Building Construction		**5.41**	**65.88**	**45.06**	**0.17**	**6.36**	**2.94**
Offsite Trenching, P1 Trenching, & P1 Building Construction		**4.74**	**43.86**	**36.56**	**0.10**	**3.30**	**2.12**
Offsite Trenching & P1 Building Construction		**3.17**	**28.51**	**24.95**	**0.06**	**2.38**	**1.53**
Phase 1 Fine Grading							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2021 Summer**						
Fugitive Dust						0.9067	0.0979
Off-Road		1.9467	23.9536	8.3256	0.0267	0.862	0.7931
Total		**1.9467**	**23.9536**	**8.3256**	**0.0267**	**1.7688**	**0.891**
Offsite							
Hauling		0	0	0	0	0	0
Vendor		0.0207	0.7715	0.1452	2.16E-03	0.0493	0.0152
Worker		0.1829	0.1131	1.4903	3.96E-03	0.3735	0.1014
Total		**0.2036**	**0.8846**	**1.6355**	**6.12E-03**	**0.4228**	**0.1166**
TOTAL		***2.15***	***24.84***	***9.96***	***0.03***	***2.19***	***1.01***
Onsite	**2021 Winter**						
Fugitive Dust						0.9067	0.0979
Off-Road		1.9467	23.9536	8.3256	0.0267	0.862	0.7931
Total		**1.9467**	**23.9536**	**8.3256**	**0.0267**	**1.7688**	**0.891**
Offsite							
Hauling		0	0	0	0	0	0
Vendor		0.022	0.7633	0.1698	2.07E-03	0.0493	0.0153
Worker		0.1833	0.1189	1.2224	3.55E-03	0.3735	0.1014
Total		**0.2053**	**0.8822**	**1.3922**	**5.62E-03**	**0.4228**	**0.1166**
TOTAL		***2.15***	***24.84***	***9.72***	***0.03***	***2.19***	***0.99***
Onsite	**2021**						
Fugitive Dust		0.00	0.00	0.00	0.00	0.91	0.10
Off-Road		1.95	23.95	8.33	0.03	0.86	0.79
Total		**1.95**	**23.95**	**8.33**	**0.03**	**1.77**	**0.89**

Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.77	0.17	0.00	0.05	0.02
	Worker	0.18	0.12	1.49	0.00	0.37	0.10
	Total	**0.21**	**0.88**	**1.64**	**0.01**	**0.42**	**0.12**
TOTAL		***2.15***	***24.84***	***9.96***	***0.03***	***2.19***	***1.01***
Offsite Trenching, P1 Building Construction, & P1 Fine Grading		**5.32**	**53.35**	**34.91**	**0.09**	**4.57**	**2.53**

Phase 1 Finishing/Landscaping

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2021 Summer**						
	Off-Road	0.6771	7.0827	6.5087	0.0143	0.3135	0.2884
	Total	**0.6771**	**7.0827**	**6.5087**	**0.0143**	**0.3135**	**0.2884**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0155	0.5786	0.1089	1.62E-03	0.037	0.0114
	Worker	0.1016	0.0628	0.828	2.20E-03	0.2075	0.0563
	Total	**0.1172**	**0.6414**	**0.9369**	**3.82E-03**	**0.2445**	**0.0677**
TOTAL		***0.79***	***7.72***	***7.45***	***0.02***	***0.56***	***0.36***
Onsite	**2021 Winter**						
	Off-Road	0.6771	7.0827	6.5087	0.0143	0.3135	0.2884
	Total	**0.6771**	**7.0827**	**6.5087**	**0.0143**	**0.3135**	**0.2884**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0165	0.5725	0.1274	1.56E-03	0.037	0.0114
	Worker	0.1018	0.0661	0.6791	1.97E-03	0.2075	0.0563
	Total	**0.1183**	**0.6385**	**0.8065**	**3.53E-03**	**0.2445**	**0.0678**
TOTAL		***0.80***	***7.72***	***7.32***	***0.02***	***0.56***	***0.36***
Onsite	**2021**						
	Off-Road	0.68	7.08	6.51	0.01	0.31	0.29
	Total	**0.68**	**7.08**	**6.51**	**0.01**	**0.31**	**0.29**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.58	0.13	0.00	0.04	0.01
	Worker	0.10	0.07	0.83	0.00	0.21	0.06
	Total	**0.12**	**0.64**	**0.94**	**0.00**	**0.24**	**0.07**
TOTAL		***0.80***	***7.72***	***7.45***	***0.02***	***0.56***	***0.36***
Offsite Trenching, P1 Building Construction, & P1 Finishing/Landscaping		**3.96**	**36.23**	**32.40**	**0.08**	**2.93**	**1.88**

Offsite Fine Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2021 Summer**						
	Fugitive Dust					0	0
	Off-Road	0.9374	7.4341	8.6085	0.0141	0.4278	0.4189
	Total	**0.9374**	**7.4341**	**8.6085**	**0.0141**	**0.4278**	**0.4189**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0155	0.5786	0.1089	1.62E-03	0.037	0.0114
	Worker	0.1524	0.0942	1.242	3.30E-03	0.3112	0.0845
	Total	**0.168**	**0.6728**	**1.3508**	**4.92E-03**	**0.3482**	**0.0959**
TOTAL		***1.11***	***8.11***	***9.96***	***0.02***	***0.78***	***0.51***

Onsite		**2021 Winter**					
	Fugitive Dust					0	0
	Off-Road	0.9374	7.4341	8.6085	0.0141	0.4278	0.4189
	Total	**0.9374**	**7.4341**	**8.6085**	**0.0141**	**0.4278**	**0.4189**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0165	0.5725	0.1274	1.56E-03	0.037	0.0114
	Worker	0.1528	0.0991	1.0187	2.96E-03	0.3112	0.0845
	Total	**0.1692**	**0.6716**	**1.146**	**4.52E-03**	**0.3482**	**0.0959**
TOTAL		***1.11***	***8.11***	***9.75***	***0.02***	***0.78***	***0.50***
Onsite		**2021**					
	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.94	7.43	8.61	0.01	0.43	0.42
	Total	**0.94**	**7.43**	**8.61**	**0.01**	**0.43**	**0.42**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.58	0.13	0.00	0.04	0.01
	Worker	0.15	0.10	1.24	0.00	0.31	0.08
	Total	**0.17**	**0.67**	**1.35**	**0.00**	**0.35**	**0.10**
TOTAL		***1.11***	***8.11***	***9.96***	***0.02***	***0.78***	***0.51***

Phase 1 Asphalt Paving

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2021 Summer**					
	Off-Road	1.1648	13.6396	8.7004	0.0183	0.5675	0.5221
	Paving	7.3819				0	0
	Total	**8.5466**	**13.6396**	**8.7004**	**0.0183**	**0.5675**	**0.5221**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.3105	11.5725	2.1776	0.0324	0.7391	0.2282
	Worker	0.1016	0.0628	0.828	2.20E-03	0.2075	0.0563
	Total	**0.4122**	**11.6353**	**3.0055**	**0.0346**	**0.9466**	**0.2845**
TOTAL		***8.96***	***25.27***	***11.71***	***0.05***	***1.51***	***0.81***
Onsite		**2021 Winter**					
	Off-Road	1.1648	13.6396	8.7004	0.0183	0.5675	0.5221
	Paving	7.3819				0	0
	Total	**8.5466**	**13.6396**	**8.7004**	**0.0183**	**0.5675**	**0.5221**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.3294	11.4493	2.5472	0.0311	0.7397	0.2287
	Worker	0.1018	0.0661	0.6791	1.97E-03	0.2075	0.0563
	Total	**0.4312**	**11.5154**	**3.2263**	**0.0331**	**0.9472**	**0.285**
TOTAL		***8.98***	***25.16***	***11.93***	***0.05***	***1.51***	***0.81***
Onsite		**2021**					
	Off-Road	1.16	13.64	8.70	0.02	0.57	0.52
	Paving	7.38	0.00	0.00	0.00	0.00	0.00
	Total	**8.55**	**13.64**	**8.70**	**0.02**	**0.57**	**0.52**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.33	11.57	2.55	0.03	0.74	0.23
	Worker	0.10	0.07	0.83	0.00	0.21	0.06
	Total	**0.43**	**11.64**	**3.23**	**0.03**	**0.95**	**0.29**
TOTAL		***8.98***	***25.27***	***11.93***	***0.05***	***1.51***	***0.81***

Offsite Trenching, P1 Building Construction, P1 Finishing/Landscaping, Offsite Fine Grade, & P1 Asphalt Pave	**14.05**	**69.61**	**54.28**	**0.15**	**5.22**	**3.21**
P1 Building Construction, P1 Finishing/Landscaping, Offsite Fine Grade, & P1 Asphalt Pave	**12.59**	**56.54**	**41.49**	**0.12**	**4.27**	**2.54**
P1 Building Construction, P1 Finishing/Landscaping, & Offsite Fine Grade	**3.61**	**31.27**	**29.56**	**0.07**	**2.76**	**1.73**

Phase 1 Architectural Coating

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2021 Summer**						
Archit. Coating		60.4722				0	0
Off-Road		0.2189	1.5268	1.8176	2.97E-03	0.0941	0.0941
Total		**60.6911**	**1.5268**	**1.8176**	**2.97E-03**	**0.0941**	**0.0941**
Offsite							
Hauling		0	0	0	0	0	0
Vendor		0	0	0	0	0	0
Worker		0.061	0.0377	0.4968	1.32E-03	0.1245	0.0338
Total		**0.061**	**0.0377**	**0.4968**	**1.32E-03**	**0.1245**	**0.0338**
TOTAL		***60.75***	***1.56***	***2.31***	***0.00***	***0.22***	***0.13***
Onsite	**2021 Winter**						
Archit. Coating		60.4722				0	0
Off-Road		0.2189	1.5268	1.8176	2.97E-03	0.0941	0.0941
Total		**60.6911**	**1.5268**	**1.8176**	**2.97E-03**	**0.0941**	**0.0941**
Offsite							
Hauling		0	0	0	0	0	0
Vendor		0	0	0	0	0	0
Worker		0.0611	0.0396	0.4075	1.18E-03	0.1245	0.0338
Total		**0.0611**	**0.0396**	**0.4075**	**1.18E-03**	**0.1245**	**0.0338**
TOTAL		***60.75***	***1.57***	***2.23***	***0.00***	***0.22***	***0.13***
Onsite	**2021**						
Archit. Coating		60.47	0.00	0.00	0.00	0.00	0.00
Off-Road		0.22	1.53	1.82	0.00	0.09	0.09
Total		**60.69**	**1.53**	**1.82**	**0.00**	**0.09**	**0.09**
Offsite							
Hauling		0.00	0.00	0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00	0.00	0.00
Worker		0.06	0.04	0.50	0.00	0.12	0.03
Total		**0.06**	**0.04**	**0.50**	**0.00**	**0.12**	**0.03**
TOTAL		***60.75***	***1.57***	***2.31***	***0.00***	***0.22***	***0.13***

P1 Building Construction, P1 Finishing/Landscaping, Offsite Fine Grade, P1 Coating	**64.37**	**32.83**	**31.88**	**0.07**	**2.98**	**1.86**
P1 Building Construction, Offsite Fine Grade, P1 Coating	**63.57**	**25.11**	**24.43**	**0.06**	**2.42**	**1.50**

Offsite Asphalt Paving

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2021 Summer**						
Off-Road		0.6298	6.1569	6.6106	0.01	0.3454	0.3189
Paving		1.5744				0	0
Total		**2.2042**	**6.1569**	**6.6106**	**0.01**	**0.3454**	**0.3189**

Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0311	1.1573	0.2178	3.24E-03	0.0739	0.0228
	Worker	0.1524	0.0942	1.242	3.30E-03	0.3112	0.0845
	Total	**0.1835**	**1.2515**	**1.4597**	**6.54E-03**	**0.3852**	**0.1073**
TOTAL		***2.39***	***7.41***	***8.07***	***0.02***	***0.73***	***0.43***
Onsite	**2021 Winter**						
	Off-Road	0.6298	6.1569	6.6106	0.01	0.3454	0.3189
	Paving	1.5744				0	0
	Total	**2.2042**	**6.1569**	**6.6106**	**0.01**	**0.3454**	**0.3189**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0329	1.1449	0.2547	3.11E-03	0.074	0.0229
	Worker	0.1528	0.0991	1.0187	2.96E-03	0.3112	0.0845
	Total	**0.1857**	**1.244**	**1.2734**	**6.07E-03**	**0.3852**	**0.1073**
TOTAL		***2.39***	***7.40***	***7.88***	***0.02***	***0.73***	***0.43***
Onsite	**2021**						
	Off-Road	0.63	6.16	6.61	0.01	0.35	0.32
	Paving	1.57	0.00	0.00	0.00	0.00	0.00
	Total	**2.20**	**6.16**	**6.61**	**0.01**	**0.35**	**0.32**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.03	1.16	0.25	0.00	0.07	0.02
	Worker	0.15	0.10	1.24	0.00	0.31	0.08
	Total	**0.19**	**1.25**	**1.46**	**0.01**	**0.39**	**0.11**
TOTAL		***2.39***	***7.41***	***8.07***	***0.02***	***0.73***	***0.43***

Offsite Finishing/Landscaping

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2021 Summer**						
	Off-Road	0.6771	7.0827	6.5087	0.0143	0.3135	0.2884
	Total	**0.6771**	**7.0827**	**6.5087**	**0.0143**	**0.3135**	**0.2884**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.1524	0.0942	1.242	3.30E-03	0.3112	0.0845
	Total	**0.1524**	**0.0942**	**1.242**	**3.30E-03**	**0.3112**	**0.0845**
TOTAL		***0.83***	***7.18***	***7.75***	***0.02***	***0.62***	***0.37***
Onsite	**2021 Winter**						
	Off-Road	0.6771	7.0827	6.5087	0.0143	0.3135	0.2884
	Total	**0.6771**	**7.0827**	**6.5087**	**0.0143**	**0.3135**	**0.2884**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.1528	0.0991	1.0187	2.96E-03	0.3112	0.0845
	Total	**0.1528**	**0.0991**	**1.0187**	**2.96E-03**	**0.3112**	**0.0845**
TOTAL		***0.83***	***7.18***	***7.53***	***0.02***	***0.62***	***0.37***
Onsite	**2021**						
	Off-Road	0.68	7.08	6.51	0.01	0.31	0.29
	Total	**0.68**	**7.08**	**6.51**	**0.01**	**0.31**	**0.29**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00

	Worker	0.15	0.10	1.24	0.00	0.31	0.08
	Total	**0.15**	**0.10**	**1.24**	**0.00**	**0.31**	**0.08**
TOTAL		***0.83***	***7.18***	***7.75***	***0.02***	***0.62***	***0.37***
P1 Building Construction, P1 Coating, Offsite Paving, & Offsite Finishing/Landscaping		**65.68**	**31.59**	**30.30**	**0.07**	**3.00**	**1.79**
P1 Building Construction, Offsite Paving, & Offsite Finishing/Landscaping		**4.93**	**30.02**	**27.98**	**0.07**	**2.78**	**1.66**
P1 Building Construction & Offsite Finishing/Landscaping		**2.54**	**22.62**	**19.91**	**0.05**	**2.05**	**1.23**
Onsite	**2022 Summer**						
	Off-Road	0.6043	5.9747	6.4425	0.0143	0.2609	0.24
	Total	**0.6043**	**5.9747**	**6.4425**	**0.0143**	**0.2609**	**0.24**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.1424	0.0847	1.1409	3.18E-03	0.3112	0.0844
	Total	**0.1424**	**0.0847**	**1.1409**	**3.18E-03**	**0.3112**	**0.0844**
TOTAL		***0.75***	***6.06***	***7.58***	***0.02***	***0.57***	***0.32***
Onsite	**2022 Winter**						
	Off-Road	0.6043	5.9747	6.4425	0.0143	0.2609	0.24
	Total	**0.6043**	**5.9747**	**6.4425**	**0.0143**	**0.2609**	**0.24**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.143	0.0891	0.9343	2.85E-03	0.3112	0.0844
	Total	**0.143**	**0.0891**	**0.9343**	**2.85E-03**	**0.3112**	**0.0844**
TOTAL		***0.75***	***6.06***	***7.38***	***0.02***	***0.57***	***0.32***
Onsite	**2022**						
	Off-Road	0.60	5.97	6.44	0.01	0.26	0.24
	Total	**0.60**	**5.97**	**6.44**	**0.01**	**0.26**	**0.24**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.14	0.09	1.14	0.00	0.31	0.08
	Total	**0.14**	**0.09**	**1.14**	**0.00**	**0.31**	**0.08**
TOTAL		***0.75***	***6.06***	***7.58***	***0.02***	***0.57***	***0.32***

Phase 2 Rough Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**						
	Fugitive Dust					8.5491	3.1974
	Off-Road	6.4967	72.1659	41.9462	0.107	2.8456	2.6179
	Total	**6.4967**	**72.1659**	**41.9462**	**0.107**	**11.3947**	**5.8153**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0338	1.2805	0.2349	3.75E-03	0.0859	0.0263
	Worker	0.1708	0.1017	1.3691	3.81E-03	0.3734	0.1013
	Total	**0.2046**	**1.3821**	**1.604**	**7.56E-03**	**0.4593**	**0.1276**
TOTAL		***6.70***	***73.55***	***43.55***	***0.11***	***11.85***	***5.94***
Onsite	**2022 Winter**						
	Fugitive Dust					8.5491	3.1974

	Off-Road	6.4967	72.1659	41.9462	0.107	2.8456	2.6179
	Total	**6.4967**	**72.1659**	**41.9462**	**0.107**	**11.3947**	**5.8153**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0359	1.2654	0.2759	3.60E-03	0.0859	0.0263
	Worker	0.1716	0.1069	1.1211	3.42E-03	0.3734	0.1013
	Total	**0.2075**	**1.3723**	**1.397**	**7.02E-03**	**0.4593**	**0.1276**
TOTAL		***6.70***	***73.54***	***43.34***	***0.11***	***11.85***	***5.92***
Onsite	**2022**						
	Fugitive Dust	0.00	0.00	0.00	0.00	8.55	3.20
	Off-Road	6.50	72.17	41.95	0.11	2.85	2.62
	Total	**6.50**	**72.17**	**41.95**	**0.11**	**11.39**	**5.82**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.04	1.28	0.28	0.00	0.09	0.03
	Worker	0.17	0.11	1.37	0.00	0.37	0.10
	Total	**0.21**	**1.38**	**1.60**	**0.01**	**0.46**	**0.13**
TOTAL		***6.70***	***73.55***	***43.55***	***0.11***	***11.85***	***5.94***

Phase 2 Rough Grading Soil Haul

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**						
	Fugitive Dust					0.0382	5.78E-03
	Off-Road	0.2572	2.0908	2.1338	9.76E-03	0.0702	0.0646
	Total	**0.2572**	**2.0908**	**2.1338**	**9.76E-03**	**0.1084**	**0.0704**
Offsite							
	Hauling	0.4234	17.7392	2.447	0.0521	0.9523	0.2845
	Vendor	0	0	0	0	0	0
	Worker	0.0142	8.47E-03	0.1141	3.20E-04	0.0311	8.44E-03
	Total	**0.4376**	**17.7477**	**2.5611**	**0.0524**	**0.9834**	**0.2929**
TOTAL		***0.69***	***19.84***	***4.69***	***0.06***	***1.09***	***0.36***
Onsite	**2022 Winter**						
	Fugitive Dust					0.0382	5.78E-03
	Off-Road	0.2572	2.0908	2.1338	9.76E-03	0.0702	0.0646
	Total	**0.2572**	**2.0908**	**2.1338**	**9.76E-03**	**0.1084**	**0.0704**
Offsite							
	Hauling	0.4525	17.5093	2.994	0.0498	0.9532	0.2854
	Vendor	0	0	0	0	0	0
	Worker	0.0143	8.91E-03	0.0934	2.80E-04	0.0311	8.44E-03
	Total	**0.4668**	**17.5183**	**3.0874**	**0.0501**	**0.9843**	**0.2938**
TOTAL		***0.72***	***19.61***	***5.22***	***0.06***	***1.09***	***0.08***
Onsite	**2022**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.04	0.01
	Off-Road	0.26	2.09	2.13	0.01	0.07	0.06
	Total	**0.26**	**2.09**	**2.13**	**0.01**	**0.11**	**0.07**
Offsite							
	Hauling	0.45	17.74	2.99	0.05	0.95	0.29
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.01	0.01	0.11	0.00	0.03	0.01
	Total	**0.47**	**17.75**	**3.09**	**0.05**	**0.98**	**0.29**
TOTAL		***0.72***	***19.84***	***5.22***	***0.06***	***1.09***	***0.36***
Offsite Finishing/Landscaping, P2 Rough Grading, & P2 Rough Grading Haul		**8.18**	**99.45**	**56.35**	**0.19**	**13.52**	**6.63**

Offsite Finishing/Landscaping & P2 Rough Grading							
Haul		**1.47**	**25.90**	**12.80**	**0.08**	**1.66**	**0.69**

Phase 2 Utility Trenching

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**						
	Off-Road	1.2337	11.6192	9.9028	0.0371	0.428	0.3938
	Total	**1.2337**	**11.6192**	**9.9028**	**0.0371**	**0.428**	**0.3938**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0241	0.9146	0.1678	2.68E-03	0.0613	0.0188
	Worker	0.1518	0.0904	1.217	3.39E-03	0.3319	0.09
	Total	**0.176**	**1.005**	**1.3848**	**6.07E-03**	**0.3933**	**0.1088**
TOTAL		***1.41***	***12.62***	***11.29***	***0.04***	***0.82***	***0.50***
Onsite	**2022 Winter**						
	Off-Road	1.2337	11.6192	9.9028	0.0371	0.428	0.3938
	Total	**1.2337**	**11.6192**	**9.9028**	**0.0371**	**0.428**	**0.3938**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0256	0.9039	0.1971	2.57E-03	0.0614	0.0188
	Worker	0.1526	0.095	0.9965	3.04E-03	0.3319	0.09
	Total	**0.1782**	**0.9989**	**1.1936**	**5.61E-03**	**0.3933**	**0.1088**
TOTAL		***1.41***	***12.62***	***11.10***	***0.04***	***0.82***	***0.50***
Onsite	**2022**						
	Off-Road	1.23	11.62	9.90	0.04	0.43	0.39
	Total	**1.23**	**11.62**	**9.90**	**0.04**	**0.43**	**0.39**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.03	0.91	0.20	0.00	0.06	0.02
	Worker	0.15	0.10	1.22	0.00	0.33	0.09
	Total	**0.18**	**1.01**	**1.38**	**0.01**	**0.39**	**0.11**
TOTAL		***1.41***	***12.62***	***11.29***	***0.04***	***0.82***	***0.50***

Phase 2 Building Construction

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**						
	Off-Road	1.7844	17.7854	12.8535	0.028	0.9547	0.8783
	Total	**1.7844**	**17.7854**	**12.8535**	**0.028**	**0.9547**	**0.8783**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	4.82E-03	0.1829	0.0336	5.40E-04	0.0123	3.75E-03
	Worker	0.2847	0.1694	2.2818	6.35E-03	0.6224	0.1688
	Total	**0.2895**	**0.3524**	**2.3154**	**6.89E-03**	**0.6346**	**0.1726**
TOTAL		***2.07***	***18.14***	***15.17***	***0.03***	***1.59***	***1.05***
Onsite	**2022 Winter**						
	Off-Road	1.7844	17.7854	12.8535	0.028	0.9547	0.8783
	Total	**1.7844**	**17.7854**	**12.8535**	**0.028**	**0.9547**	**0.8783**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	5.12E-03	0.1808	0.0394	5.10E-04	0.0123	3.76E-03
	Worker	0.2861	0.1781	1.8685	5.70E-03	0.6224	0.1688
	Total	**0.2912**	**0.3589**	**1.9079**	**6.21E-03**	**0.6346**	**0.1726**
TOTAL		***2.08***	***18.14***	***14.76***	***0.03***	***1.59***	***1.05***

Onsite	**2022**						
	Off-Road	1.78	17.79	12.85	0.03	0.95	0.88
	Total	**1.78**	**17.79**	**12.85**	**0.03**	**0.95**	**0.88**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.18	0.04	0.00	0.01	0.00
	Worker	0.29	0.18	2.28	0.01	0.62	0.17
	Total	**0.29**	**0.36**	**2.32**	**0.01**	**0.63**	**0.17**
TOTAL		***2.08***	***18.14***	***15.17***	***0.03***	***1.59***	***1.05***
Offsite Finishing/Landscaping, P2 Rough Grading Haul, P2 Utility Trenching, & P2 Building Construction		**4.96**	**56.67**	**39.26**	**0.16**	**4.08**	**2.24**
Offsite Finishing/Landscaping, P2 Utility Trenching, & P2 Building Construction		**4.23**	**36.83**	**34.04**	**0.10**	**2.98**	**1.88**
P2 Utility Trenching, & P2 Building Construction		**3.49**	**30.77**	**26.46**	**0.08**	**2.41**	**1.55**

Phase 2 Fine Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**						
	Fugitive Dust					0.9067	0.0979
	Off-Road	1.75	20.8377	7.9233	0.0267	0.7507	0.6907
	Total	**1.75**	**20.8377**	**7.9233**	**0.0267**	**1.6574**	**0.7886**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0193	0.7317	0.1342	2.14E-03	0.0491	0.015
	Worker	0.1708	0.1017	1.3691	3.81E-03	0.3734	0.1013
	Total	**0.1901**	**0.8334**	**1.5033**	**5.95E-03**	**0.4225**	**0.1163**
TOTAL		***1.94***	***21.67***	***9.43***	***0.03***	***2.08***	***0.90***
Onsite	**2022 Winter**						
	Fugitive Dust					0.9067	0.0979
	Off-Road	1.75	20.8377	7.9233	0.0267	0.7507	0.6907
	Total	**1.75**	**20.8377**	**7.9233**	**0.0267**	**1.6574**	**0.7886**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0205	0.7231	0.1576	2.06E-03	0.0491	0.015
	Worker	0.1716	0.1069	1.1211	3.42E-03	0.3734	0.1013
	Total	**0.1921**	**0.83**	**1.2788**	**5.48E-03**	**0.4225**	**0.1163**
TOTAL		***1.94***	***21.67***	***9.20***	***0.03***	***2.08***	***0.89***
Onsite	**2022**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.91	0.10
	Off-Road	1.75	20.84	7.92	0.03	0.75	0.69
	Total	**1.75**	**20.84**	**7.92**	**0.03**	**1.66**	**0.79**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.73	0.16	0.00	0.05	0.02
	Worker	0.17	0.11	1.37	0.00	0.37	0.10
	Total	**0.19**	**0.83**	**1.50**	**0.01**	**0.42**	**0.12**
TOTAL		***1.94***	***21.67***	***9.43***	***0.03***	***2.08***	***0.90***
P2 Building Construction & P2 Fine Grading		**4.02**	**39.82**	**24.60**	**0.07**	**3.67**	**1.96**

Phase 2 Finishing/Landscaping

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total

Onsite		**2022 Summer**					
	Off-Road	0.6043	5.9747	6.4425	0.0143	0.2609	0.24
	Total	**0.6043**	**5.9747**	**6.4425**	**0.0143**	**0.2609**	**0.24**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0145	0.5488	0.1007	1.61E-03	0.0368	0.0113
	Worker	0.0949	0.0565	0.7606	2.12E-03	0.2075	0.0563
	Total	**0.1094**	**0.6053**	**0.8613**	**3.73E-03**	**0.2443**	**0.0675**
TOTAL		***0.71***	***6.58***	***7.30***	***0.02***	***0.51***	***0.31***
Onsite		**2022 Winter**					
	Off-Road	0.6043	5.9747	6.4425	0.0143	0.2609	0.24
	Total	**0.6043**	**5.9747**	**6.4425**	**0.0143**	**0.2609**	**0.24**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0154	0.5423	0.1182	1.54E-03	0.0368	0.0113
	Worker	0.0954	0.0594	0.6228	1.90E-03	0.2075	0.0563
	Total	**0.1107**	**0.6017**	**0.7411**	**3.44E-03**	**0.2443**	**0.0676**
TOTAL		***0.72***	***6.58***	***7.18***	***0.02***	***0.51***	***0.31***
Onsite		**2022**					
	Off-Road	0.60	5.97	6.44	0.01	0.26	0.24
	Total	**0.60**	**5.97**	**6.44**	**0.01**	**0.26**	**0.24**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.55	0.12	0.00	0.04	0.01
	Worker	0.10	0.06	0.76	0.00	0.21	0.06
	Total	**0.11**	**0.61**	**0.86**	**0.00**	**0.24**	**0.07**
TOTAL		***0.72***	***6.58***	***7.30***	***0.02***	***0.51***	***0.31***

Phase 2 Architectural Coating

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022 Summer**					
	Archit. Coating	47.4065				0	0
	Off-Road	0.2045	1.4085	1.8136	2.97E-03	0.0817	0.0817
	Total	**47.6111**	**1.4085**	**1.8136**	**2.97E-03**	**0.0817**	**0.0817**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0569	0.0339	0.4564	1.27E-03	0.1245	0.0338
	Total	**0.0569**	**0.0339**	**0.4564**	**1.27E-03**	**0.1245**	**0.0338**
TOTAL		***47.67***	***1.44***	***2.27***	***0.00***	***0.21***	***0.12***
Onsite		**2022 Winter**					
	Archit. Coating	47.4065				0	0
	Off-Road	0.2045	1.4085	1.8136	2.97E-03	0.0817	0.0817
	Total	**47.6111**	**1.4085**	**1.8136**	**2.97E-03**	**0.0817**	**0.0817**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0572	0.0356	0.3737	1.14E-03	0.1245	0.0338
	Total	**0.0572**	**0.0356**	**0.3737**	**1.14E-03**	**0.1245**	**0.0338**
TOTAL		***47.67***	***1.44***	***2.19***	***0.00***	***0.21***	***0.12***
Onsite		**2022**					
	Archit. Coating	47.41	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.20	1.41	1.81	0.00	0.08	0.08

	Total	**47.61**	**1.41**	**1.81**	**0.00**	**0.08**	**0.08**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.06	0.04	0.46	0.00	0.12	0.03
	Total	**0.06**	**0.04**	**0.46**	**0.00**	**0.12**	**0.03**
TOTAL		***47.67***	***1.44***	***2.27***	***0.00***	***0.21***	***0.12***
P2 Building Construction, P2 Finish/Landscape, & P2 Coating		**50.46**	**26.17**	**24.74**	**0.06**	**2.30**	**1.47**

Phase 2 Asphalt Paving

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**						
	Off-Road	1.0321	11.8577	8.5871	0.0183	0.4823	0.4437
	Paving	5.0828				0	0
	Total	**6.1149**	**11.8577**	**8.5871**	**0.0183**	**0.4823**	**0.4437**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.2507	9.5121	1.7449	0.0278	0.6378	0.1951
	Worker	0.0949	0.0565	0.7606	2.12E-03	0.2075	0.0563
	Total	**0.3456**	**9.5685**	**2.5055**	**0.0299**	**0.8453**	**0.2514**
TOTAL		***6.46***	***21.43***	***11.09***	***0.05***	***1.33***	***0.70***
Onsite	**2022 Winter**						
	Off-Road	1.0321	11.8577	8.5871	0.0183	0.4823	0.4437
	Paving	5.0828				0	0
	Total	**6.1149**	**11.8577**	**8.5871**	**0.0183**	**0.4823**	**0.4437**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.2663	9.4002	2.0494	0.0267	0.6383	0.1955
	Worker	0.0954	0.0594	0.6228	1.90E-03	0.2075	0.0563
	Total	**0.3616**	**9.4596**	**2.6722**	**0.0286**	**0.8457**	**0.2518**
TOTAL		***6.48***	***21.32***	***11.26***	***0.05***	***1.33***	***0.70***
Onsite	**2022**						
	Off-Road	1.03	11.86	8.59	0.02	0.48	0.44
	Paving	5.08	0.00	0.00	0.00	0.00	0.00
	Total	**6.11**	**11.86**	**8.59**	**0.02**	**0.48**	**0.44**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.27	9.51	2.05	0.03	0.64	0.20
	Worker	0.10	0.06	0.76	0.00	0.21	0.06
	Total	**0.36**	**9.57**	**2.67**	**0.03**	**0.85**	**0.25**
TOTAL		***6.48***	***21.43***	***11.26***	***0.05***	***1.33***	***0.70***
P2 Building Construction, P2 Finish/Landscape, P2 Coating, & P2 Paving		**56.94**	**47.59**	**36.00**	**0.11**	**3.63**	**2.17**
P2 Building Construction & P2 Finish/Landscape		**2.79**	**24.72**	**22.47**	**0.05**	**2.09**	**1.36**
MAX DAILY		**66**	**99**	**80**	**0**	**14**	**7**
Regional Thresholds		**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Thresholds?		No	No	No	No	No	No

Regional Construction Emissions Worksheet - Unmitigated

*CalEEMod, Version 2016.3.2

Offsite Asphalt Demolition

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2020 Summer**				
	Off-Road		13.8938	6.6529	0.7053	0.6503
	Total		**13.8938**	**6.6529**	**0.7053**	**0.6503**
TOTAL			***13.89***	***6.65***	***0.71***	***0.65***
Onsite		**2020 Winter**				
	Off-Road		13.8938	6.6529	0.7053	0.6503
	Total		**13.8938**	**6.6529**	**0.7053**	**0.6503**
TOTAL			***13.89***	***6.65***	***0.71***	***0.65***
Onsite		**2020**				
	Off-Road		13.89	6.65	0.71	0.65
	Total		**13.89**	**6.65**	**0.71**	**0.65**
Offsite						
	Hauling		0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***13.89***	***6.65***	***0.71***	***0.65***

Offsite Demolition Debris Onsite Reprocessing

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2020 Summer**				
	Off-Road		8.0433	4.8197	0.2817	0.2817
	Total		**8.0433**	**4.8197**	**0.2817**	**0.2817**
TOTAL			***8.04***	***4.82***	***0.28***	***0.28***
Onsite		**2020 Winter**				
	Off-Road		8.0433	4.8197	0.2817	0.2817
	Total		**8.0433**	**4.8197**	**0.2817**	**0.2817**
TOTAL			***8.04***	***4.82***	***0.28***	***0.28***
Onsite		**2020**				
	Off-Road		8.04	4.82	0.28	0.28
	Total		**8.04**	**4.82**	**0.28**	**0.28**
Offsite						
	Hauling		0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00

	Total	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***8.04***	***4.82***	***0.28***	***0.28***
Offsite Asphalt Demo & Debris Processing		**21.94**	**11.47**	**0.99**	**0.93**
<=1.00-acre LST		**118**	**863**	**5.00**	**4.00**
Exceed Threshold?		No	No	No	No

Phase 2 Building Demolition

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2020 Summer**				
	Off-Road		13.3787	9.0385	0.4561	0.4196
	Total		**13.3787**	**9.0385**	**0.4561**	**0.4196**
TOTAL			***13.38***	***9.04***	***0.46***	***0.42***
Onsite		**2020 Winter**				
	Off-Road		13.3787	9.0385	0.4561	0.4196
	Total		**13.3787**	**9.0385**	**0.4561**	**0.4196**
TOTAL			***13.38***	***9.04***	***0.46***	***0.42***
Onsite		**2020**				
	Off-Road		13.38	9.04	0.46	0.42
	Total		**13.38**	**9.04**	**0.46**	**0.42**
Offsite						
	Hauling		0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***13.38***	***9.04***	***0.46***	***0.42***

Phase 1 Building Demolition

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2020 Summer**				
	Off-Road		13.3787	9.0385	0.4561	0.4196
	Total		**13.3787**	**9.0385**	**0.4561**	**0.4196**
TOTAL			***13.38***	***9.04***	***0.46***	***0.42***
Onsite		**2020 Winter**				
	Off-Road		13.3787	9.0385	0.4561	0.4196
	Total		**13.3787**	**9.0385**	**0.4561**	**0.4196**
TOTAL			***13.38***	***9.04***	***0.46***	***0.42***

Onsite		**2020**			
	Off-Road	13.38	9.04	0.46	0.42
	Total	**13.38**	**9.04**	**0.46**	**0.42**
Offsite					
	Hauling	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***13.38***	***9.04***	***0.46***	***0.42***

Offsite Asphalt Demo & Debris Processing, P1 Building Demolition, & P2 Building Demolition	**48.69**	**29.55**	**1.90**	**1.77**
3.00-acre LST	**203**	**1,552**	**9.33**	**6.33**
Exceed Threshold?	No	No	No	No
Offsite Asphalt Demo & Debris Processing, & P1 Building Demolition	**35.32**	**20.51**	**1.44**	**1.35**
2.00-acre LST	**170**	**1,232**	**6.00**	**5.00**
Exceed Threshold?	No	No	No	No

Phase 1 Bldg Demolition Debris Haul

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2020 Summer**				
	Fugitive Dust				0.2562	0.0388
	Off-Road		3.1607	2.2149	0.1041	0.0958
	Total		**3.1607**	**2.2149**	**0.3603**	**0.1346**
TOTAL			***3.16***	***2.21***	***0.36***	***0.13***
Onsite		**2020 Winter**				
	Fugitive Dust				0.2562	0.0388
	Off-Road		3.1607	2.2149	0.1041	0.0958
	Total		**3.1607**	**2.2149**	**0.3603**	**0.1346**
TOTAL			***3.16***	***2.21***	***0.36***	***0.13***
Onsite		**2020**				
	Fugitive Dust		0.00	0.00	0.26	0.04
	Off-Road		3.16	2.21	0.10	0.10
	Total		**3.16**	**2.21**	**0.36**	**0.13**
Offsite						
	Hauling		0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***3.16***	***2.21***	***0.36***	***0.13***

Phase 1 Bldg Demolition Debris Onsite Reprocessing

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2020 Summer**				
	Off-Road		8.0433	4.8197	0.2817	0.2817
	Total		**8.0433**	**4.8197**	**0.2817**	**0.2817**
TOTAL			***8.04***	***4.82***	***0.28***	***0.28***
Onsite		**2020 Winter**				
	Off-Road		8.0433	4.8197	0.2817	0.2817
	Total		**8.0433**	**4.8197**	**0.2817**	**0.2817**
TOTAL			***8.04***	***4.82***	***0.28***	***0.28***
Onsite		**2020**				
	Off-Road		8.04	4.82	0.28	0.28
	Total		**8.04**	**4.82**	**0.28**	**0.28**
Offsite						
	Hauling		0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***8.04***	***4.82***	***0.28***	***0.28***

Phase 1 Asphalt Demolition

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2020 Summer**				
	Off-Road		13.3787	9.0385	0.4561	0.4196
	Total		**13.3787**	**9.0385**	**0.4561**	**0.4196**
TOTAL			***13.38***	***9.04***	***0.46***	***0.42***
Onsite		**2020 Winter**				
	Off-Road		13.3787	9.0385	0.4561	0.4196
	Total		**13.3787**	**9.0385**	**0.4561**	**0.4196**
TOTAL			***13.38***	***9.04***	***0.46***	***0.42***

Onsite	**2020**				
	Off-Road	13.38	9.04	0.46	0.42
	Total	**13.38**	**9.04**	**0.46**	**0.42**
Offsite					
	Hauling	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***13.38***	***9.04***	***0.46***	***0.42***
<=1.00-acre LST		**118**	**863**	**5.00**	**4.00**
Exceed Threshold?		No	No	No	No

Phase 2 Building Demolition Debris Haul

			NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2020**	**Summer**				
	Fugitive Dust				0.2562	0.0388
	Off-Road		6.3214	4.4298	0.2083	0.1916
	Total		**6.3214**	**4.4298**	**0.4644**	**0.2304**
TOTAL			***6.32***	***4.43***	***0.46***	***0.23***
Onsite	**2020**	**Winter**				
	Fugitive Dust				0.2562	0.0388
	Off-Road		6.3214	4.4298	0.2083	0.1916
	Total		**6.3214**	**4.4298**	**0.4644**	**0.2304**
TOTAL			***6.32***	***4.43***	***0.46***	***0.23***
Onsite	**2020**					
	Fugitive Dust		0.00	0.00	0.26	0.04
	Off-Road		6.32	4.43	0.21	0.19
	Total		**6.32**	**4.43**	**0.46**	**0.23**
TOTAL			***6.32***	***4.43***	***0.46***	***0.23***

Phase 2 Building Demolition Debris Onsite Reprocessing

			NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2020**	**Summer**				
	Off-Road		8.0433	4.8197	0.2817	0.2817
	Total		**8.0433**	**4.8197**	**0.2817**	**0.2817**
TOTAL			***8.04***	***4.82***	***0.28***	***0.28***

Onsite		**2020 Winter**			
	Off-Road	8.0433	4.8197	0.2817	0.2817
	Total	**8.0433**	**4.8197**	**0.2817**	**0.2817**
TOTAL		***8.04***	***4.82***	***0.28***	***0.28***
Onsite		**2020**			
	Off-Road	8.04	4.82	0.28	0.28
	Total	**8.04**	**4.82**	**0.28**	**0.28**
Offsite					
	Hauling	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***8.04***	***4.82***	***0.28***	***0.28***

Phase 2 Asphalt Demolition

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2020 Summer**				
	Off-Road		13.3787	9.0385	0.4561	0.4196
	Total		**13.3787**	**9.0385**	**0.4561**	**0.4196**
TOTAL			***13.38***	***9.04***	***0.46***	***0.42***
Onsite		**2020 Winter**				
	Off-Road		13.3787	9.0385	0.4561	0.4196
	Total		**13.3787**	**9.0385**	**0.4561**	**0.4196**
TOTAL			***13.38***	***9.04***	***0.46***	***0.42***
Onsite		**2020**				
	Off-Road		13.38	9.04	0.46	0.42
	Total		**13.38**	**9.04**	**0.46**	**0.42**
Offsite						
	Hauling		0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***13.38***	***9.04***	***0.46***	***0.42***

Offsite Asphalt Demo & Debris Processing, P1 Building Demo Debris Haul, P1 Building Demo Debris Processing, P1 Asphalt Demo, P2 Building Demo Dbris haul, P1 Building Demo Debris Processing, P2 Asphalt Demo	**74.26**	**45.83**	**3.29**	**2.70**
3.00-acre LST	**203**	**1,552**	**9.33**	**6.33**
Exceed Threshold?	No	No	No	No

Offsite Asphalt Demo & Debris Processing, P1 Asphalt Demo, & P2 Asphalt Demo		**48.69**	**29.55**	**1.90**	**1.77**
3.00-acre LST		**203**	**1,552**	**9.33**	**6.33**
Exceed Threshold?		No	No	No	No
P1 Asphalt Demo, & P2 Asphalt Demo		**26.76**	**18.08**	**0.91**	**0.84**
2.00-acre LST		**170**	**1,232**	**6.00**	**5.00**
Exceed Threshold?		No	No	No	No
Phase 1 Asphalt Demolition Debris Onsite Reprocessing					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2020**	**Summer**			
	Off-Road	8.0433	4.8197	0.2817	0.2817
	Total	**8.0433**	**4.8197**	**0.2817**	**0.2817**
TOTAL		***8.04***	***4.82***	***0.28***	***0.28***
Onsite	**2020**	**Winter**			
	Off-Road	8.0433	4.8197	0.2817	0.2817
	Total	**8.0433**	**4.8197**	**0.2817**	**0.2817**
TOTAL		***8.04***	***4.82***	***0.28***	***0.28***
Onsite	**2020**				
	Off-Road	8.04	4.82	0.28	0.28
	Total	**8.04**	**4.82**	**0.28**	**0.28**
Offsite					
	Hauling	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***8.04***	***4.82***	***0.28***	***0.28***
P1 Asphalt Demo & P1 Asphalt Demo Debris Processing		**21.42**	**13.86**	**0.74**	**0.70**
<=1.00-acre LST		**118**	**863**	**5.00**	**4.00**
Exceed Threshold?		No	No	No	No

Phase 1 Asphalt Demolition Debris Haul					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2020 Summer				
	Fugitive Dust			0.6434	0.0974
	Off-Road	0	0	0	0
	Total	**0**	**0**	**0.6434**	**0.0974**
TOTAL		***0.00***	***0.00***	***0.64***	***0.10***
Onsite	2020 Winter				
	Fugitive Dust			0.6434	0.0974
	Off-Road	0	0	0	0
	Total	**0**	**0**	**0.6434**	**0.0974**
TOTAL		***0.00***	***0.00***	***0.64***	***0.10***
Onsite	2020				
	Fugitive Dust	0.00	0.00	0.64	0.10
	Off-Road	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.64**	**0.10**
Offsite					
	Hauling	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.64***	***0.10***
P1 Asphalt Demo, P1 Asphalt Demo Debris Processing, & P1 Asphalt Demo Debris Haul		**21.42**	**13.86**	**1.38**	**0.80**
<=1.00-acre LST		**118**	**863**	**5.00**	**4.00**
Exceed Threshold?		No	No	No	No

Phase 2 Asphalt Demolition Debris Haul					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2020 Summer				
	Fugitive Dust			0.6404	0.097
	Off-Road	6.3214	4.4298	0.2083	0.1916
	Total	**6.3214**	**4.4298**	**0.8486**	**0.2886**
TOTAL		***6.32***	***4.43***	***0.85***	***0.29***
Onsite	2020 Winter				
	Fugitive Dust			0.6404	0.097
	Off-Road	6.3214	4.4298	0.2083	0.1916
	Total	**6.3214**	**4.4298**	**0.8486**	**0.2886**
TOTAL		***6.32***	***4.43***	***0.85***	***0.29***

Onsite		**2020**			
	Fugitive Dust	0.00	0.00	0.64	0.10
	Off-Road	6.32	4.43	0.21	0.19
	Total	**6.32**	**4.43**	**0.85**	**0.29**
Offsite					
	Hauling	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***6.32***	***4.43***	***0.85***	***0.29***

Phase 2 Asphalt Demolition Debris Onsite Reprocessing

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2020**	**Summer**			
	Off-Road		8.0433	4.8197	0.2817	0.2817
	Total		**8.0433**	**4.8197**	**0.2817**	**0.2817**
TOTAL			***8.04***	***4.82***	***0.28***	***0.28***
Onsite		**2020**	**Winter**			
	Off-Road		8.0433	4.8197	0.2817	0.2817
	Total		**8.0433**	**4.8197**	**0.2817**	**0.2817**
TOTAL			***8.04***	***4.82***	***0.28***	***0.28***
Onsite		**2020**				
	Off-Road		8.04	4.82	0.28	0.28
	Total		**8.04**	**4.82**	**0.28**	**0.28**
Offsite						
	Hauling		0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***8.04***	***4.82***	***0.28***	***0.28***

P1 Asphalt Demo, P1 Asphalt Demo Debris Processing, P1 Asphalt Demo Debris Haul, P2 Asphalt Demo Debris Haul, & P2 Asphalt Demo Debris Processing	**35.79**	**23.11**	**2.51**	**1.37**
<=1.00-acre LST	**118**	**863**	**5.00**	**4.00**
Exceed Threshold?	No	No	No	No
P1 Asphalt Demo, P1 Asphalt Demo Debris Processing, P1 Asphalt Demo Debris Haul, & P2 Asphalt Demo Debris Processing	**29.47**	**18.68**	**1.66**	**1.08**
<=1.00-acre LST	**118**	**863**	**5.00**	**4.00**

Exceed Threshold?		No	No	No	No

Phase 1 Rough Grading

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2020 Summer**				
	Fugitive Dust			8.5491	3.1974
	Off-Road	93.0209	48.1678	3.6934	3.3979
	Total	**93.0209**	**48.1678**	**12.2425**	**6.5953**
TOTAL		***93.02***	***48.17***	***12.24***	***6.60***
Onsite	**2020 Winter**				
	Fugitive Dust			8.5491	3.1974
	Off-Road	93.0209	48.1678	3.6934	3.3979
	Total	**93.0209**	**48.1678**	**12.2425**	**6.5953**
TOTAL		***93.02***	***48.17***	***12.24***	***6.60***
Onsite	**2020**				
	Fugitive Dust	0.00	0.00	8.55	3.20
	Off-Road	93.02	48.17	3.69	3.40
	Total	**93.02**	**48.17**	**12.24**	**6.60**
Offsite					
	Hauling	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***93.02***	***48.17***	***12.24***	***6.60***
Onsite	**2021 Summer**				
	Fugitive Dust			8.5491	3.1974
	Off-Road	86.1223	45.7719	3.4122	3.1392
	Total	**86.1223**	**45.7719**	**11.9613**	**6.3366**
TOTAL		***86.12***	***45.77***	***11.96***	***6.34***
Onsite	**2021 Winter**				
	Fugitive Dust			8.5491	3.1974
	Off-Road	86.1223	45.7719	3.4122	3.1392
	Total	**86.1223**	**45.7719**	**11.9613**	**6.3366**
TOTAL		***86.12***	***45.77***	***11.96***	***6.34***

Onsite		**2021**			
	Fugitive Dust	0.00	0.00	8.55	3.20
	Off-Road	86.12	45.77	3.41	3.14
	Total	**86.12**	**45.77**	**11.96**	**6.34**
Offsite					
	Hauling	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***86.12***	***45.77***	***11.96***	***6.34***

Phase 1 Rough Grading Soil Haul

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2020 Summer**				
	Fugitive Dust				0.039	5.90E-03
	Off-Road		3.1607	2.2149	0.1041	0.0958
	Total		**3.1607**	**2.2149**	**0.1431**	**0.1017**
TOTAL			***3.16***	***2.21***	***0.14***	***0.10***
Onsite		**2020 Winter**				
	Fugitive Dust				0.039	5.90E-03
	Off-Road		3.1607	2.2149	0.1041	0.0958
	Total		**3.1607**	**2.2149**	**0.1431**	**0.1017**
TOTAL			***3.16***	***2.21***	***0.14***	***0.10***
Onsite		**2020**				
	Fugitive Dust		0.00	0.00	0.04	0.01
	Off-Road		3.16	2.21	0.10	0.10
	Total		**3.16**	**2.21**	**0.14**	**0.10**
Offsite						
	Hauling		0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***3.16***	***2.21***	***0.14***	***0.10***
P1 Rough Grading & P1 Rough Grading Haul			**96.18**	**50.38**	**12.39**	**6.70**
5.00-acre LST			**270**	**2,193**	**15.99**	**9.00**
Exceed Threshold?			No	No	No	No

Onsite		**2021 Summer**			
	Fugitive Dust			0.039	5.90E-03
	Off-Road	2.6776	2.1871	0.0896	0.0825
	Total	**2.6776**	**2.1871**	**0.1286**	**0.0884**
TOTAL		***2.68***	***2.19***	***0.13***	***0.09***
Onsite		**2021 Winter**			
	Fugitive Dust			0.039	5.90E-03
	Off-Road	2.6776	2.1871	0.0896	0.0825
	Total	**2.6776**	**2.1871**	**0.1286**	**0.0884**
TOTAL		***2.68***	***2.19***	***0.13***	***0.09***
Onsite		**2021**			
	Fugitive Dust	0.00	0.00	0.04	0.01
	Off-Road	2.68	2.19	0.09	0.08
	Total	**2.68**	**2.19**	**0.13**	**0.09**
Offsite					
	Hauling	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***2.68***	***2.19***	***0.13***	***0.09***
P1 Rough Grading & P1 Rough Grading Haul		**88.80**	**47.96**	**12.09**	**6.43**
5.00-acre LST		**270**	**2,193**	**15.99**	**9.00**
Exceed Threshold?		No	No	No	No

Offsite Utility Trenching

		NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2021 Summer**			
	Off-Road	12.4011	11.4398	0.6037	0.5707
	Total	**12.4011**	**11.4398**	**0.6037**	**0.5707**
TOTAL		***12.40***	***11.44***	***0.60***	***0.57***
Onsite		**2021 Winter**			
	Off-Road	12.4011	11.4398	0.6037	0.5707
	Total	**12.4011**	**11.4398**	**0.6037**	**0.5707**
TOTAL		***12.40***	***11.44***	***0.60***	***0.57***

Onsite		**2021**			
	Off-Road	12.40	11.44	0.60	0.57
	Total	**12.40**	**11.44**	**0.60**	**0.57**
Offsite					
	Hauling	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***12.40***	***11.44***	***0.60***	***0.57***

P1 Rough Grading, P1 Rough Grading Haul, & Offsite Trenching	**101.20**	**59.40**	**12.69**	**7.00**
5.00-acre LST	**270**	**2,193**	**15.99**	**9.00**
Exceed Threshold?	No	No	No	No

Phase 1 Utility Trenching

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2021**	**Summer**			
	Off-Road		14.2849	10.1015	0.5265	0.4844
	Total		**14.2849**	**10.1015**	**0.5265**	**0.4844**
TOTAL			***14.28***	***10.10***	***0.53***	***0.48***
Onsite		**2021**	**Winter**			
	Off-Road		14.2849	10.1015	0.5265	0.4844
	Total		**14.2849**	**10.1015**	**0.5265**	**0.4844**
TOTAL			***14.28***	***10.10***	***0.53***	***0.48***
Onsite		**2021**				
	Off-Road		14.28	10.10	0.53	0.48
	Total		**14.28**	**10.10**	**0.53**	**0.48**
Offsite						
	Hauling		0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***14.28***	***10.10***	***0.53***	***0.48***

Phase 1 Building Construction

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2021**	**Summer**			
	Off-Road		14.089	9.458	0.7267	0.6685
	Total		**14.089**	**9.458**	**0.7267**	**0.6685**
TOTAL			***14.09***	***9.46***	***0.73***	***0.67***

Onsite		**2021 Winter**			
	Off-Road	14.089	9.458	0.7267	0.6685
	Total	**14.089**	**9.458**	**0.7267**	**0.6685**
TOTAL		***14.09***	***9.46***	***0.73***	***0.67***
Onsite		**2021**			
	Off-Road	14.09	9.46	0.73	0.67
	Total	**14.09**	**9.46**	**0.73**	**0.67**
Offsite					
	Hauling	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***14.09***	***9.46***	***0.73***	***0.67***
P1 Rough Grading Haul, Offsite Trenching, P1 Trenching, & P1 Building Construction		**43.45**	**33.19**	**1.99**	**1.81**
2.00-acre LST		**170**	**1,232**	**6.00**	**5.00**
Exceed Threshold?		No	No	No	No
Offsite Trenching, P1 Trenching, & P1 Building Construction		**40.78**	**31.00**	**1.86**	**1.72**
2.00-acre LST		**170**	**1,232**	**6.00**	**5.00**
Exceed Threshold?		No	No	No	No
Offsite Trenching & P1 Building Construction		**26.49**	**20.90**	**1.33**	**1.24**
<=1.00-acre LST		**118**	**863**	**5.00**	**4.00**
Exceed Threshold?		No	No	No	No
Phase 1 Fine Grading					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2021 Summer**			
	Fugitive Dust			0.9067	0.0979
	Off-Road	23.9536	8.3256	0.862	0.7931
	Total	**23.9536**	**8.3256**	**1.7688**	**0.891**
TOTAL		***23.95***	***8.33***	***1.77***	***0.89***
Onsite		**2021 Winter**			
	Fugitive Dust			0.9067	0.0979
	Off-Road	23.9536	8.3256	0.862	0.7931
	Total	**23.9536**	**8.3256**	**1.7688**	**0.891**
TOTAL		***23.95***	***8.33***	***1.77***	***0.89***

Onsite		**2021**			
	Fugitive Dust	0.00	0.00	0.91	0.10
	Off-Road	23.95	8.33	0.86	0.79
	Total	**23.95**	**8.33**	**1.77**	**0.89**
Offsite					
	Hauling	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***23.95***	***8.33***	***1.77***	***0.89***
Offsite Trenching, P1 Building Construction, & P1 Fine Grading		**50.44**	**29.22**	**3.10**	**2.13**
1.50-acre LST		**144**	**1,047**	**5.50**	**4.50**
Exceed Threshold?		No	No	No	No

Phase 1 Finishing/Landscaping

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2021**	**Summer**			
	Off-Road		7.0827	6.5087	0.3135	0.2884
	Total		**7.0827**	**6.5087**	**0.3135**	**0.2884**
TOTAL			***7.08***	***6.51***	***0.31***	***0.29***
Onsite		**2021**	**Winter**			
	Off-Road		7.0827	6.5087	0.3135	0.2884
	Total		**7.0827**	**6.5087**	**0.3135**	**0.2884**
TOTAL			***7.08***	***6.51***	***0.31***	***0.29***
Onsite		**2021**				
	Off-Road		7.08	6.51	0.31	0.29
	Total		**7.08**	**6.51**	**0.31**	**0.29**
Offsite						
	Hauling		0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***7.08***	***6.51***	***0.31***	***0.29***
Offsite Trenching, P1 Building Construction, & P1 Finishing/Landscaping			**33.57**	**27.41**	**1.64**	**1.53**
2.00-acre LST			**170**	**1,232**	**6.00**	**5.00**
Exceed Threshold?			No	No	No	No

Offsite Fine Grading

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2021**	**Summer**			
	Fugitive Dust				0	0
	Off-Road		7.4341	8.6085	0.4278	0.4189
	Total		**7.4341**	**8.6085**	**0.4278**	**0.4189**
TOTAL			***7.43***	***8.61***	***0.43***	***0.42***
Onsite		**2021**	**Winter**			
	Fugitive Dust				0	0
	Off-Road		7.4341	8.6085	0.4278	0.4189
	Total		**7.4341**	**8.6085**	**0.4278**	**0.4189**
TOTAL			***7.43***	***8.61***	***0.43***	***0.42***
Onsite		**2021**				
	Fugitive Dust		0.00	0.00	0.00	0.00
	Off-Road		7.43	8.61	0.43	0.42
	Total		**7.43**	**8.61**	**0.43**	**0.42**
Offsite						
	Hauling		0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***7.43***	***8.61***	***0.43***	***0.42***

Phase 1 Asphalt Paving

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2021**	**Summer**			
	Off-Road		13.6396	8.7004	0.5675	0.5221
	Paving				0	0
	Total		**13.6396**	**8.7004**	**0.5675**	**0.5221**
TOTAL			***13.64***	***8.70***	***0.57***	***0.52***
Onsite		**2021**	**Winter**			
	Off-Road		13.6396	8.7004	0.5675	0.5221
	Paving				0	0
	Total		**13.6396**	**8.7004**	**0.5675**	**0.5221**
TOTAL			***13.64***	***8.70***	***0.57***	***0.52***

Onsite	**2021**				
	Off-Road	13.64	8.70	0.57	0.52
	Paving	0.00	0.00	0.00	0.00
	Total	**13.64**	**8.70**	**0.57**	**0.52**
Offsite					
	Hauling	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***13.64***	***8.70***	***0.57***	***0.52***
Offsite Trenching, P1 Building Construction, P1 Finishing/Landscaping, Offsite Fine Grade, & P1 Asphalt Pave		**54.65**	**44.72**	**2.64**	**2.47**
3.00-acre LST		**203**	**1,552**	**9.33**	**6.33**
Exceed Threshold?		No	No	No	No
P1 Building Construction, P1 Finishing/Landscaping, Offsite Fine Grade, & P1 Asphalt Pave		**42.25**	**33.28**	**2.04**	**1.90**
2.50-acre LST		**187**	**1,392**	**7.66**	**5.67**
Exceed Threshold?		No	No	No	No
P1 Building Construction, P1 Finishing/Landscaping, & Offsite Fine Grade		**28.61**	**24.58**	**1.47**	**1.38**
2.00-acre LST		**170**	**1,232**	**6.00**	**5.00**
Exceed Threshold?		No	No	No	No

Phase 1 Architectural Coating

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2021 Summer**				
	Archit. Coating			0	0
	Off-Road	1.5268	1.8176	0.0941	0.0941
	Total	**1.5268**	**1.8176**	**0.0941**	**0.0941**
TOTAL		***1.53***	***1.82***	***0.09***	***0.09***
Onsite	**2021 Winter**				
	Archit. Coating			0	0
	Off-Road	1.5268	1.8176	0.0941	0.0941
	Total	**1.5268**	**1.8176**	**0.0941**	**0.0941**
TOTAL		***1.53***	***1.82***	***0.09***	***0.09***

Onsite		**2021**			
	Archit. Coating	0.00	0.00	0.00	0.00
	Off-Road	1.53	1.82	0.09	0.09
	Total	**1.53**	**1.82**	**0.09**	**0.09**
Offsite					
	Hauling	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***1.53***	***1.82***	***0.09***	***0.09***
P1 Building Construction, P1 Finishing/Landscaping, Offsite Fine Grade, P1 Coating		**30.13**	**26.39**	**1.56**	**1.47**
2.00-acre LST		**170**	**1,232**	**6.00**	**5.00**
Exceed Threshold?		No	No	No	No
P1 Building Construction, Offsite Fine Grade, P1 Coating		**23.05**	**19.88**	**1.25**	**1.18**
<=1.00-acre LST		**80**	**571**	**4.00**	**3.00**
Exceed Threshold?		No	No	No	No

Offsite Asphalt Paving

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2021**	**Summer**			
	Off-Road		6.1569	6.6106	0.3454	0.3189
	Paving				0	0
	Total		**6.1569**	**6.6106**	**0.3454**	**0.3189**
TOTAL			***6.16***	***6.61***	***0.35***	***0.32***
Onsite		**2021**	**Winter**			
	Off-Road		6.1569	6.6106	0.3454	0.3189
	Paving				0	0
	Total		**6.1569**	**6.6106**	**0.3454**	**0.3189**
TOTAL			***6.16***	***6.61***	***0.35***	***0.32***
Onsite		**2021**				
	Off-Road		6.16	6.61	0.35	0.32
	Paving		0.00	0.00	0.00	0.00
	Total		**6.16**	**6.61**	**0.35**	**0.32**
Offsite						
	Hauling		0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***6.16***	***6.61***	***0.35***	***0.32***

Offsite Finishing/Landscaping					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2021 Summer**				
	Off-Road	7.0827	6.5087	0.3135	0.2884
	Total	**7.0827**	**6.5087**	**0.3135**	**0.2884**
TOTAL		***7.08***	***6.51***	***0.31***	***0.29***
Onsite	**2021 Winter**				
	Off-Road	7.0827	6.5087	0.3135	0.2884
	Total	**7.0827**	**6.5087**	**0.3135**	**0.2884**
TOTAL		***7.08***	***6.51***	***0.31***	***0.29***
Onsite	**2021**				
	Off-Road	7.08	6.51	0.31	0.29
	Total	**7.08**	**6.51**	**0.31**	**0.29**
Offsite					
	Hauling	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***7.08***	***6.51***	***0.31***	***0.29***
1.50-acre LST		**144**	**1,047**	**5.50**	**4.50**
Exceed Threshold?		No	No	No	No
P1 Building Construction, P1 Coating, Offsite Paving, & Offsite Finishing/Landscaping		**28.86**	**24.39**	**1.48**	**1.37**
1.50-acre LST		**144**	**1,047**	**5.50**	**4.50**
Exceed Threshold?		No	No	No	No
P1 Building Construction, Offsite Paving, & Offsite Finishing/Landscaping		**27.33**	**22.58**	**1.39**	**1.28**
1.50-acre LST		**144**	**1,047**	**5.50**	**4.50**
Exceed Threshold?		No	No	No	No
P1 Building Construction & Offsite Finishing/Landscaping		**21.17**	**15.97**	**1.04**	**0.96**
1.50-acre LST		**144**	**1,047**	**5.50**	**4.50**
Exceed Threshold?		No	No	No	No

Onsite		**2022 Summer**			
	Off-Road	5.9747	6.4425	0.2609	0.24
	Total	**5.9747**	**6.4425**	**0.2609**	**0.24**
TOTAL		***5.97***	***6.44***	***0.26***	***0.24***
Onsite		**2022 Winter**			
	Off-Road	5.9747	6.4425	0.2609	0.24
	Total	**5.9747**	**6.4425**	**0.2609**	**0.24**
TOTAL		***5.97***	***6.44***	***0.26***	***0.24***
Onsite		**2022**			
	Off-Road	5.97	6.44	0.26	0.24
	Total	**5.97**	**6.44**	**0.26**	**0.24**
Offsite					
	Hauling	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***5.97***	***6.44***	***0.26***	***0.24***
1.50-acre LST		**144**	**1,047**	**5.50**	**4.50**
Exceed Threshold?		No	No	No	No

Phase 2 Rough Grading

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022 Summer**				
	Fugitive Dust				8.5491	3.1974
	Off-Road		72.1659	41.9462	2.8456	2.6179
	Total		**72.1659**	**41.9462**	**11.3947**	**5.8153**
TOTAL			***72.17***	***41.95***	***11.39***	***5.82***
Onsite		**2022 Winter**				
	Fugitive Dust				8.5491	3.1974
	Off-Road		72.1659	41.9462	2.8456	2.6179
	Total		**72.1659**	**41.9462**	**11.3947**	**5.8153**
TOTAL			***72.17***	***41.95***	***11.39***	***5.82***

Onsite		**2022**			
	Fugitive Dust	0.00	0.00	8.55	3.20
	Off-Road	72.17	41.95	2.85	2.62
	Total	**72.17**	**41.95**	**11.39**	**5.82**
Offsite					
	Hauling	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***72.17***	***41.95***	***11.39***	***5.82***

Phase 2 Rough Grading Soil Haul

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022 Summer**				
	Fugitive Dust				0.0382	5.78E-03
	Off-Road		2.0908	2.1338	0.0702	0.0646
	Total		**2.0908**	**2.1338**	**0.1084**	**0.0704**
TOTAL			***2.09***	***2.13***	***0.11***	***0.07***
Onsite		**2022 Winter**				
	Fugitive Dust				0.0382	5.78E-03
	Off-Road		2.0908	2.1338	0.0702	0.0646
	Total		**2.0908**	**2.1338**	**0.1084**	**0.0704**
TOTAL			***2.09***	***2.13***	***0.11***	***0.07***
Onsite		**2022**				
	Fugitive Dust		0.00	0.00	0.04	0.01
	Off-Road		2.09	2.13	0.07	0.06
	Total		**2.09**	**2.13**	**0.11**	**0.07**
Offsite						
	Hauling		0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***2.09***	***2.13***	***0.11***	***0.07***

Offsite Finishing/Landscaping, P2 Rough Grading, & P2 Rough Grading Haul	**80.23**	**50.52**	**11.76**	**6.13**
5.00-acre LST	**270**	**2,193**	**15.99**	**9.00**
Exceed Threshold?	No	No	No	No
Offsite Finishing/Landscaping & P2 Rough Grading Haul	**8.07**	**8.58**	**0.37**	**0.31**
1.50-acre LST	**144**	**1,047**	**5.50**	**4.50**
Exceed Threshold?	No	No	No	No

Phase 2 Utility Trenching

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022 Summer**				
	Off-Road		11.6192	9.9028	0.428	0.3938
	Total		**11.6192**	**9.9028**	**0.428**	**0.3938**
TOTAL			***11.62***	***9.90***	***0.43***	***0.39***
Onsite		**2022 Winter**				
	Off-Road		11.6192	9.9028	0.428	0.3938
	Total		**11.6192**	**9.9028**	**0.428**	**0.3938**
TOTAL			***11.62***	***9.90***	***0.43***	***0.39***
Onsite		**2022**				
	Off-Road		11.62	9.90	0.43	0.39
	Total		**11.62**	**9.90**	**0.43**	**0.39**
Offsite						
	Hauling		0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***11.62***	***9.90***	***0.43***	***0.39***

Phase 2 Building Construction

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022 Summer**				
	Off-Road		17.7854	12.8535	0.9547	0.8783
	Total		**17.7854**	**12.8535**	**0.9547**	**0.8783**
TOTAL			***17.79***	***12.85***	***0.95***	***0.88***
Onsite		**2022 Winter**				
	Off-Road		17.7854	12.8535	0.9547	0.8783
	Total		**17.7854**	**12.8535**	**0.9547**	**0.8783**
TOTAL			***17.79***	***12.85***	***0.95***	***0.88***
Onsite		**2022**				
	Off-Road		17.79	12.85	0.95	0.88
	Total		**17.79**	**12.85**	**0.95**	**0.88**
Offsite						
	Hauling		0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***17.79***	***12.85***	***0.95***	***0.88***

<=1.00-acre LST	**118**	**863**	**5.00**	**4.00**
Exceed Threshold?	No	No	No	No
Offsite Finishing/Landscaping, P2 Rough Grading Haul, P2 Utility Trenching, & P2 Building Construction	**37.47**	**31.33**	**1.75**	**1.58**
3.00-acre LST	**203**	**1,552**	**9.33**	**6.33**
Exceed Threshold?	No	No	No	No
Offsite Finishing/Landscaping, P2 Utility Trenching, & P2 Building Construction	**35.38**	**29.20**	**1.64**	**1.51**
3.00-acre LST	**203**	**1,552**	**9.33**	**6.33**
Exceed Threshold?	No	No	No	No
P2 Utility Trenching, & P2 Building Construction	**29.40**	**22.76**	**1.38**	**1.27**
1.50-acre LST	**144**	**1,047**	**5.50**	**4.50**
Exceed Threshold?	No	No	No	No

Phase 2 Fine Grading

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022 Summer**				
	Fugitive Dust				0.9067	0.0979
	Off-Road		20.8377	7.9233	0.7507	0.6907
	Total		**20.8377**	**7.9233**	**1.6574**	**0.7886**
TOTAL			***20.84***	***7.92***	***1.66***	***0.79***
Onsite		**2022 Winter**				
	Fugitive Dust				0.9067	0.0979
	Off-Road		20.8377	7.9233	0.7507	0.6907
	Total		**20.8377**	**7.9233**	**1.6574**	**0.7886**
TOTAL			***20.84***	***7.92***	***1.66***	***0.79***
Onsite		**2022**				
	Fugitive Dust		0.00	0.00	0.91	0.10
	Off-Road		20.84	7.92	0.75	0.69
	Total		**20.84**	**7.92**	**1.66**	**0.79**
Offsite						
	Hauling		0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***20.84***	***7.92***	***1.66***	***0.79***

P2 Building Construction & P2 Fine Grading		**38.62**	**20.78**	**2.61**	**1.67**
2.00-acre LST		**170**	**1,232**	**6.00**	**5.00**
Exceed Threshold?		No	No	No	No

Phase 2 Finishing/Landscaping

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022 Summer**				
	Off-Road		5.9747	6.4425	0.2609	0.24
	Total		**5.9747**	**6.4425**	**0.2609**	**0.24**
TOTAL			***5.97***	***6.44***	***0.26***	***0.24***
Onsite		**2022 Winter**				
	Off-Road		5.9747	6.4425	0.2609	0.24
	Total		**5.9747**	**6.4425**	**0.2609**	**0.24**
TOTAL			***5.97***	***6.44***	***0.26***	***0.24***
Onsite		**2022**				
	Off-Road		5.97	6.44	0.26	0.24
	Total		**5.97**	**6.44**	**0.26**	**0.24**
Offsite						
	Hauling		0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***5.97***	***6.44***	***0.26***	***0.24***

Phase 2 Architectural Coating

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022 Summer**				
	Archit. Coating				0	0
	Off-Road		1.4085	1.8136	0.0817	0.0817
	Total		**1.4085**	**1.8136**	**0.0817**	**0.0817**
TOTAL			***1.41***	***1.81***	***0.08***	***0.08***
Onsite		**2022 Winter**				
	Archit. Coating				0	0
	Off-Road		1.4085	1.8136	0.0817	0.0817
	Total		**1.4085**	**1.8136**	**0.0817**	**0.0817**
TOTAL			***1.41***	***1.81***	***0.08***	***0.08***

Onsite		**2022**			
	Archit. Coating	0.00	0.00	0.00	0.00
	Off-Road	1.41	1.81	0.08	0.08
	Total	**1.41**	**1.81**	**0.08**	**0.08**
Offsite					
	Hauling	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***1.41***	***1.81***	***0.08***	***0.08***
P2 Building Construction, P2 Finish/Landscape, & P2 Coating		**25.17**	**21.11**	**1.30**	**1.20**
1.50-acre LST		**144**	**1,047**	**5.50**	**4.50**
Exceed Threshold?		No	No	No	No

Phase 2 Asphalt Paving

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022 Summer**				
	Off-Road		11.8577	8.5871	0.4823	0.4437
	Paving				0	0
	Total		**11.8577**	**8.5871**	**0.4823**	**0.4437**
TOTAL			***11.86***	***8.59***	***0.48***	***0.44***
Onsite		**2022 Winter**				
	Off-Road		11.8577	8.5871	0.4823	0.4437
	Paving				0	0
	Total		**11.8577**	**8.5871**	**0.4823**	**0.4437**
TOTAL			***11.86***	***8.59***	***0.48***	***0.44***
Onsite		**2022**				
	Off-Road		11.86	8.59	0.48	0.44
	Paving		0.00	0.00	0.00	0.00
	Total		**11.86**	**8.59**	**0.48**	**0.44**
Offsite						
	Hauling		0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***11.86***	***8.59***	***0.48***	***0.44***
P2 Building Construction, P2 Finish/Landscape, P2 Coating, & P2 Paving			**37.03**	**29.70**	**1.78**	**1.64**
2.00-acre LST			**170**	**1,232**	**6.00**	**5.00**

Exceed Threshold?	No	No	No	No
P2 Building Construction, P2 Finish/Landscape, & P2 Coating	**25.17**	**21.11**	**1.30**	**1.20**
1.50-acre LST	**144**	**1,047**	**5.50**	**4.50**
Exceed Threshold?	No	No	No	No
P2 Building Construction & P2 Finish/Landscape	**23.76**	**19.30**	**1.22**	**1.12**
1.50-acre LST	**144**	**1,047**	**5.50**	**4.50**
Exceed Threshold?	No	No	No	No

Regional Operation Emissions Worksheet*

*CalEEMod, Version 2016.3.2 and EMFAC2017, Version 1.0.2

Unmitigated

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	43.12	0.00	0.20	0.00	0.00	0.00
Energy	0.38	3.44	2.89	0.02	0.26	0.26
Mobile - Passenger	11.98	12.06	158.95	0.42	44.62	12.00
Mobile - Trucks	4.58	100.68	31.10	0.56	31.33	10.39
Transport Refrigeration Units	0.52	4.21	6.44	0.00	0.07	0.06
Off-Road Equipment	0.12	3.35	31.18	0.01	0.02	0.02
Total	**60.70**	**123.73**	**230.75**	**1.01**	**76.29**	**22.73**

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	43.12	0.00	0.20	0.00	0.00	0.00
Energy	0.38	3.44	2.89	0.02	0.26	0.26
Mobile - Passenger	11.34	12.81	136.61	0.39	44.62	12.00
Mobile - Trucks	4.59	105.09	30.98	0.56	31.33	10.39
Transport Refrigeration Units	0.52	4.21	6.44	0.00	0.07	0.06
Off-Road Equipment	0.12	3.35	31.18	0.01	0.02	0.02
Total	**60.07**	**128.89**	**208.29**	**0.98**	**76.30**	**22.73**

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	43.117600	0.001820	0.199200	0.000010	0.000710	0.000710
Energy	0.378100	3.437200	2.887200	0.020600	0.261200	0.261200
Mobile - Passenger	11.982300	12.806600	158.952200	0.419700	44.618200	11.996400
Mobile - Trucks	4.591200	105.085000	31.098200	0.564700	31.331400	10.391700
Transport Refrigeration Units	0.522721	4.205970	6.436041	0.000909	0.066529	0.061207
Off-Road Equipment	0.119230	3.353921	31.178660	0.008349	0.016969	0.015611
Total	**60.70**	**128.89**	**230.75**	**1.01**	**76.30**	**22.73**
Regional Thresholds	**55**	**55**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	Yes	Yes	No	No	No	No

Mitigated[1]

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	39.55	0.00	0.12	0.00	0.00	0.00
Energy	0.38	3.44	2.89	0.02	0.26	0.26
Mobile - Passenger	11.98	12.06	158.95	0.42	44.62	12.00
Mobile - Trucks	4.58	100.68	31.10	0.56	31.33	10.39
Transport Refrigeration Units	0.52	4.21	6.44	0.00	0.07	0.06
Off-Road Equipment	0	0	0	0	0	0
Total	**57.01**	**120.38**	**199.49**	**1.01**	**76.28**	**22.71**

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	39.55	0.00	0.12	0.00	0.00	0.00
Energy	0.38	3.44	2.89	0.02	0.26	0.26
Mobile - Passenger	11.34	12.81	136.61	0.39	44.62	12.00
Mobile - Trucks	4.59	105.09	30.98	0.56	31.33	10.39
Transport Refrigeration Units	0.52	4.21	6.44	0.00	0.07	0.06
Off-Road Equipment	0	0	0	0	0	0
Total	**56.38**	**125.54**	**177.03**	**0.97**	**76.28**	**22.71**

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	39.551700	0.001010	0.115700	0.000010	0.000300	0.000300
Energy	0.378100	3.437200	2.887200	0.020600	0.261200	0.261200
Mobile - Passenger	11.982300	12.806600	158.952200	0.419700	44.618200	11.996400
Mobile - Trucks	4.591200	105.085000	31.098200	0.564700	31.331400	10.391700
Transport Refrigeration Units	0.52	4.21	6.44	0.00	0.07	0.06
Off-Road Equipment	0	0	0	0	0	0
Total	**57.01**	**125.54**	**199.49**	**1.01**	**76.28**	**22.71**
Regional Thresholds	**55**	**55**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	Yes	Yes	No	No	No	No

[1] Incorporates Mitigation Measure AQ-5 which requires off-road equipment used for daily operations be electric-powered only.

Localized Operation Emissions Worksheet*

*CalEEMod, Version 2016.3.2 and EMFAC2017, Version 1.0.2

Unmitigated

Summer

	NOx	CO	PM10 Total	PM2.5 Total
Area	0.00	0.20	0.00	0.00
Off-Road Equipment	3.35	31.18	0.02	0.02
Onsite Truck Travel	1.59	0.47	0.47	0.16
Truck Idling	5.19	2.97	0.01	0.01
Transport Refrigeration Unit	4.21	6.44	0.07	0.06
Total	**14.34**	**41.25**	**0.57**	**0.24**

Winter

	NOx	CO	PM10 Total	PM2.5 Total
Area	0.00	0.20	0.00	0.00
Off-Road Equipment	3.35	31.18	0.02	0.02
Onsite Truck Travel	1.59	0.47	0.47	0.16
Truck Idling	5.19	2.97	0.01	0.01
Transport Refrigeration Unit	4.21	6.44	0.07	0.06
Total	**14.34**	**41.25**	**0.57**	**0.24**

Max Daily

	NOx	CO	PM10 Total	PM2.5 Total
Area	0.00	0.20	0.00	0.00
Off-Road Equipment	3.35	31.18	0.02	0.02
Onsite Truck Travel	1.59	0.47	0.47	0.16
Truck Idling	5.19	2.97	0.01	0.01
Transport Refrigeration Unit	4.21	6.44	0.07	0.06
Total	**14.34**	**41.25**	**0.57**	**0.24**
5-Acre-LST	**269.99**	**2,192.80**	**4.00**	**2.00**
Exceeds Thresholds?	No	No	No	No

GHG Emissions Inventory

Existing Conditions - Baseline Year

Energy[1]	195	$MTCO_2e$/Year
Livestock[2]	18,115	$MTCO_2e$/Year
Total	**18,309**	**$MTCO_2e$/Year**

[1] *Based on electricity usage between November 2018 and October 2019. Emissions from natural gas use are based on natural gas use reported for October 2018 multiplied by 12 months.*

[2] *Emissions from enteric fermentation and manure management associated with 2,000 mature dairy cows, 600 young cattle, and 100 grazing beef cattle that are present year-round.*

Proposed Project

Construction

	Phase 1	Phase 2	Offsite	$MTCO_2e$ Total*
2020	271.6988	51.9871	38.5738	362
2021	603.645	0	281.4791	885
2022	0	625.0511	16.0365	641
Total Construction	**875**	**677**	**336**	**1,888**

*CalEEMod, Version 2016.3.2.

Operation*

Unmitigated			
Area	**5.15E-02**	$MTCO_2e$/Year**	0%
Energy	**3,928**	$MTCO_2e$/Year	15%
Mobile - Passenger	**6,303**	$MTCO_2e$/Year	23%
Mobile - Trucks	**13,924**	$MTCO_2e$/Year	52%
TRUs	**16**	$MTCO_2e$/Year	0%
Off-Road Equipment	**285**	$MTCO_2e$/Year	1%
Solid Waste	**2,236**	$MTCO_2e$/Year	8%
Water	**151**	$MTCO_2e$/Year	1%
Amortized Construction Emissions****	**63**	$MTCO_2e$/Year	0%
Total	**26,906**	**$MTCO_2e$/Year**	100%
Existing Emissions	**18,309**		
Net Change	**8,596**		
SCAQMD Bright-Line Screening Threshold	3,000	$MTCO_2e$/Year	
Exceed Threshold?	**Yes**		

*CalEEMod, Version 2016.3.2.

** $MTCO_2e$=metric tons of carbon dioxide equivalent.

***EMFAC2017, Version 1.0.2

**** Total construction emissions are amortized over 30 years per SCAQMD methodology; SCAQMD. 2009, November 19. Greenhouse Gases (GHG) CEQA Significance Thresholds Working Group Meeting 14. http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-14/ghg-meeting-14-main-presentation.pdf?sfvrsn=2.

With Mitigation			
Area	**5.15E-02**	$MTCO_2e$/Year**	0%
Energy	**3,928**	$MTCO_2e$/Year	15%
Mobile - Passenger	**6,303**	$MTCO_2e$/Year	24%
Mobile - Trucks	**13,924**	$MTCO_2e$/Year	52%
TRUs	**16**		0%
Solid Waste	**2,236**	$MTCO_2e$/Year	8%
Water	**151**	$MTCO_2e$/Year	1%
Off-Road Equipment	**0**	$MTCO_2e$/Year	0%
Amortized Construction Emissions****	**63**	$MTCO_2e$/Year	0%
Total	**26,621**	**$MTCO_2e$/Year**	100%
Existing Emissions	**18,309**		69%
Net Change	**8,311**		
SCAQMD Bright-Line Screening Threshold	3,000	$MTCO_2e$/Year	
Exceed Threshold?	**Yes**		
Project Baseline Inventory:	26,906		
Project Mitigated Inventory:	26,621		
Total Net Change:	-285		
Percent Net Change:	**-1.06%**		

*CalEEMod, Version 2016.3.2.

** $MTCO_2e$=metric tons of carbon dioxide equivalent.

***EMFAC2017, Version 1.0.2

**** Total construction emissions are amortized over 30 years per SCAQMD methodology; SCAQMD. 2009, November 19. Greenhouse Gases (GHG) CEQA Significance Thresholds Working Group Meeting 14. http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-14/ghg-meeting-14-main-presentation.pdf?sfvrsn=2.

Truck Idling Emissions Factors

Source: California Air Resources Board. EMFAC2017 Web Database, Version 1.0.2. https://www.arb.ca.gov/emfac/2017/ (Los Angeles - South Coast Air Basin, year 2020, aggregated emission rates for diesel vehicles)

Annual

g/hour

Region	Calendar Year	Vehicle Category	ROG_IDLEX	CO_IDLEX	NOx_IDLEX	CO2_IDLEX	CH4_IDLEX	PM10_IDLEX	PM2_5_IDLEX	SOx_IDLEX
San Bernardino (SC)	2022	HHDT	2.36576304	32.08820393	32.57183745	5978.917627	0.109883566	0.017119	0.01637842	0.05704167
San Bernardino (SC)	2022	MHDT	0.74870215	19.20869397	52.40517214	6495.878699	0.034775276	0.1252621	0.11984331	0.06197372

Max Rate

lbs/hour

Region	Calendar Year	Vehicle Category	ROG_IDLEX	CO_IDLEX	NOx_IDLEX	CO2_IDLEX	CH4_IDLEX	PM10_IDLEX	PM2_5_IDLEX	SOx_IDLEX
San Bernardino (SC)	2022	HHDT	0.005	0.071	0.072	13.181	0.000	0.000	0.000	0.000
San Bernardino (SC)	2022	MHDT	0.002	0.042	0.116	14.321	0.000	0.000	0.000	0.000

Truck Idling Emissions

Source: California Air Resources Board. EMFAC2017 Web Database, Version 1.0.2. https://www.arb.ca.gov/emfac/2017/ (Los Angeles - South Coast Air Basin, year 2021, aggregated emission rates for diesel vehicles)

Vehicle Type	Truck Trips	Trucks	Minutes of Idling per Truck	Minutes per hour	
MHDT	119	60	30	0.5	30
HHDT	95	48	30	0.5	

Criteria Air Pollutants, Maximum Summer/Winter

	lbs/day					
Truck Idling	ROG	NOx	CO	SO2	PM10	PM2.5
MHDT	0.04952	3.46600	1.27044	0.00410	0.00828	0.00793
HHDT	0.12517	1.72340	1.69782	0.00302	0.00091	0.00087
	0.17469	5.18941	2.96825	0.00712	0.00919	0.00879

GHG Emissions, Annual

	MT/Yr				
AR4 GWPs	1	25		298	
Truck Idling	CO2	CH4	NOX	N2O	CO2e
MHDT	71.13	0.0004	0.57	0.02	78.25
HHDT	52.38	0.0010	0.29	0.01	55.94
	124	0	1	0	134

N_2O emissions were calculated using an off-model adjustment provided by CARB for gas emissions in the 2014 Technical Support Document for California's 2000-2012 GHG EMissions inventory. The off-model adjustment uses for every gram of NOx emitted from gasoline vehicles, an average of 0.0416 grams of N_2O are emitted. (N_2O = 0.0416 x NOx)

2. Criteria Air Pollutant and GHG Modeling Inputs and Assumptions

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CalEEMod Project Characteristics Inputs (Operation): Proposed Project

Name:	Ontario Ranch Specific Plan EIR
Project Location:	
County/Air Basin:	San Bernardino County - SC
Climate Zone:	10
Land Use Setting:	Urban
Operational Year:	2022
Utility Company:	SCE
Air Basin:	SoCAB
Air District:	SCAQMD

Total Project Site Area 85.00 acres

	Warehouse	Office	Total	
Building 1	540,964	60,000	600,964	BSF
Building 2	558,353	60,000	618,353	BSF
Building 3	207,806	20,000	227,806	BSF
Building 4	110,030	20,000	130,030	BSF
Building 5	59,200	20,000	79,200	BSF
Building 6	30,900	16,000	46,900	BSF
Building 7	75,624	20,000	95,624	BSF
Building 8	86,150	20,000	106,150	BSF
Total	**1,669,027**	**236,000**	**1,905,027**	

Proposed Use	CalEEMod Land Use	Square Footage
High-Cube Fulfillment Warehouse	Unrefrigerated Warehouse-No Rail	1,019,317
High-Cube Cold Storage Warehouse	Refrigerated Warehouse-No Rail	200,000
Warehousing	Unrefrigerated Warehouse-No Rail	357,836
Business Park	Office Park	327,874
	Total	**1,905,027**
Other Use		
Parking Lot	353,766	
Non-Parking Asphalt	1,098,198	
Hardscape	25,000	
Landscaping	397,897	

CalEEMod Land Use Inputs (Passenger Vehicles and Truck Only Model Runs)

Land Use	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
High-Cube Fulfillment Warehouse/Warehouse	Industrial	Unrefrigerated Warehouse-No Rail	1,377.153	1000 sqft	13.99	1,377,153
High-Cube Cold Storage Warehouse	Industrial	Refrigerated Warehouse-No Rail	200.000	1000 sqft	13.99	200,000
Business Park	Office	Office Park	327.874	1000 sqft	13.99	327,874
Parking Lot	Parking	Parking Lot	8.121	acres	8.12	353,766
Other Asphalt	Parking	Other Asphalt	25.211	acres	25.21	1,098,198
Other Non-Asphalt	Parking	Other Non-Asphalt	9.708	acres	9.71	0
					85.00	

Trip Generation

	High Cube Fullfillment Warehouse	High-Cube Cold Storage	Warehousing	Business Park	
Trip Generation*	***2,172***	***426***	***624***	***1,106***	4,328
Trip Generation Passenger Vehicles	1,784	288	498	962	3,532
Trip Generation Trucks (2-4 axle)	166	64	48	54	796
Trip Generation Trucks (4+/5+ Axle)	222	74	78	90	

Land Use	ITE Weekday Trip Rate**	ITE Saturday Trip Rate**	ITE Sunday Trip Rate**
High-Cube Fulfillment Warehouse	2.129		
High-Cube Cold Storage Warehouse	2.120	0	0
Warehousing	1.740	0.15	0.06
Business Park	3.370	2.54	1.24

High-Cube Fulfillment Warehouse/Warehouse

		Daily Trips		
		Weekday	**Saturday**	**Sunday**
High Cube Fulfillment Center				
	Passenger	1,784	1,784	1,784
	MHD	166	166	166
	HHD	222	222	222
Warehouse				
	Passenger	498	43	17
	MHD	48	4	2
	HHD	78	7	3
		7.69%	7.69%	
		12.50%	12.50%	
	Total Passenger Vehicle Trips	2,282	1,827	1,801
	Total Truck Trips	514	399	392

	Weekday	Saturday	Sunday
Warehouse - Passenger Vehicle	1.66	1.33	1.31
Warehouse - Trucks	0.373	0.290	0.285

58,278.00
31,840.00

	Percent ADT	Trips	Type	Average VMT/Trip[1]	Miles/day	Percent VMT	Normalized % Truck VMT
Fleet Mix:	82%	2282	LDA	16.5	37,653	64.69%	
	8%	214	MHD	40.0	8,560	14.71%	42%
Trucks	11%	300	HHD	40.0	12,000	20.62%	58%
	100%	2,796		Total VMT	58,213	100%	100%
				Truck only VMT	20,560	35%	
				average trip length (all trips)	**20.83**		
	truck trips/day total	514	trucks/day	257			
				Average Truck Trip Length	40.00		

Source:

[1] Based on information provided by Urban Crossroads.

High-Cube Cold Storage Warehouse

	Daily Trips		
	Weekday	**Saturday**	**Sunday**
Passenger	288	288	288
MHD	64	64	64
HHD	74	74	74
Total Passenger Vehicle Trips	288	288	288
Total Truck Trips	138	138	138

	Weekday	**Saturday**	**Sunday**
Warehouse - Passenger Vehicle	1.44	1.44	1.44
Warehouse - Trucks	0.690	0.69	0.69

	Percent ADT	**Trips**	**Type**	**Average VMT/Trip[1]**	**Miles/day**	**Percent VMT**	**Normalized % Truck VMT**
Fleet Mix:	68%	288	LDA	16.5	4,752	46.27%	
	15%	64	MHD	40.0	2,560	24.93%	46%
Trucks	17%	74	HHD	40.0	2,960	28.82%	54%
	100%	426		Total VMT	10,272	100%	100%
				Truck only VMT	5,520	54%	
				average trip length (all trips)	**24.12**		
	truck trips/day total	138	trucks/day	69			
				Average Truck Trip Length	40.00		

Source:

[1] Based on information provided by Urban Crossroads.

Business Park

	Daily Trips		
	Weekday	**Saturday**	**Sunday**
Passenger	962	724	354
MHD	54	41	20
HHD	90	68	33
Total Passenger Vehicle Trips	962	724	354
Total Truck Trips	144	108	53

	Weekday	**Saturday**	**Sunday**
Warehouse - Passenger Vehicle	2.93	2.93	2.93
Warehouse - Trucks	0.439	0.44	0.44

	Percent ADT	**Trips**	**Type**	**Average VMT/Trip[1]**	**Miles/day**	**Percent VMT**	**Normalized % Truck VMT**
Fleet Mix:	87%	962	LDA	16.5	15,873	73.38%	
	5%	54	MHD	40.0	2,160	9.99%	38%
Trucks	8%	90	HHD	40.0	3,600	16.65%	63%
	100%	1,106		Total VMT	21,633	100%	100%
				Truck only VMT	5,760	27%	
				average trip length (all trips)	**19.56**		
	truck trips/day total	144	trucks/day	72			
				Average Truck Trip Length	40.00		

Source:

[1] Based on information provided by Urban Crossroads.

Onsite Equipment

	Number of Pallets[1]	Number of Forklifts[1]
Warehousing Project #1	8,881	4
Warehousing Project #2	7,354	4
Warehousing Project #3	3,622	1
Warehousing Project #4	2,812	1
Warehousing Project #5	4,815	2
	Estimated # of Pallets[2]	**Forecast # of Forklifts**
Proposed Project	219,737	126
Forklift Fuel Type:[3]	Electric	

Building	L	W	H	No. of Pallets
B1	882	620	40	75,318
B2	882	640	40	77,748
B3	859	238	36	23,465
B4	582	185	32	12,358
B5	340	183	32	7,141
B6	242	189	30	4,200
B7	392	206	32	9,269
B8	433	206	32	10,238
				219,737

Sources:

[1] Based on other warehousing projects.

[2] Raymond Handling Pallet Space Calculator. http://raymondhandling.com/learn/tools/pallet-space-calculator/

[3] Anticipates forklifts would be electric powered.

Water Use

Indoor Water Demand

	Total Building Square Feet	Acres	Water Demand Rate (GPD/acre)[1]	Total Daily Water Demand (gpd)	Total Annual Water Demand (gpy)[2]
High-Cube Fulfillment Warehouse/Warehouse	1,377,153	54.0	1400	75,548	27,575,141
High-Cube Cold Storage Warehouse	200,000	7.8	1400	10,972	4,004,659
	1,577,153	***61.8***	***n/a***	***86,520***	***31,579,800***
Business Park	327,874	23.8	1,800	42,840	15,636,600

[1]Table 5.17-5, Chapter 3.17, Utilities and Service Systems, of this DEIR.

[2]Assumes 365 days per year.

Septic Tank	0%
Aerobic	100%
Facultative Lagoons	0%

Recycled Water (100% Outdoor)

	Total Building Square Feet	Acres	Recycled Water Demand Rate (GPD/acre)[1]	Total Daily Recycled Water Demand (gpd)	Total Annual Recycled Water Demand (gpy)[2]
High-Cube Fulfillment Warehouse/Warehouse	1,377,153	54.0	893	48,189	17,589,001
High-Cube Cold Storage Warehouse	200,000	7.8	893	6,998	2,554,400
	1,577,153	***61.8***	***n/a***	***55,187***	***20,143,401***
Business Park	327,874	23.8	1,339	31,868	11,631,893

[1]Table 5.17-5, Chapter 3.17, Utilities and Service Systems, of this DEIR.
[2]Assumes 365 days per year.

Summary

Land Use	Total Annual Indoor Water Demand (gpy)	Total Outdoor Water (gpy)	Total Annual Recycled Water (gpy)	Net Total Annual Outdoor Water Demand (gpy)
High-Cube Fulfillment Warehouse/Warehouse	27,575,141	17,589,001	17,589,001	0
High-Cube Cold Storage Warehouse	4,004,659	2,554,400	2,554,400	0
Business Park	15,636,600	11,631,893	11,631,893	0

Solid Waste

	Total Building Square Feet	Solid Waste Generation Rate (lbs/day/sf)[1]	Total Daily Solid Waste Generation (lbs/day)	Total Annual Solid Waste Generation (tons/yr)[2]
High-Cube Fulfillment Warehouse/Warehouse	**1,377,153**	**0.0142**	**19,556**	**3,568.89**
High-Cube Cold Storage Warehouse	**200,000**	**0.0142**	**2,840**	**518.30**
Business Park	**327,874**	**0.006**	**1,967**	**359.02**

[1]Table 5.17-11, Chapter 3.17, Utilities and Service Systems, of this DEIR.
[2]Assumes 365 days per year and 2,000 pounds per ton.

Architectural Coating

Land Use	Land Use Amount	Paintable Surface Area Factor	Total Paintable Surface Area	Interior Area	Exterior Area
High-Cube Fulfillment Warehouse/Warehouse	1,377,153	2	2,754,306	2,065,730	688,577
High-Cube Cold Storage Warehouse	200,000	2	400,000	300,000	100,000
Business Park	327,874	2	655,748	491,811	163,937
			Total Building	**2,857,541**	**952,514**
Parking Lot	353,766	0.06	21,226	na	21,226

Energy

Buildings constructed after January 1, 2020 are required to meet the 2019 Building Energy Efficiency Standards, which are result in 30 percent more energy efficiency for non-residential uses compared to the 2016 Building Energy Efficiency Standards.

Southern California Edison Carbon Intensity Factors

CO2:[1,2]	504.43634	pounds per megawatt hour
CH4:[3]	0.029	pound per megawatt hour
N2O:[3]	0.00617	pound per megawatt hour

[1] Based on CO^2e intensity factor of 507 pounds per megawatt hour; Southern California Edison. 2019, May. 2018 Sustainability Report. https://www.edison.com/content/dam/eix/documents/sustainability/eix-2018-sustainability-report.pdf.

[2] Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH4 and N2O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.

[3] CalEEMod default values.

Water Reduction Measures

Install Low Flow Bathroom Faucet	32	% Reduction in flow
Install Low Flow Kitchen Faucet	18	% Reduction in flow
Install Low Flow Toilet	20	% Reduction in flow
Install Low Flow Shower	20	% Reduction in flow
Use Water Efficiency Irrigation System	6.1	% Reduction in flow

Changes to the CalEEMod Defaults - Unrefrigerated Warehouse Fleet Mix 2022 (Passenger Cars)

Passenger ADT:	2,282
Total ADTs:	2,796

Commercial Default	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
FleetMix (Model Default)	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944	100%
Trips	1,547	102	504	325	45	14	51	178	4	4	17	2	3	2,796
Percent	91%					3%		6%						100%
Proportion	0.609014	0.040088	0.198507	0.128093	0.017799	0.182224	0.650806	1.000000	0.048476	0.055907	0.006500	0.028864	0.033723	
Assumed Mix	81.62%					7.65%		10.73%						100.00%
adjusted with Assumed	0.497057	0.032718	0.162015	0.104545	0.014527	0	0	0	0	0	0.005305	0	0	82%
Trips	1,390	91	453	292	41	0	0	0	0	0	15	0	0	2,282
	50%	3%	16%	10%	1%	0%	0%	0%	0%	0%	1%	0%	0%	82%
Modified	**0.609014**	**0.040088**	**0.198507**	**0.128093**	**0.017799**	**0**	**0**	**0**	**0**	**0**	**0.006500**	**0**	**0**	**100.0%**
Final Check Trips	1,390	91	453	292	41	0	0	0	0	0	15	0	0	2,282

Changes to the CalEEMod Defaults - Unrefrigerated Warehouse Fleet Mix 2022 (Trucks)

						Truck ADT:	514							
						Total ADTs:	2,796							
Commercial Default	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
FleetMix (Model Default)	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944	100%
Trips	1,547	102	504	325	45	14	51	178	4	4	17	2	3	2,796
Percent	91%					3%		6%						100%
Proportion	0.609014	0.040088	0.198507	0.128093	0.017799	0.182224	0.650806	1.000000	0.048476	0.055907	0.006500	0.028864	0.033723	
Assumed Mix	81.62%					7.65%		10.73%						100.00%
adjusted with Assumed	0	0	0	0	0	0.013947	0.049811	0.107296	0.003710	0.004279	0	0.002209	0.002581	18%
Trips	0	0	0	0	0	39	139	300	10	12	0	6	7	514
	0%	0%	0%	0%	0%	1%	5%	11%	0%	0%	0%	0%	0%	18%
Modified	**0.000000**	**0.000000**	**0.000000**	**0.000000**	**0.000000**	**0.075868**	**0.270958**	**0.583658**	**0.020183**	**0.023276**	**0.000000**	**0.012017**	**0.014040**	**100.0%**
Trips Check	0	0	0	0	0	39	139	300	10	12	0	6	7	514
Assumed MDV/HDT Mix	0%					41.63%		58.37%						
MDT truck adjustment (no buses or MH)						0.075868	0.270958		0	0	0	0	0	35%
Adjusted MHD Fleet Mix						0.218749	0.781251		0	0	0	0	0	100%
Assumed Truck Mix	**0**	**0**	**0**	**0**	**0**	**0.091074**	**0.325268**	**0.583658**	**0**	**0**	**0**	**0**	**0**	
Trips - Final Check				0	0	47	167	300	0	0	0	0	0	514

Changes to the CalEEMod Defaults - Refrigerated Warehouse Fleet Mix 2022 (Passenger Cars)

Passenger ADT: 288
Total ADTs: 426

Commercial Default	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
FleetMix (Model Default)	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944	100%
Trips	236	16	77	50	7	2	8	27	1	1	3	0	0	426
Percent	91%					3%		6%						100%
Proportion	0.609014	0.040088	0.198507	0.128093	0.017799	0.182224	0.650806	1.000000	0.048476	0.055907	0.006500	0.028864	0.033723	
Assumed Mix	67.61%					15.02%		17.37%						100.00%
adjusted with Assumed	0.411728	0.027102	0.134202	0.086598	0.012033	0	0	0	0	0	0.004394	0	0	68%
Trips	175	12	57	37	5	0	0	0	0	0	2	0	0	288
	41%	3%	13%	9%	1%	0%	0%	0%	0%	0%	0%	0%	0%	68%
Modified	**0.609014**	**0.040088**	**0.198507**	**0.128093**	**0.017799**	**0**	**0**	**0**	**0**	**0**	**0.006500**	**0**	**0**	**100.0%**
Final Check Trips	175	12	57	37	5	0	0	0	0	0	2	0	0	288

Changes to the CalEEMod Defaults - Refrigerated Warehouse Fleet Mix 2020 (Trucks)

						Truck ADT:	138							
						Total ADTs:	426							
Commercial Default	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
FleetMix (Model Default)	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944	100%
Trips	236	16	77	50	7	2	8	27	1	1	3	0	0	426
Percent	91%					3%		6%						100%
Proportion	0.609014	0.040088	0.198507	0.128093	0.017799	0.182224	0.650806	1.000000	0.048476	0.055907	0.006500	0.028864	0.033723	
Assumed Mix	67.61%					15.02%		17.37%						100.00%
adjusted with Assumed	0	0	0	0	0	0.027376	0.097774	0.173709	0.007283	0.008399	0	0.004336	0.005066	32%
Trips	0	0	0	0	0	12	42	74	3	4	0	2	2	138
	0%	0%	0%	0%	0%	3%	10%	17%	1%	1%	0%	0%	1%	32%
Modified	**0.000000**	**0.000000**	**0.000000**	**0.000000**	**0.000000**	**0.084510**	**0.301823**	**0.536232**	**0.022482**	**0.025928**	**0.000000**	**0.013386**	**0.015640**	**100.0%**
Trips Check	0	0	0	0	0	12	42	74	3	4	0	2	2	138
Assumed MDV/HDT Mix	0%					46.38%		53.62%						
MDT truck adjustment (no buses or MH)						0.084510	0.301823		0	0	0	0	0	39%
Adjusted MHD Fleet Mix						0.218749	0.781251		0	0	0	0	0	100%
Assumed Truck Mix	**0**	**0**	**0**	**0**	**0**	**0.101449**	**0.362319**	**0.536232**	**0**	**0**	**0**	**0**	**0**	
Trips - Final Check				0	0	14	50	74	0	0	0	0	0	138

Changes to the CalEEMod Defaults - Office Park Fleet Mix 2022 (Passenger Cars)

Passenger ADT:	962
Total ADTs:	1,106

Commercial Default	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
FleetMix (Model Default)	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944	100%
Trips	612	40	199	129	18	6	20	71	2	2	7	1	1	1,106
Percent	91%					3%		6%						100%
Proportion	0.609014	0.040088	0.198507	0.128093	0.017799	0.182224	0.650806	1.000000	0.048476	0.055907	0.006500	0.028864	0.033723	
Assumed Mix	86.98%					4.88%		8.14%						100.00%
adjusted with Assumed	0.529721	0.034868	0.172662	0.111415	0.015481	0	0	0	0	0	0.005653	0	0	87%
Trips	586	39	191	123	17	0	0	0	0	0	6	0	0	962
	53%	3%	17%	11%	2%	0%	0%	0%	0%	0%	1%	0%	0%	87%
Modified	**0.609014**	**0.040088**	**0.198507**	**0.128093**	**0.017799**	**0**	**0**	**0**	**0**	**0**	**0.006500**	**0**	**0**	**100.0%**
Final Check Trips	586	39	191	123	17	0	0	0	0	0	6	0	0	962

CalEEMod Project Characteristics Inputs (Construction - Offsite)

Name:	Ontario Ranch Specific Plan EIR
Project Location:	
County/Air Basin:	San Bernardino County - SC
Climate Zone:	10
Land Use Setting:	Urban
Operational Year:	
Utility Company:	SCE
Air Basin:	SoCAB
Air District:	SCAQMD
SRA:	33 - Southwest San Bernardino Valley

Total Project Site Area 16.30 acres

Other Use		
Non-Parking Asphalt	576,000	square feet (SF)
Hardscape	45,000	SF
Landscaping	88,811	SF

CalEEMod Land Use Inputs

Land Use	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Non-Parking Asphalt	Parking	Other Asphalt	13.223	acres	13.22	576,000
Landscaping/Hardscape	Parking	Other Non-Asphalt	3.072	acres	3.07	133,811
					16.30	

Construction - Unmitigated Run

SCAQMD Rule 403

Replace Ground Cover	PM10:	5	% Reduction
	PM25:	5	% Reduction
Water Exposed Area	Frequency:	2	per day
	PM10:	55	% Reduction
	PM25:	55	% Reduction
Unpaved Roads	Vehicle Speed:	15	mph

SCAQMD Rule 1186

Clean Paved Road 9 % PM Reduction

CalEEMod Project Characteristics Inputs (Construction - Onsite)

Name:	Ontario Ranch Specific Plan EIR
Project Location:	
County/Air Basin:	San Bernardino County - SC
Climate Zone:	10
Land Use Setting:	Urban
Operational Year:	
Utility Company:	SCE
Air Basin:	SoCAB
Air District:	SCAQMD
SRA:	33 - Southwest San Bernardino Valley

Total Project Site Area 62.00 acres

	Warehouse	Office	Total	
Building 1	540,964	60,000	600,964	BSF
Building 2	558,353	60,000	618,353	BSF
Building 3	207,806	20,000	227,806	BSF
Total	**1,307,123**	**140,000**	**1,447,123**	

Proposed Use	CalEEMod Land Use	Square Footage
High-Cube Fulfillment Warehouse	Unrefrigerated Warehouse-No Rail	1,019,317
High-Cube Cold Storage Warehouse	Refrigerated Warehouse-No Rail	200,000
Warehousing	Unrefrigerated Warehouse-No Rail	227,806
Other Use		
Parking Lot	275,315	
Non-Parking Asphalt	706,467	
Hardscape	10,000	
Landscaping	282,958	

CalEEMod Land Use Inputs

Land Use	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Warehouse	Industrial	Unrefrigerated Warehouse-No Rail	1,247.123	1000 sqft	28.14	1,247,123
Warehouse	Industrial	Refrigerated Warehouse-No Rail	200.000	1000 sqft	4.59	200,000
Parking Lot	Parking	Parking Lot	6.320	acres	6.32	275,315
Hardscape	Parking	Other Asphalt	16.218	acres	16.22	706,467
Landscaping	Parking	Other Non-Asphalt	6.725	acres	6.73	292,958
					62.00	

Demolition Haul

Phases	Amount to be Hauled (tons)	Haul Truck Capacity (tons)*	Haul Distance (miles)*	Total Trip Ends	Duration (days)	Trip Ends/Day
Building Demo Debris Haul	28	20	14	4	1	4

Phases	Amount to be Hauled (tons)*	Haul Truck Capacity (tons)*	Haul Distance (mile)*	Total Trip Ends	Duration (days)	Trip Ends/Day
Ashalt Demo Debris Haul	211	20	105.00	22	3	8

**Provided by the Applicant.*

Soil Haul (Rough Grading Soil Haul)

Activity	Total Export Volume (CY)*	Haul Truck Capacity (CY)*	Haul Distance (miles)*	Total Trip Ends	Total Days*	Trip Ends/Day
Rough Grading	25,000	14	10	3,572	31	116

**Based on information provided by the Applicant.*

Architectural Coating

Percentage of Buildings' Exterior	100%	percent
Percentage of Buildings' Interior	100%	percent
CalEEMod Default		
Exterior Paint VOC content:	100	grams per liter
Interior Paint VOC content:	100	grams per liter

**Provided by the Applicant.*

Structures	Land Use Square Feet	CalEEMod Paintable Surface Area Multiplier	Total Paintable Surface Area	Paintable Interior Area[1]	Paintable Exterior Area[1]
Warehouse	1,447,123	2.0	2,894,246	2,170,685	723,562
			Non-Residential Total:	2,170,685	723,562
Surface Parking	275,315	0.06	16,519	0	16,519

[1] CalEEMod methodology calculates the paintable interior and exterior areas of a building by multiplying the total paintable surface area by 75 and 25 percent, respectively. For parking lots, the paintable surface area is based on 6 percent of the total surface area of the parking lot.

Construction - Unmitigated Run

SCAQMD Rule 403

Replace Ground Cover	PM10:	5	% Reduction
	PM25:	5	% Reduction
Water Exposed Area	Frequency:	2	per day
	PM10:	55	% Reduction
	PM25:	55	% Reduction
Unpaved Roads	Vehicle Speed:	15	mph

SCAQMD Rule 1186

Clean Paved Road	9	% PM Reduction

CalEEMod Project Characteristics Inputs (Construction)

Name:	Ontario Ranch Specific Plan EIR
County/Air Basin:	San Bernardino County - SC
Climate Zone:	10
Land Use Setting:	Urban
Operational Year:	
Utility Company:	SCE
Air Basin:	SoCAB
Air District:	SCAQMD
SRA:	33 - Southwest San Bernardino Valley

Total Project Site Area 23.00 acres

	Warehouse	Office	Total	
Building 4	110,030	20,000	130,030	BSF
Building 5	59,200	20,000	79,200	BSF
Building 6	30,900	16,000	46,900	BSF
Building 7	75,624	20,000	95,624	BSF
Building 8	86,150	20,000	106,150	BSF
Total	**361,904**	**96,000**	**457,904**	

Other Use	
Parking Lot	78,451
Non-Parking Asphalt	344,070
Hardscape	15,000
Landscaping	158,784

CalEEMod Land Use Inputs

Land Use	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Warehouse	Industrial	Unrefrigerated Warehouse-No Rail	457.904	1000 sqft	9.31	457,904
Parking Lot	Parking	Parking Lot	1.801	acres	1.80	78,451
Hardscape	Parking	Other Asphalt	7.899	acres	7.90	344,070
Landscaping	Parking	Other Non-Asphalt	3.990	acres	3.99	173,784
					23.00	0

Demolition Haul

Phases	Amount to be Hauled (tons)	Haul Truck Capacity (tons)*	Haul Distance (miles)*	Total Trip Ends	Duration (days)	Trip Ends/Day
Building Demo Debris Haul	28	20	14	4	1	4

Phases	Amount to be Hauled (tons)*	Haul Truck Capacity (tons)*	Haul Distance (mile)*	Total Trip Ends	Duration (days)	Trip Ends/Day
Ashalt Demo Debris Haul	70	20	35	8	1	8

**Provided by the Applicant.*

Soil Haul (Rough Grading Soil Haul)

Activity	Total Export Volume (CY)*	Haul Truck Capacity (CY)**	Haul Distance (miles)*	Total Trip Ends	Total Days*	Trip Ends/Day
Rough Grading	15,000	14	10	2,143	19	115

**Based on information provided by the Applicant.*
*** CalEEMod Default*

Architectural Coating

Percentage of Buildings' Exterior	100%	percent
Percentage of Buildings' Interior	100%	percent
CalEEMod Default		
Exterior Paint VOC content:	50	grams per liter
Interior Paint VOC content:	50	grams per liter

**Provided by the Applicant.*

Structures	Land Use Square Feet	CalEEMod Paintable Surface Area Multiplier	Total Paintable Surface Area	Paintable Interior Area[1]	Paintable Exterior Area[1]
Warehouse	457,904	2.0	915,808	686,856	228,952
			Non-Residential Total:	686,856	228,952
Surface Parking	78,451	0.06	4,707	0	4,707

[1] CalEEMod methodology calculates the paintable interior and exterior areas of a building by multiplying the total paintable surface area by 75 and 25 percent, respectively. For parking lots, the paintable surface area is based on 6 percent of the total surface area of the parking lot.

Construction - Unmitigated Run

SCAQMD Rule 403

Replace Ground Cover	PM10:	5	% Reduction
	PM25:	5	% Reduction
Water Exposed Area	Frequency:	2	per day
	PM10:	55	% Reduction
	PM25:	55	% Reduction
Unpaved Roads	Vehicle Speed:	15	mph

SCAQMD Rule 1186

Clean Paved Road 9 % PM Reduction

Construction Activities and Schedule Assumptions*

* Based on information provided

Construction Activities	Construction Schedule			
	Start Date	End Date	Duration (Calendar Days)	Duration (Work Days)
Offsite Area				
Asphalt Demolition	10/1/2020	10/28/2020	27	20
Onsite Processing	10/1/2020	10/28/2020	27	20
Utility Trenching	1/2/2021	9/1/2021	242	173
Fine Grading	9/1/2021	10/31/2021	60	43
Asphalt Paving	11/1/2021	11/30/2021	29	22
Finishing/Landscaping	11/1/2021	1/31/2022	91	66
Phase 1 - Onsite Area				
Building Demolition	10/5/2020	10/16/2020	11	10
Demo Debris Haul	10/19/2020	10/19/2020	0	1
Onsite Processing	10/19/2020	10/19/2020	0	1
Asphalt Demolition	10/19/2020	11/30/2020	42	31
Demo Debris Haul	11/25/2020	11/27/2020	2	3
Onsite Processing	11/24/2020	11/30/2020	6	5
Rough Grading	12/1/2020	1/11/2021	41	30
Grading Soil Haul	12/1/2020	1/13/2021	43	31
Utility Trenching	1/12/2021	3/12/2021	59	44
Building Construction	1/12/2021	12/21/2021	343	246
Fine Grading	3/15/2021	4/1/2021	17	14
Finishing/Landscaping	8/2/2021	10/25/2021	84	61
Asphalt Paving	9/1/2021	9/10/2021	9	8
Architectural Coating	9/13/2021	11/12/2021	60	45
Phase 2				
Building Demolition	10/5/2020	10/9/2020	4	5
Demo Debris Haul	10/19/2020	10/19/2020	0	1
Onsite Processing	10/19/2020	10/19/2020	0	1
Asphalt Demolition	10/19/2020	11/13/2020	25	20
Demo Debris Haul	11/25/2020	11/25/2020	0	1
Onsite Processing	11/25/2020	11/26/2020	1	2
Rough Grading	1/3/2022	1/21/2022	18	15
Grading Soil Haul	1/3/2022	1/27/2022	24	19
Building Construction	1/24/2022	12/1/2022	311	224
Utility Trenching	1/24/2022	3/2/2022	37	28
Fine Grading	3/3/2022	3/14/2022	11	8
Architectural Coating	8/1/2022	9/30/2022	60	45
Finishing/Landscaping	8/1/2022	11/24/2022	115	84
Asphalt Paving	9/1/2022	9/7/2022	6	5

	Daily Worker Trips	Daily Vendor Trips	Daily Haul Trips	Total Haul Trips	Start	End	Duration
Offsite Area							
Asphalt Demolition	30	6	0		2020/10/01	2020/10/28	20
Asphalt Demolition Debris Reprocessing	*3*	*0*	0		2020/10/01	2020/10/28	20
Utility Trenching	30	6	0		2021/01/02	2021/09/01	173
Fine Grading	30	6	0		2021/09/01	2021/10/31	43
Asphalt Paving	30	12	0		2021/11/01	2021/11/30	22
Finishing/Landscaping	30	0	0		2021/11/01	2022/01/31	66
Phase 1 - Onsite Area							
Building Demolition	20	8	0	0	2020/10/05	2020/10/16	10
Building Demo Haul	*6*	*0*	4	*4*	2020/10/19	2020/10/19	1
Building Demo Reprocessing	*3*	*0*	0	*0*	2020/10/19	2020/10/19	1
Asphalt Demolition	20	10	0	0	2020/10/19	2020/11/30	31
Asphalt Demo Reprocessing	*3*	*0*	0	*0*	2020/11/24	2020/11/30	5
Asphalt Demo Haul	*6*	*0*	8	*22*	2020/11/25	2020/11/27	3
Rough Grading	36	14	0	0	2020/12/01	2021/01/11	30
Rough Grading Soil Haul	*3*	*0*	116	*3572*	2020/12/01	2021/01/12	31
Utility Trenching	32	10	0	0	2021/01/12	2021/03/12	44
Building Construction	60	12	0	0	2021/01/12	2021/12/21	246
Fine Grading	36	8	0	0	2021/03/15	2021/04/01	14
Finishing/Landscaping	20	6	0	0	2021/08/02	2021/10/25	61
Paving	20	120	0	0	2021/09/01	2021/09/10	8
Architectural Coating	12	0	0	0	2021/09/13	2021/11/12	45
Phase 2							
Building Demolition	12	8	0	0	2020/10/05	2020/10/09	5
Building Demolition Debris Haul	*5*	*0*	4	*4*	2020/10/19	2020/10/19	1
Building Demolition Debris Reprocessing	*12*	*0*	0	*0*	2020/10/19	2020/10/19	1
Asphalt Demolition	20	14	0	0	2020/10/19	2020/11/13	20
Asphalt Demolition Debris Haul	*12*	*0*	8	*8*	2020/11/25	2020/11/25	1
Asphalt Demolition Debris Reprocessing	*3*	*0*	0	*0*	2020/11/25	2020/11/26	2
Rough Grading	36	14	0	0	2022/01/03	2022/01/21	15
Rough Grading Soil Haul	*3*	*0*	114	*2143*	2022/01/03	2022/01/27	19
Building Construction	60	2	0	0	2022/01/24	2022/12/01	224
Utility Trenching	32	10	0	0	2022/01/24	2022/03/02	28
Fine Grading	36	8	0	0	2022/03/03	2022/03/14	8
Architectural Coating	12	0	0	0	2022/08/01	2022/09/30	45
Finishing/Landscaping	20	6	0	0	2022/08/01	2022/11/24	84
Asphalt Paving	20	104	0	0	2022/09/01	2022/09/07	5

Construction Scenario	Daily Worker Trips	Daily Vendor Trips	Daily Haul Trips	Total Daily Trips	Start Date	End Date	Workdays
Offsite Asphalt Demolition & Offsite Asphalt Demolition Debris Processing Overlap	33	6	0	39	10/1/2020	10/4/2020	2
Offsite Asphalt Demolition, Offsite Asphalt Demolition Debris Processing, Phase 1 Building Demolition, & Phase 2 Building Demolition Overlap	65	22	0	87	10/5/2020	10/9/2020	5
Offsite Asphalt Demolition, Offsite Asphalt Demolition Debris Processing & Phase 1 Building Demolition Overlap	53	14	0	67	10/10/2020	10/16/2020	5
Offsite Asphalt Demolition & Offsite Asphalt Demolition Debris Processing Overlap	33	6	0	39	10/17/2020	10/18/2020	0
Offsite Asphalt Demolition, Offsite Asphalt Demolition Debris Processing, Phase 1 Building Demolition Debris Processing, Phase 1 Building Demolition Debris Haul, Phase 1 Asphalt Demolition, Phase 2 Building Demolition Debris Haul, Phase 2 Building Demolition Debris Processing, & Phase 2 Asphalt Demolition Overlap	99	30	8	137	10/19/2020	10/19/2020	1
Offsite Asphalt Demolition, Offsite Asphalt Demolition Debris Processing, Phase 1 Asphalt Demolition, & Phase 2 Asphalt Demolition Overlap	73	30	0	103	10/20/2020	10/28/2020	7
Phase 1 Asphalt Demolition & Phase 2 Asphalt Demolition Overlap	40	24	0	64	10/29/2020	11/13/2020	12
Phase 1 Asphalt Demolition	20	10	0	30	11/14/2020	11/23/2020	6
Phase 1 Asphalt Demolition & Phase 1 Asphalt Demolition Debris Processing Overlap	23	10	0	33	11/24/2020	11/24/2020	1
Phase 1 Asphalt Demolition, Phase 1 Asphalt Demolition Debris Processing, Phase 1 Asphalt Demolition Debris Haul, Phase 2 Asphalt Demolition Debris Haul, & Phase 2 Asphalt Demolition Debris Processing Overlap	44	10	16	70	11/25/2020	11/25/2020	1
Phase 1 Asphalt Demolition, Phase 1 Asphalt Demolition Debris Processing, Phase 1 Asphalt Demolition Debris Haul, & Phase 2 Asphalt Demolition Debris Processing Overlap	32	10	8	50	11/26/2020	11/26/2020	1
Phase 1 Asphalt Demolition, Phase 1 Asphalt Demolition Debris Processing, & Phase 1 Asphalt Demolition Debris Haul Overlap	29	10	8	47	11/27/2020	11/27/2020	1
Phase 1 Asphalt Demolition & Phase 1 Asphalt Demolition Debris Processing Overlap	23	10	0	33	11/28/2020	11/30/2020	1
Phase 1 Rough Grading & Phase 1 Rough Grading Soil Haul Overlap	39	14	116	169	12/1/2020	12/31/2020	23
Phase 1 Rough Grading & Phase 1 Rough Grading Soil Haul Overlap	39	14	116	169	1/1/2021	1/1/2021	1
Phase 1 Rough Grading, Phase 1 Rough Grading Soil Haul, & Offsite Utility Trenching Overlap	69	20	116	205	1/2/2021	1/11/2021	6
Phase 1 Rough Grading Soil Haul, Offsite Utility Trenching, Phase 1 Utility Trenching, & Phase 1 Building Construction Overlap	125	28	116	269	1/12/2021	1/13/2021	2

Offsite Utility Trenching, Phase 1 Utility Trenching, & Phase 1 Building Construction Overlap	122	28	0	150	1/14/2021	3/12/2021	42
Offsite Utility Trenching & Phase 1 Building Construction Overlap	90	18	0	108	3/13/2021	3/14/2021	0
Offsite Utility Trenching, Phase 1 Building Construction, & Phase 1 Fine Grading Overlap	126	26	0	152	3/15/2021	4/1/2021	14
Offsite Utility Trenching & Phase 1 Building Construction Overlap	90	18	0	108	4/2/2021	8/1/2021	86
Offsite Utility Trenching, Phase 1 Building Construction, & Phase 1 Finishing/Landscaping Overlap	110	24	0	134	8/2/2021	8/31/2021	22
Offsite Utility Trenching, Phase 1 Building Construction, Phase 1 Finishing/Landscaping, Offsite Fine Grading, & Phase 1 Asphalt Paving Overlap	160	150	0	**310**	9/1/2021	9/1/2021	1
Phase 1 Building Construction, Phase 1 Finishing/Landscaping, Offsite Fine Grading, & Phase 1 Asphalt Paving Overlap	130	144	0	274	9/2/2021	9/10/2021	7
Phase 1 Building Construction, Phase 1 Finishing/Landscaping, & Offsite Fine Grading Overlap	110	24	0	134	9/11/2021	9/12/2021	0
Phase 1 Building Construction, Phase 1 Finishing/Landscaping, Offsite Fine Grading, & Phase 1 Architectural Coating Overlap	122	24	0	146	9/13/2021	10/25/2021	31
Phase 1 Building Construction, Offsite Fine Grading, & Phase 1 Architectural Coating Overlap	102	18	0	120	10/26/2021	10/31/2021	4
Phase 1 Building Construction, Phase 1 Architectural Coating, Offsite Asphalt Paving, & Offsite Finishing/Landscaping Overlap	132	24	0	156	11/1/2021	11/12/2021	10
Phase 1 Building Construction, Offsite Asphalt Paving, & Offsite Finishing/Landscaping Overlap	120	24	0	144	11/13/2021	11/30/2021	12
Phase 1 Building Construction & Offsite Finishing/Landscaping Overlap	90	12	0	102	12/1/2021	12/21/2021	15
Offsite Finishing/Landscaping	30	0	0	30	12/22/2021	12/31/2021	8
Offsite Finishing/Landscaping	30	0	0	30	1/1/2022	1/2/2022	0
Offsite Finishing/Landscaping, Phase 2 Rough Grading, & Phase 2 Rough Grading Soil Haul Overlap	69	14	114	197	1/3/2022	1/21/2022	15
Offsite Finishing/Landscaping & Phase 2 Rough Grading Soil Haul Overlap	33	0	114	147	1/22/2022	1/23/2022	0
Offsite Finishing/Landscaping, Phase 2 Rough Grading Soil Haul, Phase 2 Utility Trenching, & Phase 2 Building Construction Overlap	125	12	114	251	1/24/2022	1/27/2022	4
Offsite Finishing/Landscaping, Phase 2 Utility Trenching, Phase 2 Building Construction Overlap	122	12	0	134	1/28/2022	1/31/2022	2
Phase 2 Utility Trenching & Phase 2 Building Construction Overlap	92	12	0	104	2/1/2022	3/2/2022	22
Phase 2 Building Construction & Phase 2 Fine Grading Overlap	96	10	0	106	3/3/2022	3/14/2022	8
Phase 2 Building Construction	60	2	0	62	3/15/2022	7/31/2022	99
Phase 2 Building Construction, Phase 2 Finishing/Landscaping, & Phase 2 Architectural Coating Overlap	92	8	0	100	8/1/2022	8/31/2022	23
Phase 2 Building Construction, Phase 2 Finishing/Landscaping, Phase 2 Architectural Coating, & Phase 2 Asphalt Paving Overlap	112	112	0	224	9/1/2022	9/7/2022	5
Phase 2 Building Construction, Phase 2 Finishing/Landscaping, & Phase 2 Architectural Coating Overlap	92	8	0	100	9/8/2022	9/30/2022	17
Phase 2 Building Construction & Phase 2 Finishing/Landscaping Overlap	80	8	0	88	10/1/2022	11/24/2022	39
Phase 2 Building Construction	60	2	0	62	11/25/2022	12/1/2022	5
Max Daily	**160**	**150**	**116**	**310**			

CalEEMod Construction Off-Road Equipment Inputs: Offsite Area

*Based on comparable water pipeline project, unless otherwise noted.

Equipment Type	CalEEMod Equipment Type	Unit Amount	Hours/Day	HP	LF*	Tier Rating	Worker Trips	CalEEMod Vendor Trips
Asphalt Demolition							**Default**	**Default+6**
Dozer	Rubber Tired Dozers	1	8	247	0.4			
Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	8	97	0.37			
End Dump	Dumper/Tender	1	8	16	0.38			2
Water Truck*		1						4
Asphalt Demolition Debris Reprocessing**							**Default**	**Default**
Power Screen Crusher 320 SR	Crushing/Proc. Equipment	1	8	325	0.78			
Utility Trenching							**Default**	**Default+6**
Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	8	97	0.37			
Concrete Saw	Concrete/Industrial Saw	1	8	81	0.73			
Excavator	Excavator	1	8	158	0.3819			
Cranes	Cranes	1	8	231	0.29			
End Dump	Dumper/Tender	1	8	16	0.38			2
Water Truck*		1						4
Fine Grading							**Default**	**Default+6**
Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	8	97	0.37			
Hydraulic Jackhammer	Air Compressor	1	8	78	0.48			
Concrete Saw	Concrete/Industrial Saw	1	8	81	0.73			
End Dump	Dumper/Tender	1	8	16	0.38			2
Water Truck*		1						4
Asphalt Paving							**Default**	**Default+2**
Asphalt Paving Equipment	Paving Equipment	1	8	132	0.3551			
Steam Roller	Roller	2	8	80	0.3752			
Concrete Truck	Cement/Mortar Mixer	1	8	9	0.56			2
Finishing/Landscaping**							**Default**	**Default**
Cat 450F Backhoe	Tractor/Loader/Backhoe	1	8	127	0.37			
Cat 950K Loader	Tractor/Loader/Backhoe	1	8	230	0.37			
Cat 414EL Skip Loader	Tractor/Loader/Backhoe	1	8	93	0.37			

*Assumes use of one water truck and four trips per truck.

**Utlizes off-road construction equipment mix provided for Phase 1.

CalEEMod Construction Off-Road Equipment Inputs: Phase 1*

*Based on information provided unless otherwise noted.

Equipment Type	CalEEMod Equipment Type	Unit Amount	Hours/Day	HP	LF*	Tier Rating	Worker Trips	CalEEMod Vendor Trips
Building Demolition							**20**	**8**
Cat 966G Loader	Tractor/Loader/Backhoe	2	8	260	0.37	3		
Cat 336EL Excavator	Excavator	2	8	300	0.38	4		
Foreman's Pick-up F150		1						
Ford F750 2000 Gallon Water Truck V8	Water Truck	2	8					8
Building Demolition Debris Haul							**6**	**0**
Cat 336EL Excavator	Excavator	1	8	300	0.38	4		
Building Demolition Debris Reprocessing							**Default**	**Default**
Power Screen Crusher 320 SR	Crushing/Proc. Equipment	1	8	325	0.78	4		
Asphalt Demolition							**20**	**10**
Cat 966G Loader	Tractor/Loader/Backhoe	2	8	260	0.37	3		
Cat 336EL Excavator	Excavator	2	8	300	0.38	4		
Foreman's Pick-up F150		1	8					
Ford F750 2000 Gallon Water Truck V8	Water Truck	2	8					8
Asphalt Demolition Debris Haul							**6**	**0**
No Additional Equipment								
Asphalt Demolition Debris Reprocessing							**Default**	**Default**
Power Screen Crusher 320 SR	Crushing/Proc. Equipment	1	8	325	0.78	4		
Rough Grading*							**36**	**14**
Cat 633 Motor Scraper	Scraper	6	8	270	0.48	4		
Cat D-6T Dozer	Crawler Tractor	1	8	257	0.43	4		
Cat 834K Rubber Tire Dozer	Rubber Tired Loader	2	8	196	0.4	4		
Cat 14M3 Blade (Motor Grader)	Grader	2	8	238	0.41	4		
Foreman's Pick-up F150		1						
Ford F750 2000 Gallon Water Truck	Water Truck	3	8					12
Rough Grading Soil Haul***							**Default**	**Default**
Cat 336EL Excavator	Excavator	1	8	300	0.38	4		
Utility Trenching							**32**	**10**
Cat 336EL Excavator	Excavator	2	8	300	0.38	4		
Cat 950K Loader	Tractor/Loader/Backhoe	2	8	230	0.37	4		
Cat 414EL Skip Loader	Tractor/Loader/Backhoe	1	8	93	0.37	3		
Ford F350 Crew Truck		1	8					
Foreman's Pick-up F150		1	8					
Ford F750 2000 Gallon Water Truck	Water Truck	2	8					8
Building Construction							**60**	**12**
Mobile Crane	Crane	1	8	110	0.29	3		
Crane	Crane	2	8	93	0.29	3		
Extended Reach Forklift	Rough Terrain Forklift	2	8	238	0.4	4		
Foreman's Pick-up F150		1	8	375				
Delivery Truck		5	8	385				10
Ford F350 Crew Truck		1	8	270				
Foreman's Pick-up F150		1	8	375				
Fine Grading							**36**	**8**
Cat 14M3 Blade (Motor Grader)	Grader	2	8	238	0.41	4		
Cat 623K Motor Scraper	Scraper	1	8	240	0.48	4		
Ford F750 2000 Gallon Water Truck	Water Truck	2	8					8
Finishing/Landscaping							**20**	**6**
Cat 450F Backhoe	Tractor/Loader/Backhoe	1	8	127	0.37	4		
Cat 950K Loader	Tractor/Loader/Backhoe	1	8	230	0.37	4		
Cat 414EL Skip Loader	Tractor/Loader/Backhoe	1	8	93	0.37	3		
Ford F350 Crew Truck		1	8	385				
Foreman's Pick-up F150		1	8	375				
Ford F750 2000 Gallon Water Truck		1	8	270				4
Asphalt Paving							**20**	**120**
Cat 14M3 Blade (Motor Grader)	Grader	1	8	238	0.41	4		
Cat AP655F Paving Machine	Paver	1	8	173	0.42	4		
Cat CB44B Vibratory Roller	Roller	1	8	110	0.38	3		
Foreman's Pick-up F150		1	8	375				
Architectural Coating******							12	
Air Compressors	Air Compressors	1	6	78	0.48	4		

*Based on information provided by the Applicant.

**Assumes use of one water truck and four trips per truck.

***Assumes 1 excavator

****Construction worker trips assumed to be 20 percent of the worker trips assumed for the Building Construction phase per CalEEMod methodology.

CalEEMod Construction Off-Road Equipment Inputs: Phase 2*

*Based on information provided unless otherwise noted.

Equipment Type	CalEEMod Equipment Type	Unit Amount	Hours/Day	HP	LF*	Tier Rating	Worker Trips	CalEEMod Vendor Trips
Building Demolition							**12**	**8**
Cat 966G Loader	Tractor/Loader/Backhoe	2	8	260	0.37	3		
Cat 336EL Excavator	Excavator	2	8	300	0.38	4		
Foreman's Pick-up F150								
Ford F750 2000 Gallon Water Truck V8	Water Truck	2	8					8
Building Demolition Debris Haul							**12**	**Default**
Cat 336EL Excavator	Excavator	2	8	300	0.38	4		
Building Demolition Debris Reprocessing							**Default**	**Default**
Power Screen Crusher 320 SR		1	8	325		4		
Asphalt Demolition							**20**	**14**
Cat 966G Loader	Tractor/Loader/Backhoe	2	8	260	0.37	3		
Cat 336EL Excavator	Excavator	2	8	300	0.38	4		
Foreman's Pick-up F150		1	8					
Ford F750 2000 Gallon Water Truck V8	Water Truck	2	8					8
Asphalt Demolition Debris Haul							**12**	**0**
Cat 336EL Excavator	Excavator	2	8	300	0.38	4		
Asphalt Demolition Debris Reprocessing							**Default**	**Default**
Power Screen Crusher 320 SR	Crushing/Proc. Equipment	1	8	325	0.78	4		
Rough Grading*							**36**	**14**
Cat 633 Motor Scraper	Scraper	6	8	270	0.48	4		
Cat D-6T Dozer	Crawler Tractor	1	8	257	0.43	4		
Cat 834K Rubber Tire Dozer	Rubber Tired Dozer	2	8	196	0.4	4		
Cat 14M3 Blade (Motor Grader)	Grader	2	8	238	0.41	4		
Foreman's Pick-up F150		1						
Ford F750 2000 Gallon Water Truck	Water Truck	3	8					12
Rough Grading Soil Haul***							**Default**	**Default**
Cat 336EL Excavator	Excavator	1	8	300	0.38	4		
Building Construction							**60**	**2**
Extended Reach Forklift	Rough Terrain Forklift	2	8	238	0.4	4		
Mobile Crane	Crane	1	8	110	0.29	3		
Crane	Crane	2	8	93	0.29	3		
Foreman's Pick-up F150		1	8	375				
Delivery Truck		5	8	385				
Ford F350 Crew Truck		1	8	270				
Foreman's Pick-up F150		1	8	375				
Utility Trenching							**32**	**10**
Cat 336EL Excavator	Excavator	2	8	300	0.38	4		
Cat 950K Loader	Tractor/Loader/Backhoe	2	8	230	0.37	4		
Cat 414EL Skip Loader	Tractor/Loader/Backhoe	1	8	93	0.37	3		
Ford F350 Crew Truck		1	8					
Foreman's Pick-up F150		1	8					
Ford F750 2000 Gallon Water Truck	Water Truck	2	8					8
Fine Grading							**36**	**8**
Cat 14M3 Blade (Motor Grader)	Grader	2	8	238	0.41	4		
Cat 623K Motor Scraper	Scraper	1	8	240	0.48	4		
Ford F750 2000 Gallon Water Truck	Water Truck	2	8					8
Architectural Coating							**12**	**Default**
Air Compressors	Air Compressors	1	6	78	0.48	4		
Finishing/Landscaping							**20**	**6**
Cat 450F Backhoe	Tractor/Loader/Backhoe	1	8	127	0.37	4		
Cat 950K Loader	Tractor/Loader/Backhoe	1	8	230	0.37	4		
Cat 414EL Skip Loader	Tractor/Loader/Backhoe	1	8	93	0.37	3		
Ford F350 Crew Truck		1	8	385				
Foreman's Pick-up F150		1	8	375				
Ford F750 2000 Gallon Water Truck		1	8	270				4
Asphalt Paving							**20**	**104**
Cat 14M3 Blade (Motor Grader)	Grader	1	8	238	0.41	4		
Cat AP655F Paving Machine	Paver	1	8	173	0.42	4		
Cat CB44B Vibratory Roller	Roller	1	8	110	0.38	3		
Foreman's Pick-up F150		1	8	375				

*Based on information provided by the Applicant.

**Assumes use of one water truck and four trips per truck.

***Assumes 1 excavator.

EMFAC2017 Derived CalEEMod Annual Emission Rates: Year 2022[1,2]

Season	Pollutant	LDA	LDT1	LDT2	MDV	LHDT1	LHDT2	MHDT	HHDT	OBUS	UBUS	MCY	SBUS	MH
Annual	CH4_IDLEX	0	0	0	0	0.0050851	0.003695113	0.002506877	0.029356376	0.0088195	0	0	0.0596216	0
Annual	CH4_RUNEX	0.002511	0.007576	0.0044093	0.0055203	0.0061022	0.004104298	0.003321213	0.13599332	0.0065956	4.4471247	0.3403666	0.0085844	0.0036581
Annual	CH4_STREX	0.0501486	0.0826572	0.0709165	0.0880071	0.0158535	0.010438222	0.006466798	1.99667E-07	0.0230531	0.0101717	0.2409502	0.0061574	0
Annual	CO_IDLEX	0	0	0	0	0.1781229	0.145213849	0.306081914	5.949976577	0.5193752	0	0	2.5047913	0
Annual	CO_RUNEX	0.6699271	1.5206429	0.9987983	1.1338153	0.7454201	0.496596346	0.32291321	0.670287286	0.770132	34.749389	19.259492	0.7810369	0.3456228
Annual	CO_STREX	2.1093666	2.38392	2.7105901	3.2446304	1.0307795	0.672008973	0.742649102	0.003788439	2.4474186	0.8905121	8.5959988	0.8221453	0
Annual	CO2_NBIO_IDLEX	0	0	0	0	9.2507984	14.13711968	68.92121199	1124.174368	76.064645	0	0	345.06036	0
Annual	CO2_NBIO_RUNEX	263.44392	312.60261	333.43063	412.46892	652.44765	665.2454714	974.5748282	1484.265464	1406.8974	1692.1273	212.03493	1112.1718	970.20504
Annual	CO2_NBIO_STREX	53.771073	65.271283	69.796059	86.760371	11.213673	8.759901098	6.352875619	0.034945266	20.488538	11.773881	60.730311	4.7905446	0
Annual	NOX_IDLEX	0	0	0	0	0.0732221	0.104688067	0.515800985	6.076375771	0.3431042	0	0	3.2862508	0
Annual	NOX_RUNEX	0.0372996	0.1275164	0.0857011	0.1077919	1.2509372	1.355503504	1.613798568	3.41682119	1.241885	0.3822291	1.129145	5.1952739	4.2439663
Annual	NOX_STREX[3]	0.1823738	0.2952413	0.2986464	0.379429	0.3190663	0.222928046	1.496184373	2.104078617	0.6845205	0.137146	0.2629902	0.9057296	0
Annual	PM10_IDLEX	0	0	0	0	0.0008896	0.00131023	0.001231157	0.003628278	0.0005894	0	0	0.0043578	0
Annual	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.060589876	0.13034	0.0728339	0.01176	0.7448002	0.13034
Annual	PM10_PMTW	0.008	0.008	0.008	0.008	0.0098774	0.010622799	0.012000003	0.035325231	0.012	0.026486	0.004	0.0108041	0.016
Annual	PM10_RUNEX	0.0015179	0.0023392	0.0015987	0.0016822	0.009826	0.012726783	0.035013591	0.028429484	0.0136136	0.0026547	0.0019647	0.0318947	0.1143325
Annual	PM10_STREX	0.0018538	0.0028335	0.0019204	0.0020277	0.0002596	0.000136886	7.52719E-05	9.44989E-07	0.0002182	0.0001414	0.0029599	3.955E-05	0
Annual	PM25_IDLEX	0	0	0	0	0.0008511	0.00125355	0.001177897	0.003471321	0.0005639	0	0	0.0041693	0
Annual	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.02596709	0.05586	0.0312145	0.00504	0.3192001	0.05586
Annual	PM25_PMTW	0.002	0.002	0.002	0.002	0.0024693	0.0026557	0.003000001	0.008831308	0.003	0.0066215	0.001	0.002701	0.004
Annual	PM25_RUNEX	0.0013976	0.0021526	0.0014712	0.001551	0.0093755	0.012162576	0.033495968	0.02719962	0.0130075	0.0025281	0.0018375	0.0305039	0.1093865
Annual	PM25_STREX	0.0017046	0.0026055	0.0017659	0.0018648	0.0002387	0.000125862	6.92098E-05	8.68883E-07	0.0002006	0.00013	0.0027874	3.636E-05	0
Annual	ROG_DIURN	0.059871	0.1905013	0.0973609	0.1146443	0.0030394	0.001704043	0.00045316	5.01984E-06	0.0026021	0.0016779	1.422935	0.0012417	0
Annual	ROG_HTSK	0.100942	0.2621956	0.1415757	0.1685955	0.0845705	0.05067803	0.014922369	0.000160226	0.0242391	0.0095389	0.7987129	0.009512	0
Annual	ROG_IDLEX	0	0	0	0	0.0212921	0.017503442	0.015546555	0.429500781	0.0507962	0	0	0.2803478	0
Annual	ROG_RESTL	0.0483407	0.1353491	0.082393	0.102915	0.0015811	0.000919578	0.000239893	2.97166E-06	0.0011161	0.0007372	0.779223	0.0005903	0
Annual	ROG_RUNEX	0.0095373	0.0335905	0.0181307	0.0233402	0.0620099	0.059206164	0.056447565	0.081711517	0.0504943	0.0652964	2.3253718	0.1052018	0.0787567
Annual	ROG_RUNLS	0.2112005	0.85791	0.4533448	0.4975767	0.5542081	0.315849786	0.082321313	0.00079103	0.2852933	0.0404931	1.9080744	0.0641423	0
Annual	ROG_STREX	0.2201927	0.4247746	0.3325826	0.4378158	0.078984	0.051325408	0.034288939	1.04239E-06	0.1185417	0.0367858	1.8431582	0.0357779	0
Annual	SO2_IDLEX	0	0	0	0	8.959E-05	0.00013534	0.000653127	0.010324735	0.0007253	0	0	0.0032887	0
Annual	SO2_RUNEX	0.0026063	0.0030934	0.0032988	0.0040782	0.0063567	0.006429896	0.009262186	0.013164048	0.0136725	0.0030254	0.0020983	0.0106261	0.0091719
Annual	SO2_STREX	0.0005321	0.0006459	0.0006907	0.0008586	0.000111	8.66863E-05	6.28669E-05	3.45812E-07	0.0002028	0.0001165	0.000601	4.741E-05	0
Annual	TOG_DIURN	0.059871	0.1905013	0.0973609	0.1146443	0.0030394	0.001704043	0.00045316	5.01984E-06	0.0026021	0.0016779	1.422935	0.0012417	0
Annual	TOG_HTSK	0.100942	0.2621956	0.1415757	0.1685955	0.0845705	0.05067803	0.014922369	0.000160226	0.0242391	0.0095389	0.7987129	0.009512	0
Annual	TOG_IDLEX	0	0	0	0	0.0299225	0.023875182	0.02032501	0.49842643	0.0671426	0	0	0.4018426	0
Annual	TOG_RESTL	0.0483407	0.1353491	0.082393	0.102915	0.0015811	0.000919578	0.000239893	2.97166E-06	0.0011161	0.0007372	0.779223	0.0005903	0
Annual	TOG_RUNEX	0.0138743	0.048976	0.0264112	0.0338938	0.0770615	0.069802209	0.065660178	0.226286692	0.0657861	4.5405286	2.8661964	0.1274631	0.0896592
Annual	TOG_RUNLS	0.2112005	0.85791	0.4533448	0.4975767	0.5542081	0.315849786	0.082321313	0.00079103	0.2852933	0.0404931	1.9080744	0.0641423	0
Annual	TOG_STREX	0.2410822	0.4650729	0.364135	0.4793466	0.0864776	0.056194861	0.037542072	1.14128E-06	0.1297883	0.0402758	2.0056647	0.0391723	0
Summer	CH4_IDLEX	0	0	0	0	0.0050986	0.003704863	0.002386309	0.03048662	0.0088754	0	0	0.0596891	0
Summer	CH4_RUNEX	0.0028347	0.0084645	0.0049544	0.0062114	0.0062279	0.004145781	0.003344779	0.135994271	0.006735	4.4471413	0.3356313	0.0087142	0.0036581
Summer	CH4_STREX	0.0434955	0.0711812	0.0614118	0.0761678	0.0152418	0.010036258	0.006209855	1.90483E-07	0.0219973	0.0092353	0.2129044	0.0051553	0
Summer	CO_IDLEX	0	0	0	0	0.1781229	0.145213849	0.26224218	5.816581695	0.5090583	0	0	2.4671258	0
Summer	CO_RUNEX	0.8072058	1.8030789	1.1945786	1.3523464	0.7589257	0.501023893	0.325643268	0.67056103	0.7860478	34.750309	19.27555	0.7960042	0.3456228
Summer	CO_STREX	1.7755689	1.9989587	2.2739041	2.7131568	0.9773456	0.637543509	0.701106403	0.00357666	2.2775773	0.7595399	7.9007261	0.5954702	0
Summer	CO2_NBIO_IDLEX	0	0	0	0	9.2507984	14.13711968	69.58563032	1121.036532	75.89573	0	0	352.97835	0
Summer	CO2_NBIO_RUNEX	285.26226	335.30361	355.41059	435.66633	652.47198	665.2532681	974.5796378	1484.265926	1406.9255	1692.129	211.89805	1112.1983	970.20504
Summer	CO2_NBIO_STREX	53.137862	64.454287	68.945263	85.70879	11.117954	8.698115905	6.282062728	0.034609429	20.20014	11.554669	58.878141	4.4116044	0
Summer	NOX_IDLEX	0	0	0	0	0.0732221	0.104688067	0.515942988	5.901205034	0.3350715	0	0	3.355634	0
Summer	NOX_RUNEX	0.0338109	0.1144706	0.0773143	0.0972206	1.1748123	1.277373817	1.519381496	3.226107767	1.1565432	0.379286	0.9747712	4.8782779	4.0016033
Summer	NOX_STREX[3]	0.1701512	0.2752966	0.2785802	0.3538841	0.3063664	0.214074275	1.493647722	2.104058715	0.6739387	0.1304061	0.24763	0.9021888	0
Summer	PM10_IDLEX	0	0	0	0	0.0008896	0.00131023	0.00104068	0.00317522	0.000501	0	0	0.0036811	0
Summer	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.060589876	0.13034	0.0728339	0.01176	0.7448002	0.13034
Summer	PM10_PMTW	0.008	0.008	0.008	0.008	0.0098774	0.010622799	0.012000003	0.035325231	0.012	0.026486	0.004	0.0108041	0.016
Summer	PM10_RUNEX	0.0015179	0.0023392	0.0015987	0.0016822	0.009826	0.012726783	0.035013591	0.028429484	0.0136136	0.0026547	0.0019647	0.0318947	0.1143325
Summer	PM10_STREX	0.0018538	0.0028335	0.0019204	0.0020277	0.0002596	0.000136886	7.52719E-05	9.44989E-07	0.0002182	0.0001414	0.0029599	3.955E-05	0
Summer	PM25_IDLEX	0	0	0	0	0.0008511	0.00125355	0.000995661	0.003037861	0.0004793	0	0	0.0035218	0
Summer	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.02596709	0.05586	0.0312145	0.00504	0.3192001	0.05586
Summer	PM25_PMTW	0.002	0.002	0.002	0.002	0.0024693	0.0026557	0.003000001	0.008831308	0.003	0.0066215	0.001	0.002701	0.004
Summer	PM25_RUNEX	0.0013976	0.0021526	0.0014712	0.001551	0.0093755	0.012162576	0.033495968	0.02719962	0.0130075	0.0025281	0.0018375	0.0305039	0.1093865
Summer	PM25_STREX	0.0017046	0.0026055	0.0017659	0.0018648	0.0002387	0.000125862	6.92098E-05	8.68883E-07	0.0002006	0.00013	0.0027874	3.636E-05	0
Summer	ROG_DIURN	0.1122918	0.3591141	0.1821484	0.2137828	0.0054783	0.003072949	0.000828267	9.86032E-06	0.0046858	0.0030607	2.7723384	0.0022078	0
Summer	ROG_HTSK	0.1140598	0.3100856	0.1609587	0.1877817	0.0967417	0.058157686	0.017228668	0.000182083	0.0268913	0.0112667	1.1143267	0.0099848	0
Summer	ROG_IDLEX	0	0	0	0	0.0212921	0.017503442	0.015061577	0.44923775	0.0514955	0	0	0.2801428	0
Summer	ROG_RESTL	0.0898943	0.2556617	0.1514602	0.1873187	0.0030454	0.001762514	0.000477905	6.58099E-06	0.0022091	0.0014842	1.767628	0.0011133	0
Summer	ROG_RUNEX	0.0106709	0.0373635	0.0202234	0.0260596	0.0626863	0.059386739	0.056559393	0.081717877	0.051161	0.0653378	2.2793623	0.1058624	0.0787567
Summer	ROG_RUNLS	0.2081493	0.8455275	0.4463895	0.4906893	0.5561259	0.317065942	0.082837087	0.000811643	0.285656	0.0393984	1.8797624	0.0589704	0
Summer	ROG_STREX	0.1891739	0.3631622	0.2853268	0.3755016	0.0757002	0.049193815	0.032809885	9.97423E-07	0.1128257	0.0333265	1.6174351	0.0299258	0
Summer	SO2_IDLEX	0	0	0	0	8.959E-05	0.00013534	0.000659489	0.010293096	0.0007237	0	0	0.0033635	0
Summer	SO2_RUNEX	0.0028222	0.003318	0.0035163	0.0043078	0.0063569	0.006429973	0.009262234	0.013164052	0.0136728	0.0030254	0.0020969	0.0106263	0.0091719
Summer	SO2_STREX	0.0005258	0.0006378	0.0006823	0.0008482	0.00011	8.60749E-05	6.21661E-05	3.42488E-07	0.0001999	0.0001143	0.0005826	4.366E-05	0
Summer	TOG_DIURN	0.1122918	0.3591141	0.1821484	0.2137828	0.0054783	0.003072949	0.000828267	9.86032E-06	0.0046858	0.0030607	2.7723384	0.0022078	0
Summer	TOG_HTSK	0.1140598	0.3100856	0.1609587	0.1877817	0.0967417	0.058157686	0.017228668	0.000182083	0.0268913	0.0112667	1.1143267	0.0099848	0
Summer	TOG_IDLEX	0	0	0	0	0.0299225	0.023875182	0.019615323	0.521108923	0.0679387	0	0	0.4016093	0
Summer	TOG_RESTL	0.0898943	0.2556617	0.1514602	0.1873187	0.0030454	0.001762514	0.000477905	6.58099E-06	0.0022091	0.0014842	1.767628	0.0011133	0
Summer	TOG_RUNEX	0.0155276	0.0544789	0.0294634	0.0378521	0.0780484	0.070065703	0.065823358	0.226295973	0.0667589	4.540589	2.811637	0.1284269	0.0896592
Summer	TOG_RUNLS	0.2081493	0.8455275	0.4463895	0.4906893	0.5561259	0.317065942	0.082837087	0.000811643	0.285656	0.0393984	1.8797624	0.0589704	0
Summer	TOG_STREX	0.2071207	0.3976154	0.3123962	0.4111217	0.0828822	0.053861035	0.035922694	1.09205E-06	0.1235299	0.0364883	1.7600981	0.032765	0

Winter	CH4_IDLEX	0	0	0	0	0.0050868	0.003696273	0.002683152	0.018657615	0.0087745	0	0	0.0596174	0
Winter	CH4_RUNEX	0.0024595	0.0074306	0.0043219	0.0054045	0.0061097	0.004107724	0.003321206	0.003368303	0.0065995	4.4471251	0.3380167	0.0085765	0.0036581
Winter	CH4_STREX	0.0504766	0.083203	0.0713869	0.0885931	0.0157744	0.010387561	0.006419771	1.98536E-07	0.0230509	0.0102547	0.2376692	0.0063442	0
Winter	CO_IDLEX	0	0	0	0	0.1781229	0.145213849	0.367232024	5.981575427	0.5336223	0	0	2.5568054	0
Winter	CO_RUNEX	0.64333	1.4649446	0.9605926	1.0903306	0.7461444	0.496899006	0.323004081	0.331191983	0.7706524	34.749434	18.757183	0.7800615	0.3456228
Winter	CO_STREX	2.1127605	2.3885205	2.7181091	3.2539887	1.0243206	0.668014244	0.736815593	0.003758766	2.4531242	0.9034492	8.4367304	0.8592352	0
Winter	CO2_NBIO_IDLEX	0	0	0	0	9.2507984	14.13711968	68.0001011	1097.477971	76.297908	0	0	334.12598	0
Winter	CO2_NBIO_RUNEX	259.38476	308.37604	329.34029	408.1504	652.44895	665.2460099	974.5749866	1393.364139	1406.8983	1692.1274	211.16891	1112.1701	970.20504
Winter	CO2_NBIO_STREX	53.781088	65.287097	69.81504	86.784397	11.201968	8.752640942	6.342989048	0.034898214	20.497557	11.795351	60.384313	4.8530132	0
Winter	NOX_IDLEX	0	0	0	0	0.0732221	0.104688067	0.515604396	6.134648763	0.3541969	0	0	3.1904359	0
Winter	NOX_RUNEX	0.0357003	0.1222442	0.0820781	0.1032575	1.2305484	1.334381677	1.586931331	3.279278901	1.219445	0.3815239	1.0949706	5.118713	4.1746013
Winter	NOX_STREX[3]	0.1811786	0.2934432	0.2967324	0.3770261	0.3149779	0.220060449	1.495548849	2.104073738	0.6818154	0.1361885	0.2609966	0.9061097	0
Winter	PM10_IDLEX	0	0	0	0	0.0008896	0.00131023	0.001494195	0.003864686	0.0007116	0	0	0.0052923	0
Winter	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.059002456	0.13034	0.0728339	0.01176	0.7448002	0.13034
Winter	PM10_PMTW	0.008	0.008	0.008	0.008	0.0098774	0.010622799	0.012000003	0.034399622	0.012	0.026486	0.004	0.0108041	0.016
Winter	PM10_RUNEX	0.0015179	0.0023392	0.0015987	0.0016822	0.009826	0.012726783	0.035013591	0.028273632	0.0136136	0.0026547	0.0019647	0.0318947	0.1143325
Winter	PM10_STREX	0.0018538	0.0028335	0.0019204	0.0020277	0.0002596	0.000136886	7.52719E-05	9.44989E-07	0.0002182	0.0001414	0.0029599	3.955E-05	0
Winter	PM25_IDLEX	0	0	0	0	0.0008511	0.00125355	0.001429557	0.003697502	0.0006808	0	0	0.0050633	0
Winter	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.025286767	0.05586	0.0312145	0.00504	0.3192001	0.05586
Winter	PM25_PMTW	0.002	0.002	0.002	0.002	0.0024693	0.0026557	0.003000001	0.008599905	0.003	0.0066215	0.001	0.002701	0.004
Winter	PM25_RUNEX	0.0013976	0.0021526	0.0014712	0.001551	0.0093755	0.012162576	0.033495968	0.02705051	0.0130075	0.0025281	0.0018375	0.0305039	0.1093865
Winter	PM25_STREX	0.0017046	0.0026055	0.0017659	0.0018648	0.0002387	0.000125862	6.92098E-05	8.68883E-07	0.0002006	0.00013	0.0027874	3.636E-05	0
Winter	ROG_DIURN	0.0571558	0.1879088	0.0914014	0.1055327	0.003152	0.001714328	0.000470673	5.32641E-06	0.002739	0.0016874	1.5735307	0.0012073	0
Winter	ROG_HTSK	0.1105587	0.3005524	0.1558745	0.182272	0.0990207	0.058382004	0.016659725	0.000186681	0.0263554	0.01068	1.0568137	0.0100766	0
Winter	ROG_IDLEX	0	0	0	0	0.0212921	0.017503442	0.016225643	0.401693337	0.0498305	0	0	0.2806308	0
Winter	ROG_RESTL	0.0461666	0.1287548	0.0787752	0.0986676	0.00161	0.00092205	0.000244015	3.16348E-06	0.0011655	0.0007448	0.7426775	0.0006013	0
Winter	ROG_RUNEX	0.0093396	0.0329181	0.0177631	0.0228284	0.0620448	0.059219786	0.056450881	0.071960973	0.0505139	0.0652984	2.3059588	0.1051667	0.0787567
Winter	ROG_RUNLS	0.2380793	1.0011481	0.5242295	0.5708384	0.5956469	0.340844353	0.089738272	0.000829096	0.3039547	0.0468464	2.1751002	0.0770407	0
Winter	ROG_STREX	0.2215737	0.4273136	0.3346868	0.4405544	0.0785469	0.051048872	0.034098264	1.03659E-06	0.1185343	0.0370728	1.8149853	0.0368737	0
Winter	SO2_IDLEX	0	0	0	0	8.959E-05	0.00013534	0.000644307	0.010368428	0.0007275	0	0	0.0031854	0
Winter	SO2_RUNEX	0.0025661	0.0030516	0.0032583	0.0040355	0.0063567	0.006429901	0.009262188	0.013164048	0.0136725	0.0030254	0.0020897	0.0106261	0.0091719
Winter	SO2_STREX	0.0005322	0.0006461	0.0006909	0.0008588	0.0001109	8.66145E-05	6.2769E-05	3.45346E-07	0.0002028	0.0001167	0.0005976	4.802E-05	0
Winter	TOG_DIURN	0.0571558	0.1879088	0.0914014	0.1055327	0.003152	0.001714328	0.000470673	5.32641E-06	0.002739	0.0016874	1.5735307	0.0012073	0
Winter	TOG_HTSK	0.1105587	0.3005524	0.1558745	0.182272	0.0990207	0.058382004	0.016659725	0.000186681	0.0263554	0.01068	1.0568137	0.0100766	0
Winter	TOG_IDLEX	0	0	0	0	0.0299225	0.023875182	0.021318707	0.457297286	0.0660432	0	0	0.4021648	0
Winter	TOG_RESTL	0.0461666	0.1287548	0.0787752	0.0986676	0.00161	0.00092205	0.000244015	3.16348E-06	0.0011655	0.0007448	0.7426775	0.0006013	0
Winter	TOG_RUNEX	0.013586	0.0479959	0.0258753	0.0331507	0.0771124	0.069822086	0.065665017	0.081982635	0.0658146	4.5405315	2.8427129	0.1274118	0.0896592
Winter	TOG_RUNLS	0.2380793	1.0011481	0.5242295	0.5708384	0.5956469	0.340844353	0.089738272	0.000829096	0.3039547	0.0468464	2.1751002	0.0770407	0
Winter	TOG_STREX	0.2425943	0.4678528	0.366439	0.4823451	0.085999	0.055892089	0.037333308	1.13494E-06	0.1297801	0.0405901	1.9750313	0.0403721	0

1 Source: California Air Resources Board. EMFAC2017 Web Database. https://www.arb.ca.gov/emfac/2017/; California Air Pollution Control Officers Association (CAPCOA). 2017, November. California Emissions Estimator Model User's Guide, Version 2016.3.2, Appendix A.

2 Unless otherwise noted, per CalEEMod methodology, the calculated CalEEMod emission rates are derived from the emission rates obtained using the EMFAC2017 Web Database for the Los Angeles (SC) region .

3 Because EMFAC2017 provides vehicle trips data for MHDT and HHDT diesel trucks, the formula provided in Appendix A of the CalEEMod User's Guide in calculating the NO_X STREX emission rates are utilized.

LDA CalEEMod Emission Rate Worksheet

Vehicle Class: LDA

Pollutant	Emission Rates			Population			VMT			Trips			CalEEMod Emission
	Gas	DSL	ELEC	LDA Gas	LDA DSL	LDA Elec	LDA Gas	LDA DSL	LDA Elec	LDA Gas	LDA DSL	LDA Elec	Rate
CH4_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
CH4_RUNEX	0.002565235	0.000652782	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.00251096**
CH4_STREX	0.051397294	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.050148596**
CO_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
CO_RUNEX	0.684057723	0.214985859	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.669927115**
CO_STREX	2.161889681	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**2.109366565**
CO2_NBIO_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
CO2_NBIO_RUNEX	268.0245857	198.3807508	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**263.4439196**
CO2_NBIO_STREX	55.1099694	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**53.77107254**
NOX_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
NOX_RUNEX	0.037686917	0.058559526	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.03729964**
NOX_STREX	0.186914864	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.182373767**
PM10_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
PM10_PMBW	0.036750011	0.036750011	0.036750011	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.036750011**
PM10_PMTW	0.008000002	0.008000002	0.008000002	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.008000002**
PM10_RUNEX	0.001499905	0.006316324	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.00151787**
PM10_STREX	0.001899974	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.001853814**
PM25_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
PM25_PMBW	0.015750005	0.015750005	0.015750005	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.015750005**
PM25_PMTW	0.002000001	0.002000001	0.002000001	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.002000001**
PM25_RUNEX	0.001379121	0.006043083	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.001397611**
PM25_STREX	0.001747019	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.001704575**
ROG_DIURN	0.288762715	0	0.028176661	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.059871032**
ROG_HTSK	0.103373415	0	0.004888026	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.100942014**
ROG_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
ROG_RESTL	0.233356585	0	0.009705902	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.048340733**
ROG_RUNEX	0.009644256	0.014054015	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.009537348**
ROG_RUNLS	0.216459405	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.211200523**
ROG_STREX	0.225675507	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.22019272**
SO2_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
SO2_RUNEX	0.002652321	0.001875412	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.002606256**
SO2_STREX	0.000545358	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.000532108**
TOG_DIURN	0.288762715	0	0.028176661	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.059871032**
TOG_HTSK	0.103373415	0	0.004888026	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.100942014**
TOG_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
TOG_RESTL	0.233356585	0	0.009705902	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.048340733**
TOG_RUNEX	0.014067909	0.015999562	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.013874272**
TOG_RUNLS	0.216459405	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.211200523**
TOG_STREX	0.247085182	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.241082247**
CH4_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
CH4_RUNEX	0.002896648	0.000652782	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.002834655**
CH4_STREX	0.044578554	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.043495518**
CO_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
CO_RUNEX	0.824609689	0.214985859	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.807205764**
CO_STREX	1.819780459	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**1.775568887**
CO2_NBIO_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
CO2_NBIO_RUNEX	290.3631737	198.3807508	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**285.2622638**
CO2_NBIO_STREX	54.46099245	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**53.13786248**
NOX_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
NOX_RUNEX	0.034143911	0.055180963	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.033810852**
NOX_STREX	0.17438791	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.170151155**
PM10_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
PM10_PMBW	0.036750011	0.036750011	0.036750011	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.036750011**
PM10_PMTW	0.008000002	0.008000002	0.008000002	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.008000002**
PM10_RUNEX	0.001499905	0.006316324	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.00151787**
PM10_STREX	0.001899974	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.001853814**
PM25_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
PM25_PMBW	0.015750005	0.015750005	0.015750005	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.015750005**
PM25_PMTW	0.002000001	0.002000001	0.002000001	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.002000001**
PM25_RUNEX	0.001379121	0.006043083	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.001397611**
PM25_STREX	0.001747019	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.001704575**
ROG_DIURN	0.541513796	0	0.057820044	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.112291776**
ROG_HTSK	0.116817875	0	0.004888026	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.114059841**
ROG_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
ROG_RESTL	0.433764012	0	0.029818295	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.089894311**
ROG_RUNEX	0.010804834	0.014054015	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.010670897**
ROG_RUNLS	0.213332215	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.208149308**
ROG_STREX	0.193884271	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.189173852**
SO2_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
SO2_RUNEX	0.002873379	0.001875412	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.002822167**
SO2_STREX	0.000538936	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.000525842**
TOG_DIURN	0.541513796	0	0.057820044	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.112291776**
TOG_HTSK	0.116817875	0	0.004888026	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.114059841**
TOG_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
TOG_RESTL	0.433764012	0	0.029818295	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.089894311**
TOG_RUNEX	0.015760646	0.015999562	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.015527586**
TOG_RUNLS	0.213332215	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.208149308**
TOG_STREX	0.212277993	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.207120698**

CH4_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
CH4_RUNEX	0.002512538	0.000652782	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.002459491**
CH4_STREX	0.051733462	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.050476597**
CO_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
CO_RUNEX	0.656826375	0.214985859	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.643329958**
CO_STREX	2.165368077	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**2.112760453**
CO2_NBIO_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
CO2_NBIO_RUNEX	263.8686342	198.3807508	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**259.3847561**
CO2_NBIO_STREX	55.12023376	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**53.78108752**
NOX_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
NOX_RUNEX	0.036057722	0.05759522	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.035700311**
NOX_STREX	0.185689957	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.181178619**
PM10_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
PM10_PMBW	0.036750011	0.036750011	0.036750011	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.036750011**
PM10_PMTW	0.008000002	0.008000002	0.008000002	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.008000002**
PM10_RUNEX	0.001499905	0.006316324	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.00151787**
PM10_STREX	0.001899974	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.001853814**
PM25_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
PM25_PMBW	0.015750005	0.015750005	0.015750005	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.015750005**
PM25_PMTW	0.002000001	0.002000001	0.002000001	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.002000001**
PM25_RUNEX	0.001379121	0.006043083	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.001397611**
PM25_STREX	0.001747019	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.001704575**
ROG_DIURN	0.275755745	0	0.021270889	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.057155838**
ROG_HTSK	0.11322952	0	0.004888026	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.110558666**
ROG_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
ROG_RESTL	0.222923689	0	0.005311167	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.046166606**
ROG_RUNEX	0.009441787	0.014054015	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.009339594**
ROG_RUNLS	0.244007496	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.238079334**
ROG_STREX	0.227090881	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.221573708**
SO2_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
SO2_RUNEX	0.002611194	0.001875412	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.002566088**
SO2_STREX	0.000545459	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.000532207**
TOG_DIURN	0.275755745	0	0.021270889	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.057155838**
TOG_HTSK	0.11322952	0	0.004888026	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.110558666**
TOG_IDLEX	0	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0**
TOG_RESTL	0.222923689	0	0.005311167	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.046166606**
TOG_RUNEX	0.013772729	0.015999562	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.013585966**
TOG_RUNLS	0.244007496	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.238079334**
TOG_STREX	0.248634856	0	0	543957.3772	4325.601093	8565.692529	23065957.3	197774.636	352217.6714	2563743.523	20802.1649	43034.91337	**0.242594271**

LDT1 CalEEMod Emission Rate Worksheet

Vehicle Class: LDT1

Pollutant	Emission Rates			Population			VMT			Trips			CalEEMod Emission
	Gas	DSL	ELEC	LDT1 Gas	LDT1 DSL	LDT1 Elec	LDT1 Gas	LDT1 DSL	LDT1 Elec	LDT1 Gas	LDT1 DSL	LDT1 Elec	Rate
CH4_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
CH4_RUNEX	0.007627419	0.009673222	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.007575963**
CH4_STREX	0.083224619	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.082657197**
CO_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
CO_RUNEX	1.531171333	1.231448064	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**1.520642922**
CO_STREX	2.400285046	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**2.383919991**
CO2_NBIO_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
CO2_NBIO_RUNEX	314.7213115	415.1274134	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**312.6026135**
CO2_NBIO_STREX	65.71935466	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**65.27128252**
NOX_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
NOX_RUNEX	0.128099532	1.166633731	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.12751638**
NOX_STREX	0.297268068	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.295241305**
PM10_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
PM10_PMBW	0.036750011	0.036750011	0.036750011	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.036750011**
PM10_PMTW	0.008000002	0.008000002	0.008000002	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.008000002**
PM10_RUNEX	0.002311262	0.158616969	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.002339241**
PM10_STREX	0.002852991	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.002833539**
PM25_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
PM25_PMBW	0.015750005	0.015750005	0.015750005	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.015750005**
PM25_PMTW	0.002000001	0.002000001	0.002000001	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.002000001**
PM25_RUNEX	0.00212521	0.151755269	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.00215259**
PM25_STREX	0.002623383	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.002605497**
ROG_DIURN	0.869680259	0	0.028176661	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.190501335**
ROG_HTSK	0.263963846	0	0.004888026	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.262195579**
ROG_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
ROG_RESTL	0.617957833	0	0.009705902	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.135349108**
ROG_RUNEX	0.033771992	0.208258768	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.033590457**
ROG_RUNLS	0.863799342	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.85790999**
ROG_STREX	0.427690563	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.424774584**
SO2_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
SO2_RUNEX	0.003114423	0.003924447	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.003093405**
SO2_STREX	0.000650346	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.000645912**
TOG_DIURN	0.869680259	0	0.028176661	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.190501335**
TOG_HTSK	0.263963846	0	0.004888026	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.262195579**
TOG_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
TOG_RESTL	0.617957833	0	0.009705902	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.135349108**
TOG_RUNEX	0.049259412	0.237088761	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.048975967**
TOG_RUNLS	0.863799342	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.85790999**
TOG_STREX	0.468265487	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.46507287**
CH4_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
CH4_RUNEX	0.008522265	0.009673222	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.008464455**
CH4_STREX	0.071669882	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.07118124**
CO_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
CO_RUNEX	1.815627231	1.231448064	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**1.803078861**
CO_STREX	2.012681064	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**1.998958679**
CO2_NBIO_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
CO2_NBIO_RUNEX	337.5846667	415.1274134	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**335.303613**
CO2_NBIO_STREX	64.89675022	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**64.45428657**
NOX_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
NOX_RUNEX	0.114979403	1.099433731	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.114470613**
NOX_STREX	0.277186465	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.275296618**
PM10_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
PM10_PMBW	0.036750011	0.036750011	0.036750011	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.036750011**
PM10_PMTW	0.008000002	0.008000002	0.008000002	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.008000002**
PM10_RUNEX	0.002311262	0.158616969	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.002339241**
PM10_STREX	0.002852991	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.002833539**
PM25_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
PM25_PMBW	0.015750005	0.015750005	0.015750005	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.015750005**
PM25_PMTW	0.002000001	0.002000001	0.002000001	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.002000001**
PM25_RUNEX	0.00212521	0.151755269	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.00215259**
PM25_STREX	0.002623383	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.002605497**
ROG_DIURN	1.639407304	0	0.057820044	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.359114113**
ROG_HTSK	0.312182634	0	0.004888026	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.310085613**
ROG_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
ROG_RESTL	1.167197733	0	0.029818295	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.255661697**
ROG_RUNEX	0.037572006	0.208258768	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.037363487**
ROG_RUNLS	0.851331839	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.84552749**
ROG_STREX	0.365655187	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.363162163**
SO2_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
SO2_RUNEX	0.003340674	0.003924447	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.00331805**
SO2_STREX	0.000642206	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.000637827**
TOG_DIURN	1.639407304	0	0.057820044	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.359114113**
TOG_HTSK	0.312182634	0	0.004888026	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.310085613**
TOG_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
TOG_RESTL	1.167197733	0	0.029818295	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.255661697**
TOG_RUNEX	0.054801679	0.237088761	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.054478878**
TOG_RUNLS	0.851331839	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.84552749**
TOG_STREX	0.40034492	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.397615383**

CH4_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
CH4_RUNEX	0.00748101	0.009673222	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.007430594**
CH4_STREX	0.08377419	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.08320302**
CO_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
CO_RUNEX	1.47507469	1.231448064	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**1.464944629**
CO_STREX	2.40491715	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**2.388520513**
CO2_NBIO_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
CO2_NBIO_RUNEX	310.4645061	415.1274134	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**308.3760363**
CO2_NBIO_STREX	65.73527768	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**65.28709698**
NOX_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
NOX_RUNEX	0.122795028	1.147458631	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.122244179**
NOX_STREX	0.295457571	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.293443153**
PM10_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
PM10_PMBW	0.036750011	0.036750011	0.036750011	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.036750011**
PM10_PMTW	0.008000002	0.008000002	0.008000002	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.008000002**
PM10_RUNEX	0.002311262	0.158616969	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.002339241**
PM10_STREX	0.002852991	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.002833539**
PM25_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
PM25_PMBW	0.015750005	0.015750005	0.015750005	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.015750005**
PM25_PMTW	0.002000001	0.002000001	0.002000001	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.002000001**
PM25_RUNEX	0.00212521	0.151755269	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.00215259**
PM25_STREX	0.002623383	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.002605497**
ROG_DIURN	0.857882646	0	0.021270889	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.187908847**
ROG_HTSK	0.302583985	0	0.004888026	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.300552408**
ROG_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
ROG_RESTL	0.587873313	0	0.005311167	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.128754843**
ROG_RUNEX	0.033094838	0.208258768	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.032918112**
ROG_RUNLS	1.008020743	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**1.001148095**
ROG_STREX	0.430246962	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.427313554**
SO2_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
SO2_RUNEX	0.003072298	0.003924447	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.003051579**
SO2_STREX	0.000650504	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.000646069**
TOG_DIURN	0.857882646	0	0.021270889	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.187908847**
TOG_HTSK	0.302583985	0	0.004888026	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.300552408**
TOG_IDLEX	0	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0**
TOG_RESTL	0.587873313	0	0.005311167	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.128754843**
TOG_RUNEX	0.04827234	0.237088761	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.047995905**
TOG_RUNLS	1.008020743	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**1.001148095**
TOG_STREX	0.471064452	0	0	56195.86841	30.18816941	324.4928921	2019926.608	569.3508455	13877.00183	254844.973	99.60900361	1649.842342	**0.467852752**

LDT2 CalEEMod Emission Rate Worksheet

Vehicle Class: LDT2

Pollutant	Emission Rates			Population			VMT			Trips			CalEEMod Emission
	Gas	DSL	ELEC	LDT2 Gas	LDT2 DSL	LDT2 Elec	LDT2 Gas	LDT2 DSL	LDT2 Elec	LDT2 Gas	LDT2 DSL	LDT2 Elec	Rate
CH4_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
CH4_RUNEX	0.004466128	0.000795084	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.004409282**
CH4_STREX	0.072018205	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.070916521**
CO_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
CO_RUNEX	1.011924367	0.140804029	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.998798324**
CO_STREX	2.752698984	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**2.710590119**
CO2_NBIO_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
CO2_NBIO_RUNEX	336.4058182	268.7281275	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**333.4306315**
CO2_NBIO_STREX	70.88033665	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**69.7960588**
NOX_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
NOX_RUNEX	0.086620605	0.044671227	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.085701097**
NOX_STREX	0.303285831	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.298646376**
PM10_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
PM10_PMBW	0.036750011	0.036750011	0.036750011	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.036750011**
PM10_PMTW	0.008000002	0.008000002	0.008000002	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.008000002**
PM10_RUNEX	0.001586485	0.005454764	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.001598653**
PM10_STREX	0.001950275	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.001920441**
PM25_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
PM25_PMBW	0.015750005	0.015750005	0.015750005	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.015750005**
PM25_PMTW	0.002000001	0.002000001	0.002000001	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.002000001**
PM25_RUNEX	0.001458757	0.005218793	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.001471217**
PM25_STREX	0.001793285	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.001765852**
ROG_DIURN	0.460386225	0	0.028176661	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.097360885**
ROG_HTSK	0.143727567	0	0.004888026	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.141575661**
ROG_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
ROG_RESTL	0.38973467	0	0.009705902	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.082393048**
ROG_RUNEX	0.018276633	0.017117698	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.018130747**
ROG_RUNLS	0.460387465	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.453344779**
ROG_STREX	0.337749204	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.332582553**
SO2_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
SO2_RUNEX	0.003329008	0.002540447	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.003298823**
SO2_STREX	0.000701418	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.000690689**
TOG_DIURN	0.460386225	0	0.028176661	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.097360885**
TOG_HTSK	0.143727567	0	0.004888026	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.141575661**
TOG_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
TOG_RESTL	0.38973467	0	0.009705902	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.082393048**
TOG_RUNEX	0.026658247	0.019487361	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.026411169**
TOG_RUNLS	0.460387465	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.453344779**
TOG_STREX	0.36979186	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.364135043**
CH4_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
CH4_RUNEX	0.005018929	0.000795084	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.004954432**
CH4_STREX	0.062365869	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.061411839**
CO_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
CO_RUNEX	1.210452629	0.140804029	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**1.19457857**
CO_STREX	2.309229058	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**2.273904086**
CO2_NBIO_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
CO2_NBIO_RUNEX	358.6942938	268.7281275	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**355.4105913**
CO2_NBIO_STREX	70.01632397	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**68.94526318**
NOX_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
NOX_RUNEX	0.078132425	0.042091142	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.077314268**
NOX_STREX	0.282907976	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.278580248**
PM10_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
PM10_PMBW	0.036750011	0.036750011	0.036750011	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.036750011**
PM10_PMTW	0.008000002	0.008000002	0.008000002	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.008000002**
PM10_RUNEX	0.001586485	0.005454764	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.001598653**
PM10_STREX	0.001950275	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.001920441**
PM25_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
PM25_PMBW	0.015750005	0.015750005	0.015750005	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.015750005**
PM25_PMTW	0.002000001	0.002000001	0.002000001	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.002000001**
PM25_RUNEX	0.001458757	0.005218793	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.001471217**
PM25_STREX	0.001793285	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.001765852**
ROG_DIURN	0.861271544	0	0.057820044	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.182148362**
ROG_HTSK	0.163411752	0	0.004888026	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.160958731**
ROG_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
ROG_RESTL	0.716328296	0	0.029818295	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.151460171**
ROG_RUNEX	0.020398695	0.017117698	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.020223436**
ROG_RUNLS	0.453324176	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.44638954**
ROG_STREX	0.289759386	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.285326849**
SO2_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
SO2_RUNEX	0.003549571	0.002540447	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.003516332**
SO2_STREX	0.000692868	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.000682269**
TOG_DIURN	0.861271544	0	0.057820044	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.182148362**
TOG_HTSK	0.163411752	0	0.004888026	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.160958731**
TOG_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
TOG_RESTL	0.716328296	0	0.029818295	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.151460171**
TOG_RUNEX	0.029753314	0.019487361	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.029463394**
TOG_RUNLS	0.453324176	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.44638954**
TOG_STREX	0.317249246	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.312396189**

CH4_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
CH4_RUNEX	0.004377553	0.000795084	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.004321933**
CH4_STREX	0.072495915	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.071386923**
CO_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
CO_RUNEX	0.97318237	0.140804029	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.960592592**
CO_STREX	2.760334794	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**2.718109122**
CO2_NBIO_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
CO2_NBIO_RUNEX	332.2580679	268.7281275	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**329.340294**
CO2_NBIO_STREX	70.8996129	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**69.81504018**
NOX_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
NOX_RUNEX	0.082951446	0.043934691	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.082078119**
NOX_STREX	0.301342106	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.296732385**
PM10_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
PM10_PMBW	0.036750011	0.036750011	0.036750011	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.036750011**
PM10_PMTW	0.008000002	0.008000002	0.008000002	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.008000002**
PM10_RUNEX	0.001586485	0.005454764	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.001598653**
PM10_STREX	0.001950275	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.001920441**
PM25_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
PM25_PMBW	0.015750005	0.015750005	0.015750005	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.015750005**
PM25_PMTW	0.002000001	0.002000001	0.002000001	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.002000001**
PM25_RUNEX	0.001458757	0.005218793	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.001471217**
PM25_STREX	0.001793285	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.001765852**
ROG_DIURN	0.432252344	0	0.021270889	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.091401449**
ROG_HTSK	0.158248531	0	0.004888026	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.155874493**
ROG_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
ROG_RESTL	0.37265691	0	0.005311167	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.078775183**
ROG_RUNEX	0.017903867	0.017117698	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.017763141**
ROG_RUNLS	0.532373425	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.524229548**
ROG_STREX	0.339886178	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.334686836**
SO2_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
SO2_RUNEX	0.003287963	0.002540447	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.003258346**
SO2_STREX	0.000701609	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.000690876**
TOG_DIURN	0.432252344	0	0.021270889	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.091401449**
TOG_HTSK	0.158248531	0	0.004888026	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.155874493**
TOG_IDLEX	0	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0**
TOG_RESTL	0.37265691	0	0.005311167	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.078775183**
TOG_RUNEX	0.026114856	0.019487361	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.0258753**
TOG_RUNLS	0.532373425	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.524229548**
TOG_STREX	0.372131594	0	0	172388.4413	945.5703737	1538.8191	6504289.119	41265.88695	50029.80218	803134.4936	4678.034085	7798.615132	**0.366438985**

MDV CalEEMod Emission Rate Worksheet

Vehicle Class: MDV

Pollutant	Emission Rates			Population			VMT			Trips			CalEEMod Emission
	Gas	DSL	ELEC	MDV Gas	MDV DSL	MDV Elec	MDV Gas	MDV DSL	MDV Elec	MDV Gas	MDV DSL	MDV Elec	**Rate**
CH4_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
CH4_RUNEX	0.005660871	0.000586033	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.005520305**
CH4_STREX	0.090336724	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.088007128**
CO_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
CO_RUNEX	1.16045664	0.219613735	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**1.133815319**
CO_STREX	3.330517459	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**3.244630353**
CO2_NBIO_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
CO2_NBIO_RUNEX	415.8795512	359.487158	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**412.4689218**
CO2_NBIO_STREX	89.05696409	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**86.76037054**
NOX_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
NOX_RUNEX	0.109648039	0.050999249	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.107791914**
NOX_STREX	0.389472647	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.379428958**
PM10_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
PM10_PMBW	0.036750011	0.036750011	0.036750011	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.036750011**
PM10_PMTW	0.008000002	0.008000002	0.008000002	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.008000002**
PM10_RUNEX	0.001615913	0.005034028	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.001682159**
PM10_STREX	0.002081417	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.002027741**
PM25_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
PM25_PMBW	0.015750005	0.015750005	0.015750005	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.015750005**
PM25_PMTW	0.002000001	0.002000001	0.002000001	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.002000001**
PM25_RUNEX	0.001485984	0.004816258	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.00155099**
PM25_STREX	0.001914173	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.00186481**
ROG_DIURN	0.536828158	0	0.028176661	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.114644263**
ROG_HTSK	0.173026195	0	0.004888026	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.168595468**
ROG_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
ROG_RESTL	0.48199673	0	0.009705902	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.10291503**
ROG_RUNEX	0.023706792	0.012616951	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.023340246**
ROG_RUNLS	0.510747794	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.497576672**
ROG_STREX	0.449404984	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.437815765**
SO2_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
SO2_RUNEX	0.004115465	0.003398446	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.00407824**
SO2_STREX	0.000881291	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.000858564**
TOG_DIURN	0.536828158	0	0.028176661	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.114644263**
TOG_HTSK	0.173026195	0	0.004888026	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.168595468**
TOG_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
TOG_RESTL	0.48199673	0	0.009705902	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.10291503**
TOG_RUNEX	0.034515016	0.01436356	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.033893807**
TOG_RUNLS	0.510747794	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.497576672**
TOG_STREX	0.49203514	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.479346579**
CH4_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
CH4_RUNEX	0.006371221	0.000586033	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.006211408**
CH4_STREX	0.078184034	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.076167831**
CO_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
CO_RUNEX	1.385073447	0.219613735	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**1.352346373**
CO_STREX	2.784975533	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**2.713156816**
CO2_NBIO_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
CO2_NBIO_RUNEX	439.7229676	359.487158	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**435.6663261**
CO2_NBIO_STREX	87.97754804	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**85.70879037**
NOX_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
NOX_RUNEX	0.098848445	0.048055915	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.097220593**
NOX_STREX	0.363251653	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.35388415**
PM10_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
PM10_PMBW	0.036750011	0.036750011	0.036750011	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.036750011**
PM10_PMTW	0.008000002	0.008000002	0.008000002	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.008000002**
PM10_RUNEX	0.001615913	0.005034028	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.001682159**
PM10_STREX	0.002081417	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.002027741**
PM25_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
PM25_PMBW	0.015750005	0.015750005	0.015750005	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.015750005**
PM25_PMTW	0.002000001	0.002000001	0.002000001	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.002000001**
PM25_RUNEX	0.001485984	0.004816258	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.00155099**
PM25_STREX	0.001914173	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.00186481**
ROG_DIURN	1.001018966	0	0.057820044	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.213782802**
ROG_HTSK	0.192720318	0	0.004888026	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.18778172**
ROG_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
ROG_RESTL	0.877225128	0	0.029818295	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.187318658**
ROG_RUNEX	0.026501885	0.012616951	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.026059609**
ROG_RUNLS	0.50367812	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.49068931**
ROG_STREX	0.385441327	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.375501598**
SO2_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
SO2_RUNEX	0.004351415	0.003398446	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.004307797**
SO2_STREX	0.000870609	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.000848158**
TOG_DIURN	1.001018966	0	0.057820044	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.213782802**
TOG_HTSK	0.192720318	0	0.004888026	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.18778172**
TOG_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
TOG_RESTL	0.877225128	0	0.029818295	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.187318658**
TOG_RUNEX	0.038583553	0.01436356	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.037852112**
TOG_RUNLS	0.50367812	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.49068931**
TOG_STREX	0.422004305	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.411121693**

CH4_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
CH4_RUNEX	0.005541885	0.000586033	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.005404543**
CH4_STREX	0.09093816	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.088593054**
CO_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
CO_RUNEX	1.115760945	0.219613735	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**1.090330607**
CO_STREX	3.340123505	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**3.253988679**
CO2_NBIO_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
CO2_NBIO_RUNEX	411.4407674	359.487158	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**408.1504021**
CO2_NBIO_STREX	89.08162655	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**86.784397**
NOX_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
NOX_RUNEX	0.105006185	0.050159121	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.103257464**
NOX_STREX	0.387006193	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.377026109**
PM10_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
PM10_PMBW	0.036750011	0.036750011	0.036750011	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.036750011**
PM10_PMTW	0.008000002	0.008000002	0.008000002	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.008000002**
PM10_RUNEX	0.001615913	0.005034028	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.001682159**
PM10_STREX	0.002081417	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.002027741**
PM25_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
PM25_PMBW	0.015750005	0.015750005	0.015750005	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.015750005**
PM25_PMTW	0.002000001	0.002000001	0.002000001	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.002000001**
PM25_RUNEX	0.001485984	0.004816258	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.00155099**
PM25_STREX	0.001914173	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.00186481**
ROG_DIURN	0.494190139	0	0.021270889	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.105532707**
ROG_HTSK	0.187064726	0	0.004888026	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.182271975**
ROG_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
ROG_RESTL	0.462127541	0	0.005311167	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.098667601**
ROG_RUNEX	0.023180703	0.012616951	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.022828411**
ROG_RUNLS	0.585948827	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.570838428**
ROG_STREX	0.452216095	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.440554384**
SO2_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
SO2_RUNEX	0.00407154	0.003398446	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.004035505**
SO2_STREX	0.000881535	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.000858802**
TOG_DIURN	0.494190139	0	0.021270889	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.105532707**
TOG_HTSK	0.187064726	0	0.004888026	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.182271975**
TOG_IDLEX	0	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0**
TOG_RESTL	0.462127541	0	0.005311167	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.098667601**
TOG_RUNEX	0.033751262	0.01436356	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.033150746**
TOG_RUNLS	0.585948827	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.570838428**
TOG_STREX	0.495113065	0	0	141538.2102	2634.747756	829.51862	5144209.705	115566.3521	27691.98636	645867.9702	12856.9954	4239.476312	**0.482345131**

LDH1 CalEEMod Emission Rate Worksheet

Vehicle Class: LHDT1

Pollutant	Emission Rates			Population			VMT			Trips			CalEEMod Emission
	Gas	DSL	ELEC	LHDT1 Gas	LHDT1 DSL	LHDT1 Elec	LHDT1 Gas	LHDT1 DSL	LHDT1 Elec	LHDT1 Gas	LHDT1 DSL	LHDT1 Elec	**Rate**
CH4_IDLEX	0.124158123	0.005098128	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.00508513**
CH4_RUNEX	0.00783649	0.004141377	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.006102197**
CH4_STREX	0.026858105	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.015853526**
CO_IDLEX	3.747902157	0.909745076	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.178122895**
CO_RUNEX	0.932612	0.533777818	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.745420059**
CO_STREX	1.74628553	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**1.030779471**
CO2_NBIO_IDLEX	121.8061207	135.8451489	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**9.250798442**
CO2_NBIO_RUNEX	804.1033235	480.983297	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**652.4476536**
CO2_NBIO_STREX	18.99754096	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**11.21367318**
NOX_IDLEX	0.03904903	2.200427262	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.073222126**
NOX_RUNEX	0.236475178	2.397904363	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**1.250937186**
NOX_STREX	0.54054323	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.319066301**
PM10_IDLEX	0	0.027310751	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.000889599**
PM10_PMBW	0.076440022	0.076440022	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.076440022**
PM10_PMTW	0.008000002	0.012000003	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.009877394**
PM10_RUNEX	0.001288914	0.019478209	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.009826019**
PM10_STREX	0.000439809	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.000259606**
PM25_IDLEX	0	0.0261293	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.000851116**
PM25_PMBW	0.032760009	0.032760009	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.032760009**
PM25_PMTW	0.002000001	0.003000001	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.002469348**
PM25_RUNEX	0.001185109	0.018635591	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.009375454**
PM25_STREX	0.000404388	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.000238698**
ROG_DIURN	0.076715777	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.003039431**
ROG_HTSK	0.143274258	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.084570456**
ROG_IDLEX	0.447176273	0.109759705	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.021292075**
ROG_RESTL	0.039906299	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.001581063**
ROG_RUNEX	0.037995147	0.089161402	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.062009915**
ROG_RUNLS	0.938906518	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.554208088**
ROG_STREX	0.133810086	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.078984042**
SO2_IDLEX	0.00120537	0.001284225	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**8.95874E-05**
SO2_RUNEX	0.007957254	0.004547022	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.006356669**
SO2_STREX	0.000187996	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.000110968**
TOG_DIURN	0.076715777	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.003039431**
TOG_HTSK	0.143274258	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.084570456**
TOG_IDLEX	0.652518568	0.124954127	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.02992254**
TOG_RESTL	0.039906299	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.001581063**
TOG_RUNEX	0.055442429	0.101504328	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.077061479**
TOG_RUNLS	0.938906518	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.554208088**
TOG_STREX	0.146505202	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.086477584**
CH4_IDLEX	0.124499234	0.005098128	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.005098645**
CH4_RUNEX	0.008073322	0.004141377	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.006227872**
CH4_STREX	0.025821777	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.015241813**
CO_IDLEX	3.747902157	0.909745076	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.178122895**
CO_RUNEX	0.958063071	0.533777818	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.758925725**
CO_STREX	1.655761099	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.977345641**
CO2_NBIO_IDLEX	121.8061207	135.8451489	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**9.250798442**
CO2_NBIO_RUNEX	804.1491619	480.983297	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**652.4719778**
CO2_NBIO_STREX	18.8353793	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**11.11795407**
NOX_IDLEX	0.03904903	2.200427262	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.073222126**
NOX_RUNEX	0.207419042	2.26856283	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**1.174812321**
NOX_STREX	0.519027794	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.306366391**
PM10_IDLEX	0	0.027310751	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.000889599**
PM10_PMBW	0.076440022	0.076440022	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.076440022**
PM10_PMTW	0.008000002	0.012000003	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.009877394**
PM10_RUNEX	0.001288914	0.019478209	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.009826019**
PM10_STREX	0.000439809	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.000259606**
PM25_IDLEX	0	0.0261293	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.000851116**
PM25_PMBW	0.032760009	0.032760009	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.032760009**
PM25_PMTW	0.002000001	0.003000001	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.002469348**
PM25_RUNEX	0.001185109	0.018635591	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.009375454**
PM25_STREX	0.000404388	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.000238698**
ROG_DIURN	0.138274049	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.005478332**
ROG_HTSK	0.163894105	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.096741727**
ROG_IDLEX	0.447176273	0.109759705	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.021292075**
ROG_RESTL	0.076866715	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.003045412**
ROG_RUNEX	0.039269754	0.089161402	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.062686289**
ROG_RUNLS	0.942155589	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.556125916**
ROG_STREX	0.128246782	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.075700192**
SO2_IDLEX	0.00120537	0.001284225	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**8.95874E-05**
SO2_RUNEX	0.007957708	0.004547022	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.00635691**
SO2_STREX	0.000186391	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.000110021**
TOG_DIURN	0.138274049	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.005478332**
TOG_HTSK	0.163894105	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.096741727**
TOG_IDLEX	0.652518568	0.124954127	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.02992254**
TOG_RESTL	0.076866715	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.003045412**
TOG_RUNEX	0.057302333	0.101504328	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.078048442**
TOG_RUNLS	0.942155589	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.556125916**
TOG_STREX	0.140414084	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.082882182**

CH4_IDLEX	0.124200725	0.005098128	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.005086818**
CH4_RUNEX	0.007850722	0.004141377	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.006109749**
CH4_STREX	0.026724083	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.015774417**
CO_IDLEX	3.747902157	0.909745076	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.178122895**
CO_RUNEX	0.933977076	0.533777818	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.746144439**
CO_STREX	1.735343313	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**1.024320612**
CO2_NBIO_IDLEX	121.8061207	135.8451489	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**9.250798442**
CO2_NBIO_RUNEX	804.1057711	480.983297	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**652.4489524**
CO2_NBIO_STREX	18.97771115	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**11.20196825**
NOX_IDLEX	0.03904903	2.200427262	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.073222126**
NOX_RUNEX	0.229214359	2.362672869	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**1.230548393**
NOX_STREX	0.533616883	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.314977888**
PM10_IDLEX	0	0.027310751	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.000889599**
PM10_PMBW	0.076440022	0.076440022	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.076440022**
PM10_PMTW	0.008000002	0.012000003	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.009877394**
PM10_RUNEX	0.001288914	0.019478209	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.009826019**
PM10_STREX	0.000439809	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.000259606**
PM25_IDLEX	0	0.0261293	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.000851116**
PM25_PMBW	0.032760009	0.032760009	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.032760009**
PM25_PMTW	0.002000001	0.003000001	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.002469348**
PM25_RUNEX	0.001185109	0.018635591	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.009375454**
PM25_STREX	0.000404388	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.000238698**
ROG_DIURN	0.079556123	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.003151964**
ROG_HTSK	0.167755001	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.099020698**
ROG_IDLEX	0.447176273	0.109759705	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.021292075**
ROG_RESTL	0.040635699	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.001609961**
ROG_RUNEX	0.038060971	0.089161402	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.062044845**
ROG_RUNLS	1.009109738	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.595646923**
ROG_STREX	0.133069577	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.078546942**
SO2_IDLEX	0.00120537	0.001284225	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**8.95874E-05**
SO2_RUNEX	0.007957278	0.004547022	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.006356682**
SO2_STREX	0.0001878	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.000110853**
TOG_DIURN	0.079556123	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.003151964**
TOG_HTSK	0.167755001	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.099020698**
TOG_IDLEX	0.652518568	0.124954127	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.02992254**
TOG_RESTL	0.040635699	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.001609961**
TOG_RUNEX	0.05553848	0.101504328	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.077112449**
TOG_RUNLS	1.009109738	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.595646923**
TOG_STREX	0.145694437	0	0	14369.52529	11813.96292	0	483946.4297	428037.7653	0	214084.5162	148604.7916	0	**0.085999014**

LDH2 CalEEMod Emission Rate Worksheet

Vehicle Class: LHDT2

Pollutant	Emission Rates			Population			VMT			Trips			CalEEMod Emission
	Gas	DSL	ELEC	LHDT2 Gas	LHDT2 DSL	LHDT2 Elec	LHDT2 Gas	LHDT2 DSL	LHDT2 Elec	LHDT2 Gas	LHDT2 DSL	LHDT2 Elec	**Rate**
CH4_IDLEX	0.127105772	0.005098128	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.003695113**
CH4_RUNEX	0.004942784	0.003664017	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.004104298**
CH4_STREX	0.025783354	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.010438222**
CO_IDLEX	3.759914944	0.909745076	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.145213849**
CO_RUNEX	0.560559785	0.463009798	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.496596346**
CO_STREX	1.659923113	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.672008973**
CO2_NBIO_IDLEX	140.8931574	217.8735198	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**14.13711968**
CO2_NBIO_RUNEX	925.6418001	528.5140208	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**665.2454714**
CO2_NBIO_STREX	21.63775022	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**8.759901098**
NOX_IDLEX	0.039514836	2.189907318	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.104688067**
NOX_RUNEX	0.207762514	1.958170567	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**1.355503504**
NOX_STREX	0.550652494	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.222928046**
PM10_IDLEX	0	0.027691952	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.00131023**
PM10_PMBW	0.089180026	0.089180026	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.089180026**
PM10_PMTW	0.008000002	0.012000003	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.010622799**
PM10_RUNEX	0.001063753	0.018850921	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.012726783**
PM10_STREX	0.000338121	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.000136886**
PM25_IDLEX	0	0.02649401	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.00125355**
PM25_PMBW	0.038220011	0.038220011	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.038220011**
PM25_PMTW	0.002000001	0.003000001	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.0026557**
PM25_RUNEX	0.000978082	0.018035439	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.012162576**
PM25_STREX	0.00031089	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.000125862**
ROG_DIURN	0.062709922	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.001704043**
ROG_HTSK	0.12517933	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.05067803**
ROG_IDLEX	0.453024321	0.109759705	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.017503442**
ROG_RESTL	0.033841095	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.000919578**
ROG_RUNEX	0.021730723	0.078884135	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.059206164**
ROG_RUNLS	0.780177618	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.315849786**
ROG_STREX	0.126778412	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.051325408**
SO2_IDLEX	0.001394252	0.002059688	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.00013534**
SO2_RUNEX	0.009159976	0.004996358	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.006429896**
SO2_STREX	0.000214123	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**8.66863E-05**
TOG_DIURN	0.062709922	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.001704043**
TOG_HTSK	0.12517933	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.05067803**
TOG_IDLEX	0.661052026	0.124954127	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.023875182**
TOG_RESTL	0.033841095	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.000919578**
TOG_RUNEX	0.031709421	0.089804343	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.069802209**
TOG_RUNLS	0.780177618	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.315849786**
TOG_STREX	0.138806403	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.056194861**
CH4_IDLEX	0.127464564	0.005098128	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.003704863**
CH4_RUNEX	0.005063268	0.003664017	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.004145781**
CH4_STREX	0.024790469	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.010036258**
CO_IDLEX	3.759914944	0.909745076	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.145213849**
CO_RUNEX	0.573419313	0.463009798	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.501023893**
CO_STREX	1.574790291	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.637543509**
CO2_NBIO_IDLEX	140.8931574	217.8735198	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**14.13711968**
CO2_NBIO_RUNEX	925.6644451	528.5140208	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**665.2532681**
CO2_NBIO_STREX	21.48513519	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**8.698115905**
NOX_IDLEX	0.039514836	2.189907318	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.104688067**
NOX_RUNEX	0.181836233	1.852629405	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**1.277373817**
NOX_STREX	0.528782875	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.214074275**
PM10_IDLEX	0	0.027691952	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.00131023**
PM10_PMBW	0.089180026	0.089180026	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.089180026**
PM10_PMTW	0.008000002	0.012000003	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.010622799**
PM10_RUNEX	0.001063753	0.018850921	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.012726783**
PM10_STREX	0.000338121	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.000136886**
PM25_IDLEX	0	0.02649401	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.00125355**
PM25_PMBW	0.038220011	0.038220011	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.038220011**
PM25_PMTW	0.002000001	0.003000001	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.0026557**
PM25_RUNEX	0.000978082	0.018035439	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.012162576**
PM25_STREX	0.00031089	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.000125862**
ROG_DIURN	0.113086583	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.003072949**
ROG_HTSK	0.14365476	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.058157686**
ROG_IDLEX	0.453024321	0.109759705	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.017503442**
ROG_RESTL	0.064861708	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.001762514**
ROG_RUNEX	0.022255192	0.078884135	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.059386739**
ROG_RUNLS	0.783181633	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.317065942**
ROG_STREX	0.121513185	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.049193815**
SO2_IDLEX	0.001394252	0.002059688	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.00013534**
SO2_RUNEX	0.0091602	0.004996358	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.006429973**
SO2_STREX	0.000212613	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**8.60749E-05**
TOG_DIURN	0.113086583	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.003072949**
TOG_HTSK	0.14365476	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.058157686**
TOG_IDLEX	0.661052026	0.124954127	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.023875182**
TOG_RESTL	0.064861708	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.001762514**
TOG_RUNEX	0.032474723	0.089804343	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.070065703**
TOG_RUNLS	0.783181633	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.317065942**
TOG_STREX	0.133041642	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.053861035**

CH4_IDLEX	0.127148452	0.005098128	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.003696273**
CH4_RUNEX	0.004952735	0.003664017	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.004107724**
CH4_STREX	0.025658218	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.010387561**
CO_IDLEX	3.759914944	0.909745076	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.145213849**
CO_RUNEX	0.561438841	0.463009798	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.496899006**
CO_STREX	1.650055771	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.668014244**
CO2_NBIO_IDLEX	140.8931574	217.8735198	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**14.13711968**
CO2_NBIO_RUNEX	925.6433641	528.5140208	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**665.2460099**
CO2_NBIO_STREX	21.61981698	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**8.752640942**
NOX_IDLEX	0.039514836	2.189907318	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.104688067**
NOX_RUNEX	0.201179945	1.929414324	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**1.334381677**
NOX_STREX	0.543569268	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.220060449**
PM10_IDLEX	0	0.027691952	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.00131023**
PM10_PMBW	0.089180026	0.089180026	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.089180026**
PM10_PMTW	0.008000002	0.012000003	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.010622799**
PM10_RUNEX	0.001063753	0.018850921	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.012726783**
PM10_STREX	0.000338121	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.000136886**
PM25_IDLEX	0	0.02649401	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.00125355**
PM25_PMBW	0.038220011	0.038220011	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.038220011**
PM25_PMTW	0.002000001	0.003000001	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.0026557**
PM25_RUNEX	0.000978082	0.018035439	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.012162576**
PM25_STREX	0.00031089	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.000125862**
ROG_DIURN	0.063088419	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.001714328**
ROG_HTSK	0.144208844	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.058382004**
ROG_IDLEX	0.453024321	0.109759705	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.017503442**
ROG_RESTL	0.033932077	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.00092205**
ROG_RUNEX	0.021770288	0.078884135	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.059219786**
ROG_RUNLS	0.841916465	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.340844353**
ROG_STREX	0.126095343	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.051048872**
SO2_IDLEX	0.001394252	0.002059688	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.00013534**
SO2_RUNEX	0.009159991	0.004996358	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.006429901**
SO2_STREX	0.000213946	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**8.66145E-05**
TOG_DIURN	0.063088419	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.001714328**
TOG_HTSK	0.144208844	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.058382004**
TOG_IDLEX	0.661052026	0.124954127	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.023875182**
TOG_RESTL	0.033932077	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.00092205**
TOG_RUNEX	0.031767153	0.089804343	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.069822086**
TOG_RUNLS	0.841916465	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.340844353**
TOG_STREX	0.138058529	0	0	2566.416218	4468.655223	0	84834.80397	161562.4745	0	38235.77769	56210.06114	0	**0.055892089**

MHDT CalEEMod Emission Rate Worksheet

Vehicle Class: MHDT

Pollutant	Emission Rates			Population			VMT			Trips			CalEEMod Emission
	Gas	DSL	ELEC	MHDT Gas	MHDT DSL	MHDT Elec	MHDT Gas	MHDT DSL	MHDT Elec	MHDT Gas	MHDT DSL	MHDT Elec	**Rate**
CH4_IDLEX	0.264592191	0.004111989	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.002506877**
CH4_RUNEX	0.012096635	0.002614198	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.003321213**
CH4_STREX	0.039499189	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.006466798**
CO_IDLEX	14.33344258	2.271324594	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.306081914**
CO_RUNEX	1.536432132	0.225142837	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.32291321**
CO_STREX	4.536098868	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.742649102**
CO2_NBIO_IDLEX	543.4977917	775.6607872	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**68.92121199**
CO2_NBIO_RUNEX	1642.034389	920.7991769	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**974.5748282**
CO2_NBIO_STREX	38.80334845	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**6.352875619**
NOX_IDLEX	0.089111265	6.196629326	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.515800985**
NOX_RUNEX	0.428910316	1.709262235	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**1.613798568**
NOX_STREX	0.364932193	1.717651235	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**1.496184373**
PM10_IDLEX	0	0.014811568	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.001231157**
PM10_PMBW	0.130340037	0.130340037	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.130340037**
PM10_PMTW	0.012000003	0.012000003	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.012000003**
PM10_RUNEX	0.001061478	0.037749033	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.035013591**
PM10_STREX	0.000459761	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**7.52719E-05**
PM25_IDLEX	0	0.014170826	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.001177897**
PM25_PMBW	0.055860016	0.055860016	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.055860016**
PM25_PMTW	0.003000001	0.003000001	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.003000001**
PM25_RUNEX	0.00097599	0.036116026	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.033495968**
PM25_STREX	0.000422733	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**6.92098E-05**
ROG_DIURN	0.055380181	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.00045316**
ROG_HTSK	0.091145795	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.014922369**
ROG_IDLEX	1.000624695	0.088529996	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.015546555**
ROG_RESTL	0.029317016	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.000239893**
ROG_RUNEX	0.058490599	0.056282963	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.056447565**
ROG_RUNLS	0.502818372	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.082321313**
ROG_STREX	0.209436756	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.034288939**
SO2_IDLEX	0.005378351	0.007328059	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.000653127**
SO2_RUNEX	0.016249261	0.008699254	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.009262186**
SO2_STREX	0.000383991	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**6.28669E-05**
TOG_DIURN	0.055380181	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.00045316**
TOG_HTSK	0.091145795	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.014922369**
TOG_IDLEX	1.460109206	0.100784661	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.02032501**
TOG_RESTL	0.029317016	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.000239893**
TOG_RUNEX	0.085349344	0.064073869	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.065660178**
TOG_RUNLS	0.502818372	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.082321313**
TOG_STREX	0.229306885	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.037542072**
CH4_IDLEX	0.249822289	0.004115488	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.002386309**
CH4_RUNEX	0.012412701	0.002614198	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.003344779**
CH4_STREX	0.037929781	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.006209855**
CO_IDLEX	10.42275916	2.128885469	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.26224218**
CO_RUNEX	1.573047473	0.225142837	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.325643268**
CO_STREX	4.282356163	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.701106403**
CO2_NBIO_IDLEX	566.4721449	781.3924804	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**69.58563032**
CO2_NBIO_RUNEX	1642.098895	920.7991769	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**974.5796378**
CO2_NBIO_STREX	38.37082349	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**6.282062728**
NOX_IDLEX	0.092258647	6.198027868	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.515942988**
NOX_RUNEX	0.373987279	1.611663222	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**1.519381496**
NOX_STREX	0.349438335	1.717651235	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**1.493647722**
PM10_IDLEX	0	0.012520023	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.00104068**
PM10_PMBW	0.130340037	0.130340037	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.130340037**
PM10_PMTW	0.012000003	0.012000003	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.012000003**
PM10_RUNEX	0.001061478	0.037749033	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.035013591**
PM10_STREX	0.000459761	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**7.52719E-05**
PM25_IDLEX	0	0.011978413	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.000995661**
PM25_PMBW	0.055860016	0.055860016	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.055860016**
PM25_PMTW	0.003000001	0.003000001	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.003000001**
PM25_RUNEX	0.00097599	0.036116026	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.033495968**
PM25_STREX	0.000422733	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**6.92098E-05**
ROG_DIURN	0.10122157	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.000828267**
ROG_HTSK	0.105232661	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.017228668**
ROG_IDLEX	0.940590908	0.088605328	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.015061577**
ROG_RESTL	0.058404166	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.000477905**
ROG_RUNEX	0.05999043	0.056282963	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.056559393**
ROG_RUNLS	0.505968721	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.082837087**
ROG_STREX	0.200402696	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.032809885**
SO2_IDLEX	0.005605701	0.007382209	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.000659489**
SO2_RUNEX	0.0162499	0.008699254	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.009262234**
SO2_STREX	0.00037971	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**6.21661E-05**
TOG_DIURN	0.10122157	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.000828267**
TOG_HTSK	0.105232661	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.017228668**
TOG_IDLEX	1.372508045	0.100870421	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.019615323**
TOG_RESTL	0.058404166	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.000477905**
TOG_RUNEX	0.087537894	0.064073869	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.065823358**
TOG_RUNLS	0.505968721	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.082837087**
TOG_STREX	0.219415727	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.035922694**

CH4_IDLEX	0.286183738	0.004107157	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.002683152**
CH4_RUNEX	0.012096542	0.002614198	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.003321206**
CH4_STREX	0.039211943	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.006419771**
CO_IDLEX	19.80839936	2.468026243	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.367232024**
CO_RUNEX	1.537650887	0.225142837	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.323004081**
CO_STREX	4.500467803	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.736815593**
CO2_NBIO_IDLEX	511.3336973	767.7455918	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**68.0001011**
CO2_NBIO_RUNEX	1642.036513	920.7991769	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**974.5749866**
CO2_NBIO_STREX	38.7429613	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**6.342989048**
NOX_IDLEX	0.08470493	6.194698005	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.515604396**
NOX_RUNEX	0.415414842	1.681317666	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**1.586931331**
NOX_STREX	0.361050411	1.717651235	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**1.495548849**
PM10_IDLEX	0	0.017976082	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.001494195**
PM10_PMBW	0.130340037	0.130340037	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.130340037**
PM10_PMTW	0.012000003	0.012000003	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.012000003**
PM10_RUNEX	0.001061478	0.037749033	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.035013591**
PM10_STREX	0.000459761	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**7.52719E-05**
PM25_IDLEX	0	0.017198445	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.001429557**
PM25_PMBW	0.055860016	0.055860016	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.055860016**
PM25_PMTW	0.003000001	0.003000001	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.003000001**
PM25_RUNEX	0.00097599	0.036116026	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.033495968**
PM25_STREX	0.000422733	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**6.92098E-05**
ROG_DIURN	0.057520397	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.000470673**
ROG_HTSK	0.10175756	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.016659725**
ROG_IDLEX	1.084671997	0.088425966	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.016225643**
ROG_RESTL	0.029820773	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.000244015**
ROG_RUNEX	0.058535072	0.056282963	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.056450881**
ROG_RUNLS	0.54812114	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.089738272**
ROG_STREX	0.208272114	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.034098264**
SO2_IDLEX	0.005060061	0.00725328	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.000644307**
SO2_RUNEX	0.016249282	0.008699254	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.009262188**
SO2_STREX	0.000383393	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**6.2769E-05**
TOG_DIURN	0.057520397	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.000470673**
TOG_HTSK	0.10175756	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.016659725**
TOG_IDLEX	1.582750833	0.100666231	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.021318707**
TOG_RESTL	0.029820773	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.000244015**
TOG_RUNEX	0.085414239	0.064073869	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.065665017**
TOG_RUNLS	0.54812114	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.089738272**
TOG_STREX	0.228031749	0	0	1426.66617	14492.29473	0	78373.2467	972763.166	0	28544.73663	145806.4436	0	**0.037333308**

HHD CalEEMod Emission Rate Worksheet

Vehicle Class: HHDT

Pollutant	Emission Rates			Population			VMT			Trips			CalEEMod Emission
	Gas	DSL	NG	HHDT Gas	HHDT DSL	HHDT NG	HHDT Gas	HHDT DSL	HHDT NG	HHDT Gas	HHDT DSL	HHDT NG	Rate
CH4_IDLEX	0	0.210042411	1.278170333	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.029356376**
CH4_RUNEX	0.133830504	0.003422518	5.158229362	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.13599332**
CH4_STREX	0.000272862	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**1.99667E-07**
CO_IDLEX	0	61.21236275	19.4194819	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**5.949976577**
CO_RUNEX	37.9562349	0.329925512	13.18880653	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.670287286**
CO_STREX	5.177218301	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.003788439**
CO2_NBIO_IDLEX	0	11520.54214	4244.693617	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**1124.174368**
CO2_NBIO_RUNEX	2019.277878	1429.978209	3535.455775	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**1484.265464**
CO2_NBIO_STREX	47.75562673	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.034945266**
NOX_IDLEX	0	62.14974788	24.49851421	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**6.076375771**
NOX_RUNEX	5.621727445	3.413436846	3.52282629	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**3.41682119**
NOX_STREX	0.614848467	2.16759318	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**2.104078617**
PM10_IDLEX	0	0.034851253	0.043671092	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.003628278**
PM10_PMBW	0.061740018	0.06055921	0.061740018	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.060589876**
PM10_PMTW	0.020000006	0.035311492	0.03600001	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.035325231**
PM10_RUNEX	0.001813915	0.029027002	0.006061597	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.028429484**
PM10_STREX	0.001291407	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**9.44989E-07**
PM25_IDLEX	0	0.033343603	0.0417819	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.003471321**
PM25_PMBW	0.026460008	0.025953947	0.026460008	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.02596709**
PM25_PMTW	0.005000001	0.008827873	0.009000003	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.008831308**
PM25_RUNEX	0.001667827	0.027771307	0.005799375	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.02719962**
PM25_STREX	0.001187401	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**8.68883E-07**
ROG_DIURN	0.137255388	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**5.01984E-06**
ROG_HTSK	0.218962378	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.000160226**
ROG_IDLEX	0	4.522155512	0.070929837	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.429500781**
ROG_RESTL	0.081252856	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**2.97166E-06**
ROG_RUNEX	0.728597179	0.073685867	0.379234725	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.081711517**
ROG_RUNLS	1.081008385	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.00079103**
ROG_STREX	0.001424509	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**1.04239E-06**
SO2_IDLEX	0	0.10884037	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.010324735**
SO2_RUNEX	0.019982392	0.013509725	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.013164048**
SO2_STREX	0.000472581	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**3.45812E-07**
TOG_DIURN	0.137255388	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**5.01984E-06**
TOG_HTSK	0.218962378	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.000160226**
TOG_IDLEX	0	5.148129818	1.364474683	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.49842643**
TOG_RESTL	0.081252856	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**2.97166E-06**
TOG_RUNEX	1.063167293	0.08388575	5.61247071	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.226286692**
TOG_RUNLS	1.081008385	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.00079103**
TOG_STREX	0.001559658	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**1.14128E-06**
CH4_IDLEX	0	0.21971634	1.306977227	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.03048662**
CH4_RUNEX	0.13750231	0.003422518	5.158229362	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.135994271**
CH4_STREX	0.000260311	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**1.90483E-07**
CO_IDLEX	0	59.87728886	18.50497094	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**5.816581695**
CO_RUNEX	39.01344577	0.329925512	13.18880653	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.67056103**
CO_STREX	4.887804138	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.00357666**
CO2_NBIO_IDLEX	0	11485.23835	4273.305771	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**1121.036532**
CO2_NBIO_RUNEX	2021.059569	1429.978209	3535.455775	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**1484.265926**
CO2_NBIO_STREX	47.29667663	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.034609429**
NOX_IDLEX	0	60.32496149	24.21809431	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**5.901205034**
NOX_RUNEX	4.890784169	3.223304764	3.31553026	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**3.226107767**
NOX_STREX	0.587650266	2.16759318	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**2.104058715**
PM10_IDLEX	0	0.030586696	0.037095916	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.00317522**
PM10_PMBW	0.061740018	0.06055921	0.061740018	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.060589876**
PM10_PMTW	0.020000006	0.035311492	0.03600001	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.035325231**
PM10_RUNEX	0.001813915	0.029027002	0.006061597	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.028429484**
PM10_STREX	0.001291407	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**9.44989E-07**
PM25_IDLEX	0	0.029263529	0.035491163	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.003037861**
PM25_PMBW	0.026460008	0.025953947	0.026460008	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.02596709**
PM25_PMTW	0.005000001	0.008827873	0.009000003	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.008831308**
PM25_RUNEX	0.001667827	0.027771307	0.005799375	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.02719962**
PM25_STREX	0.001187401	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**8.68883E-07**
ROG_DIURN	0.269606722	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**9.86032E-06**
ROG_HTSK	0.248831555	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.000182083**
ROG_IDLEX	0	4.730432545	0.068157836	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.44923775**
ROG_RESTL	0.179941428	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**6.58099E-06**
ROG_RUNEX	0.75316189	0.073685867	0.379234725	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.081717877**
ROG_RUNLS	1.109178573	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.000811643**
ROG_STREX	0.001363062	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**9.97423E-07**
SO2_IDLEX	0	0.108506837	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.010293096**
SO2_RUNEX	0.020000023	0.013509725	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.013164052**
SO2_STREX	0.000468039	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**3.42488E-07**
TOG_DIURN	0.269606722	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**9.86032E-06**
TOG_HTSK	0.248831555	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.000182083**
TOG_IDLEX	0	5.385237366	1.390246905	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.521108923**
TOG_RESTL	0.179941428	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**6.58099E-06**
TOG_RUNEX	1.099012062	0.08388575	5.61247071	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.226295973**
TOG_RUNLS	1.109178573	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.000811643**
TOG_STREX	0.001492382	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**1.09205E-06**

CH4_IDLEX	0	0.196683176	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.018657615**
CH4_RUNEX	0.133894534	0.003422518	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.003368303**
CH4_STREX	0.000271317	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**1.98536E-07**
CO_IDLEX	0	63.05603622	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**5.981575427**
CO_RUNEX	37.98211088	0.329925512	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.331191983**
CO_STREX	5.136668402	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.003758766**
CO2_NBIO_IDLEX	0	11569.295	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**1097.477971**
CO2_NBIO_RUNEX	2019.320431	1429.978209	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**1393.364139**
CO2_NBIO_STREX	47.69132542	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.034898214**
NOX_IDLEX	0	64.669691	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**6.134648763**
NOX_RUNEX	5.444233027	3.365266124	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**3.279278901**
NOX_STREX	0.60818032	2.16759318	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**2.104073738**
PM10_IDLEX	0	0.040740403	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.003864686**
PM10_PMBW	0.061740018	0.06055921	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.059002456**
PM10_PMTW	0.020000006	0.035311492	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.034399622**
PM10_RUNEX	0.001813915	0.029027002	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.028273632**
PM10_STREX	0.001291407	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**9.44989E-07**
PM25_IDLEX	0	0.038977991	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.003697502**
PM25_PMBW	0.026460008	0.025953947	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.025286767**
PM25_PMTW	0.005000001	0.008827873	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.008599905**
PM25_RUNEX	0.001667827	0.027771307	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.02705051**
PM25_STREX	0.001187401	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**8.68883E-07**
ROG_DIURN	0.145637791	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**5.32641E-06**
ROG_HTSK	0.25511568	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.000186681**
ROG_IDLEX	0	4.234534847	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.401693337**
ROG_RESTL	0.08649777	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**3.16348E-06**
ROG_RUNEX	0.728953893	0.073685867	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.071960973**
ROG_RUNLS	1.133028727	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.000829096**
ROG_STREX	0.001416587	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**1.03659E-06**
SO2_IDLEX	0	0.109300963	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.010368428**
SO2_RUNEX	0.019982813	0.013509725	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.013164048**
SO2_STREX	0.000471944	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**3.45346E-07**
TOG_DIURN	0.145637791	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**5.32641E-06**
TOG_HTSK	0.25511568	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.000186681**
TOG_IDLEX	0	4.820695585	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.457297286**
TOG_RESTL	0.08649777	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**3.16348E-06**
TOG_RUNEX	1.063687809	0.08388575	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.081982635**
TOG_RUNLS	1.133028727	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**0.000829096**
TOG_STREX	0.001550985	0	0	5.738390567	14883.97368	1157.767624	475.6178858	1789151.452	47228.0217	114.8137185	152272.4335	4515.293732	**1.13494E-06**

OBUS CalEEMod Emission Rate Worksheet

Vehicle Class: OBUS

Pollutant	Emission Rates			Population			VMT			Trips			CalEEMod Emission
	Gas	DSL	NG	OBUS Gas	OBUS DSL	OBUS NG	OBUS Gas	OBUS DSL	OBUS NG	OBUS Gas	OBUS DSL	OBUS NG	**Rate**
CH4_IDLEX	0.199711949	0.044942878	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.00881946**
CH4_RUNEX	0.010678164	0.002335976	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.006595592**
CH4_STREX	0.029467189	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.023053058**
CO_IDLEX	5.752959702	13.09431651	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.51937518**
CO_RUNEX	1.297923774	0.2194521	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.770132022**
CO_STREX	3.128372193	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**2.447418592**
CO2_NBIO_IDLEX	378.3310603	2724.962088	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**76.06464459**
CO2_NBIO_RUNEX	1663.555125	1139.109383	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**1406.897353**
CO2_NBIO_STREX	26.18913366	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**20.48853802**
NOX_IDLEX	0.064820276	15.14632814	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.343104203**
NOX_RUNEX	0.419978869	2.099433935	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**1.241885046**
NOX_STREX	0.321197673	1.990340889	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.684520517**
PM10_IDLEX	0	0.026213868	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.000589427**
PM10_PMBW	0.130340037	0.130340037	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.130340037**
PM10_PMTW	0.012000003	0.012000003	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.012000003**
PM10_RUNEX	0.000900098	0.026878426	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.013613596**
PM10_STREX	0.000278874	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.000218171**
PM25_IDLEX	0	0.025079868	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.000563928**
PM25_PMBW	0.055860016	0.055860016	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.055860016**
PM25_PMTW	0.003000001	0.003000001	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.003000001**
PM25_RUNEX	0.000827607	0.025715677	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.013007545**
PM25_STREX	0.000256414	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.0002006**
ROG_DIURN	0.066547248	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.002602054**
ROG_HTSK	0.030983216	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.024239091**
ROG_IDLEX	0.742675278	0.967607838	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.050796181**
ROG_RESTL	0.028543919	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.001116091**
ROG_RUNEX	0.050687358	0.050292921	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.050494325**
ROG_RUNLS	0.364671488	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.285293349**
ROG_STREX	0.151523996	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.118541728**
SO2_IDLEX	0.003743893	0.025744091	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.000725253**
SO2_RUNEX	0.016462227	0.010761741	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.013672474**
SO2_STREX	0.000259163	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.000202751**
TOG_DIURN	0.066547248	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.002602054**
TOG_HTSK	0.030983216	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.024239091**
TOG_IDLEX	1.083710022	1.101547868	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.067142609**
TOG_RESTL	0.028543919	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.001116091**
TOG_RUNEX	0.073962874	0.057254663	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.065786066**
TOG_RUNLS	0.364671488	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.285293349**
TOG_STREX	0.165899703	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.129788271**
CH4_IDLEX	0.200311775	0.046387409	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.008875395**
CH4_RUNEX	0.010951202	0.002335976	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.006735009**
CH4_STREX	0.028117744	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.021997347**
CO_IDLEX	5.752959702	12.63548761	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.509058277**
CO_RUNEX	1.329093794	0.2194521	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.78604779**
CO_STREX	2.911275346	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**2.277577273**
CO2_NBIO_IDLEX	378.3310603	2717.449865	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**75.89573004**
CO2_NBIO_RUNEX	1663.610162	1139.109383	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**1406.925456**
CO2_NBIO_STREX	25.82049397	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**20.20014023**
NOX_IDLEX	0.064820276	14.78908731	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.335071538**
NOX_RUNEX	0.366180154	1.981181109	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**1.156543223**
NOX_STREX	0.307671693	1.990340889	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.673938741**
PM10_IDLEX	0	0.022279586	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.000500963**
PM10_PMBW	0.130340037	0.130340037	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.130340037**
PM10_PMTW	0.012000003	0.012000003	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.012000003**
PM10_RUNEX	0.000900098	0.026878426	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.013613596**
PM10_STREX	0.000278874	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.000218171**
PM25_IDLEX	0	0.021315781	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.000479292**
PM25_PMBW	0.055860016	0.055860016	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.055860016**
PM25_PMTW	0.003000001	0.003000001	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.003000001**
PM25_RUNEX	0.000827607	0.025715677	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.013007545**
PM25_STREX	0.000256414	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.0002006**
ROG_DIURN	0.119839985	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.004685845**
ROG_HTSK	0.034373416	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.026891345**
ROG_IDLEX	0.742675278	0.998708192	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.051495482**
ROG_RESTL	0.056497478	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.002209099**
ROG_RUNEX	0.05199297	0.050292921	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.051160986**
ROG_RUNLS	0.36513507	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.285656023**
ROG_STREX	0.144217538	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.112825668**
SO2_IDLEX	0.003743893	0.025673119	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.000723657**
SO2_RUNEX	0.016462771	0.010761741	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.013672752**
SO2_STREX	0.000255515	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.000199897**
TOG_DIURN	0.119839985	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.004685845**
TOG_HTSK	0.034373416	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.026891345**
TOG_IDLEX	1.083710022	1.136953253	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.06793871**
TOG_RESTL	0.056497478	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.002209099**
TOG_RUNEX	0.07586802	0.057254663	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.066758855**
TOG_RUNLS	0.36513507	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.285656023**
TOG_STREX	0.157900051	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.123529905**

CH4_IDLEX	0.199708156	0.04294805	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.008774458**
CH4_RUNEX	0.010685873	0.002335976	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.006599528**
CH4_STREX	0.029464492	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.023050948**
CO_IDLEX	5.752959702	13.72793736	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.533622333**
CO_RUNEX	1.29894294	0.2194521	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.77065242**
CO_STREX	3.135665327	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**2.453124227**
CO2_NBIO_IDLEX	378.3310603	2735.336109	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**76.29790754**
CO2_NBIO_RUNEX	1663.556906	1139.109383	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**1406.898263**
CO2_NBIO_STREX	26.20066178	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**20.49755681**
NOX_IDLEX	0.064820276	15.63966071	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.354196932**
NOX_RUNEX	0.406764878	2.067367839	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**1.219445049**
NOX_STREX	0.317739887	1.990340889	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.681815389**
PM10_IDLEX	0	0.031646925	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.00071159**
PM10_PMBW	0.130340037	0.130340037	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.130340037**
PM10_PMTW	0.012000003	0.012000003	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.012000003**
PM10_RUNEX	0.000900098	0.026878426	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.013613596**
PM10_STREX	0.000278874	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.000218171**
PM25_IDLEX	0	0.030277893	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.000680807**
PM25_PMBW	0.055860016	0.055860016	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.055860016**
PM25_PMTW	0.003000001	0.003000001	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.003000001**
PM25_RUNEX	0.000827607	0.025715677	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.013007545**
PM25_STREX	0.000256414	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.0002006**
ROG_DIURN	0.07005077	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.002739044**
ROG_HTSK	0.033688289	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.02635535**
ROG_IDLEX	0.742675278	0.924659731	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.04983048**
ROG_RESTL	0.02980743	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.001165496**
ROG_RUNEX	0.05072571	0.050292921	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.050513908**
ROG_RUNLS	0.388524991	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.303954654**
ROG_STREX	0.151514443	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.118534254**
SO2_IDLEX	0.003743893	0.025842099	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.000727457**
SO2_RUNEX	0.016462244	0.010761741	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.013672483**
SO2_STREX	0.000259277	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.00020284**
TOG_DIURN	0.07005077	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.002739044**
TOG_HTSK	0.033688289	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.02635535**
TOG_IDLEX	1.083710022	1.052654718	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.066043232**
TOG_RESTL	0.02980743	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.001165496**
TOG_RUNEX	0.074018837	0.057254663	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.065814641**
TOG_RUNLS	0.388524991	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.303954654**
TOG_STREX	0.165889243	0	0	409.5822199	235.5339692	0	18358.32454	17595.28877	0	8194.921055	2280.10077	0	**0.129780088**

UBUS CalEEMod Emission Rate Worksheet

Vehicle Class: UBUS

Pollutant	Emission Rates				Population				VMT				Trips				CalEEMod Emission
	Gas	DSL	ELEC	NG	UBUS Gas	UBUS DSL	UBUS ELEC	UBUS NG	UBUS Gas	UBUS DSL	UBUS ELEC	UBUS NG	UBUS Gas	UBUS DSL	UBUS ELEC	UBUS NG	Rate
CH4_IDLEX	0	0	0	0	114.8207	2.896720367	0	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
CH4_RUNEX	0.001995	0.188994217	0	6.559043098	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**4.447124683**
CH4_STREX	0.028971	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.010171698**
CO_IDLEX	0	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
CO_RUNEX	0.122827	0.278493704	0	51.21184727	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**34.74938943**
CO_STREX	2.536385	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.890512112**
CO2_NBIO_IDLEX	0	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
CO2_NBIO_RUNEX	942.525	1353.40612	0	2045.079837	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**1692.127316**
CO2_NBIO_STREX	33.53475	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**11.77388105**
NOX_IDLEX	0	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
NOX_RUNEX	0.072853	3.845482583	0	0.497187971	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.382229081**
NOX_STREX	0.390624	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.137145996**
PM10_IDLEX	0	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
PM10_PMBW	0.090652	0.130340079	0.130340079	0.064022237	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.072833854**
PM10_PMTW	0.008143	0.012000007	0.012000007	0.035174478	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.026486018**
PM10_RUNEX	0.000998	0.007941886	0	0.00338331	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.002654699**
PM10_STREX	0.000403	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.00014136**
PM25_IDLEX	0	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
PM25_PMBW	0.038851	0.055860034	0.055860034	0.027438101	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.031214509**
PM25_PMTW	0.002036	0.003000002	0.003000002	0.008793619	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.006621505**
PM25_RUNEX	0.000918	0.007598323	0	0.003236949	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.002528086**
PM25_STREX	0.00037	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.000129975**
ROG_DIURN	0.013953	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.001677868**
ROG_HTSK	0.027169	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.009538891**
ROG_IDLEX	0	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
ROG_RESTL	0.008399	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.000737209**
ROG_RUNEX	0.00541	0.002700354	0	0.093793711	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.065296445**
ROG_RUNLS	0.115334	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.040493068**
ROG_STREX	0.104774	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.036785789**
SO2_IDLEX	0	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
SO2_RUNEX	0.009327	0.012794555	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.003025366**
SO2_STREX	0.000332	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.000116512**
TOG_DIURN	0.013953	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.001677868**
TOG_HTSK	0.027169	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.009538891**
TOG_IDLEX	0	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
TOG_RESTL	0.008399	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.000737209**
TOG_RUNEX	0.007894	0.192882461	0	6.694069648	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**4.540528609**
TOG_RUNLS	0.115334	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.040493068**
TOG_STREX	0.114715	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.040275809**
CH4_IDLEX	0	0	0	0	114.8207	2.896720367	0	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
CH4_RUNEX	0.002047	0.188994217	0	6.559043098	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**4.447141253**
CH4_STREX	0.026304	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.009235254**
CO_IDLEX	0	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
CO_RUNEX	0.125732	0.278493704	0	51.21184727	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**34.75030861**
CO_STREX	2.163346	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.759539894**
CO2_NBIO_IDLEX	0	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
CO2_NBIO_RUNEX	942.5301	1353.40612	0	2045.079837	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**1692.128952**
CO2_NBIO_STREX	32.91038	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**11.55466862**
NOX_IDLEX	0	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
NOX_RUNEX	0.063567	3.845482583	0	0.497181429	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.379285961**
NOX_STREX	0.371427	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.130406055**
PM10_IDLEX	0	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
PM10_PMBW	0.090652	0.130340079	0.130340079	0.064022237	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.072833854**
PM10_PMTW	0.008143	0.012000007	0.012000007	0.035174478	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.026486018**
PM10_RUNEX	0.000998	0.007941886	0	0.00338331	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.002654699**
PM10_STREX	0.000403	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.00014136**
PM25_IDLEX	0	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
PM25_PMBW	0.038851	0.055860034	0.055860034	0.027438101	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.031214509**
PM25_PMTW	0.002036	0.003000002	0.003000002	0.008793619	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.006621505**
PM25_RUNEX	0.000918	0.007598323	0	0.003236949	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.002528086**
PM25_STREX	0.00037	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.000129975**
ROG_DIURN	0.025452	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.003060743**
ROG_HTSK	0.03209	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.011266728**
ROG_IDLEX	0	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
ROG_RESTL	0.016909	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.001484154**
ROG_RUNEX	0.005541	0.002700354	0	0.093793711	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.065337842**
ROG_RUNLS	0.112216	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.039398367**
ROG_STREX	0.094922	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.033326471**
SO2_IDLEX	0	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
SO2_RUNEX	0.009327	0.012794555	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.003025382**
SO2_STREX	0.000326	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.000114343**
TOG_DIURN	0.025452	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.003060743**
TOG_HTSK	0.03209	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.011266728**
TOG_IDLEX	0	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
TOG_RESTL	0.016909	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.001484154**
TOG_RUNEX	0.008085	0.192882461	0	6.694069648	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**4.540589016**
TOG_RUNLS	0.112216	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.039398367**
TOG_STREX	0.103927	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.03648829**

CH4_IDLEX	0	0	0	0	114.8207	2.896720367	0	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
CH4_RUNEX	0.001996	0.188994217	0	6.559043098	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**4.447125085**
CH4_STREX	0.029208	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.010254658**
CO_IDLEX	0	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
CO_RUNEX	0.122968	0.278493704	0	51.21184727	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**34.74943399**
CO_STREX	2.573233	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.903449236**
CO2_NBIO_IDLEX	0	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
CO2_NBIO_RUNEX	942.5252	1353.40612	0	2045.079837	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**1692.127396**
CO2_NBIO_STREX	33.5959	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**11.79535081**
NOX_IDLEX	0	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
NOX_RUNEX	0.070629	3.845482583	0	0.497186079	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.381523863**
NOX_STREX	0.387896	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.136188472**
PM10_IDLEX	0	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
PM10_PMBW	0.090652	0.130340079	0.130340079	0.064022237	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.072833854**
PM10_PMTW	0.008143	0.012000007	0.012000007	0.035174478	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.026486018**
PM10_RUNEX	0.000998	0.007941886	0	0.00338331	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.002654699**
PM10_STREX	0.000403	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.00014136**
PM25_IDLEX	0	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
PM25_PMBW	0.038851	0.055860034	0.055860034	0.027438101	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.031214509**
PM25_PMTW	0.002036	0.003000002	0.003000002	0.008793619	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.006621505**
PM25_RUNEX	0.000918	0.007598323	0	0.003236949	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.002528086**
PM25_STREX	0.00037	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.000129975**
ROG_DIURN	0.014032	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.001687408**
ROG_HTSK	0.030419	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.010680004**
ROG_IDLEX	0	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
ROG_RESTL	0.008486	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.000744833**
ROG_RUNEX	0.005416	0.002700354	0	0.093793711	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.065298446**
ROG_RUNLS	0.133429	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.046846369**
ROG_STREX	0.105592	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.037072815**
SO2_IDLEX	0	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
SO2_RUNEX	0.009327	0.012794555	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.003025367**
SO2_STREX	0.000332	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.000116725**
TOG_DIURN	0.014032	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.001687408**
TOG_HTSK	0.030419	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.010680004**
TOG_IDLEX	0	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0**
TOG_RESTL	0.008486	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.000744833**
TOG_RUNEX	0.007904	0.192882461	0	6.694069648	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**4.540531529**
TOG_RUNLS	0.133429	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.046846369**
TOG_STREX	0.11561	0	0	0	114.8207	2.896720367	0.058469431	209.2602095	13058.35	238.2836669	1.251702935	27968.0756	459.283	11.58688147	0.233877724	837.040838	**0.040590066**

MCY CalEEMod Emission Rate Worksheet

Vehicle Class: MCY

Pollutant	Emission Rates			Population			VMT			Trips			CalEEMod Emission
	Gas	DSL	NG	MCY Gas	MCY DSL	MCY NG	MCY Gas	MCY DSL	MCY NG	MCY Gas	MCY DSL	MCY NG	**Rate**
CH4_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
CH4_RUNEX	0.340366561	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.340366561**
CH4_STREX	0.240950195	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.240950195**
CO_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
CO_RUNEX	19.25949224	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**19.25949224**
CO_STREX	8.59599881	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**8.59599881**
CO2_NBIO_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
CO2_NBIO_RUNEX	212.0349279	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**212.0349279**
CO2_NBIO_STREX	60.730311	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**60.730311**
NOX_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
NOX_RUNEX	1.129144981	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**1.129144981**
NOX_STREX	0.262990247	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.262990247**
PM10_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
PM10_PMBW	0.011760003	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.011760003**
PM10_PMTW	0.004000001	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.004000001**
PM10_RUNEX	0.001964731	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.001964731**
PM10_STREX	0.002959927	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.002959927**
PM25_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
PM25_PMBW	0.005040001	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.005040001**
PM25_PMTW	0.001	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.001**
PM25_RUNEX	0.001837505	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.001837505**
PM25_STREX	0.002787355	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.002787355**
ROG_DIURN	2.8458699	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**1.42293495**
ROG_HTSK	0.79871289	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.79871289**
ROG_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
ROG_RESTL	1.558446081	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.77922304**
ROG_RUNEX	2.325371761	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**2.325371761**
ROG_RUNLS	1.908074354	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**1.908074354**
ROG_STREX	1.843158241	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**1.843158241**
SO2_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
SO2_RUNEX	0.002098257	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.002098257**
SO2_STREX	0.000600976	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.000600976**
TOG_DIURN	2.8458699	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**1.42293495**
TOG_HTSK	0.79871289	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.79871289**
TOG_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
TOG_RESTL	1.558446081	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.77922304**
TOG_RUNEX	2.866196381	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**2.866196381**
TOG_RUNLS	1.908074354	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**1.908074354**
TOG_STREX	2.005664704	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**2.005664704**
CH4_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
CH4_RUNEX	0.335631327	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.335631327**
CH4_STREX	0.212904434	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.212904434**
CO_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
CO_RUNEX	19.27555026	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**19.27555026**
CO_STREX	7.900726133	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**7.900726133**
CO2_NBIO_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
CO2_NBIO_RUNEX	211.8980519	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**211.8980519**
CO2_NBIO_STREX	58.878141	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**58.878141**
NOX_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
NOX_RUNEX	0.974771189	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.974771189**
NOX_STREX	0.24762997	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.24762997**
PM10_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
PM10_PMBW	0.011760003	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.011760003**
PM10_PMTW	0.004000001	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.004000001**
PM10_RUNEX	0.001964731	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.001964731**
PM10_STREX	0.002959927	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.002959927**
PM25_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
PM25_PMBW	0.005040001	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.005040001**
PM25_PMTW	0.001	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.001**
PM25_RUNEX	0.001837505	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.001837505**
PM25_STREX	0.002787355	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.002787355**
ROG_DIURN	5.544676896	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**2.772338448**
ROG_HTSK	1.114326695	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**1.114326695**
ROG_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
ROG_RESTL	3.535255924	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**1.767627962**
ROG_RUNEX	2.279362292	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**2.279362292**
ROG_RUNLS	1.879762448	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**1.879762448**
ROG_STREX	1.617435101	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**1.617435101**
SO2_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
SO2_RUNEX	0.002096903	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.002096903**
SO2_STREX	0.000582647	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.000582647**
TOG_DIURN	5.544676896	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**2.772338448**
TOG_HTSK	1.114326695	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**1.114326695**
TOG_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
TOG_RESTL	3.535255924	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**1.767627962**
TOG_RUNEX	2.811637046	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**2.811637046**
TOG_RUNLS	1.879762448	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**1.879762448**
TOG_STREX	1.760098088	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**1.760098088**

CH4_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
CH4_RUNEX	0.338016686	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.338016686**
CH4_STREX	0.237669166	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.237669166**
CO_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
CO_RUNEX	18.75718331	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**18.75718331**
CO_STREX	8.436730363	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**8.436730363**
CO2_NBIO_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
CO2_NBIO_RUNEX	211.1689089	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**211.1689089**
CO2_NBIO_STREX	60.38431342	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**60.38431342**
NOX_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
NOX_RUNEX	1.094970638	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**1.094970638**
NOX_STREX	0.260996589	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.260996589**
PM10_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
PM10_PMBW	0.011760003	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.011760003**
PM10_PMTW	0.004000001	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.004000001**
PM10_RUNEX	0.001964731	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.001964731**
PM10_STREX	0.002959927	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.002959927**
PM25_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
PM25_PMBW	0.005040001	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.005040001**
PM25_PMTW	0.001	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.001**
PM25_RUNEX	0.001837505	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.001837505**
PM25_STREX	0.002787355	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.002787355**
ROG_DIURN	3.147061498	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**1.573530749**
ROG_HTSK	1.056813736	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**1.056813736**
ROG_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
ROG_RESTL	1.485354927	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.742677463**
ROG_RUNEX	2.305958823	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**2.305958823**
ROG_RUNLS	2.175100187	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**2.175100187**
ROG_STREX	1.814985285	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**1.814985285**
SO2_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
SO2_RUNEX	0.002089688	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.002089688**
SO2_STREX	0.000597552	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.000597552**
TOG_DIURN	3.147061498	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**1.573530749**
TOG_HTSK	1.056813736	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**1.056813736**
TOG_IDLEX	0	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0**
TOG_RESTL	1.485354927	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**0.742677463**
TOG_RUNEX	2.842712865	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**2.842712865**
TOG_RUNLS	2.175100187	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**2.175100187**
TOG_STREX	1.975031276	0	0	23940.89968	0	0	154635.86	0	0	47881.79935	0	0	**1.975031276**

SBUS CalEEMod Emission Rate Worksheet

Vehicle Class: SBUS

Pollutant	Emission Rates			Population			VMT			Trips			CalEEMod Emission
	Gas	DSL	NG	SBUS Gas	SBUS DSL	SBUS NG	SBUS Gas	SBUS DSL	SBUS NG	SBUS Gas	SBUS DSL	SBUS NG	**Rate**
CH4_IDLEX	2.412568822	0.013399237	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.059621573**
CH4_RUNEX	0.016097711	0.005380111	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.008584425**
CH4_STREX	0.06340424	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.006157403**
CO_IDLEX	82.0965418	6.539080463	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**2.50479126**
CO_RUNEX	1.830918634	0.333276565	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.781036895**
CO_STREX	8.465824624	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.82214526**
CO2_NBIO_IDLEX	2638.599252	3591.475812	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**345.0603562**
CO2_NBIO_RUNEX	886.6175661	1208.36757	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**1112.171763**
CO2_NBIO_STREX	49.3293737	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**4.790544639**
NOX_IDLEX	0.924927885	41.71481109	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**3.286250812**
NOX_RUNEX	0.583928992	7.161949945	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**5.195273863**
NOX_STREX	0.551118006	0.943871167	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.905729561**
PM10_IDLEX	0	0.055697114	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.00435778**
PM10_PMBW	0.744800204	0.744800213	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.744800211**
PM10_PMTW	0.008000002	0.012000003	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.010804096**
PM10_RUNEX	0.000991956	0.045074309	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.031894705**
PM10_STREX	0.000407211	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**3.95457E-05**
PM25_IDLEX	0	0.053287681	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.004169264**
PM25_PMBW	0.319200087	0.319200091	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.31920009**
PM25_PMTW	0.002000001	0.003000001	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.002701024**
PM25_RUNEX	0.000912067	0.043124414	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.030503899**
PM25_STREX	0.000374416	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**3.63608E-05**
ROG_DIURN	0.051146302	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.001241748**
ROG_HTSK	0.097946971	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.009511966**
ROG_IDLEX	10.61755304	0.288481899	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.280347766**
ROG_RESTL	0.024312355	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.000590264**
ROG_RUNEX	0.080276132	0.115832312	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.105201837**
ROG_RUNLS	0.660488308	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.064142285**
ROG_STREX	0.368413582	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.035777906**
SO2_IDLEX	0.026111079	0.033930483	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.003288678**
SO2_RUNEX	0.0087738	0.011416058	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.010626084**
SO2_STREX	0.000488154	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**4.74063E-05**
TOG_DIURN	0.051146302	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.001241748**
TOG_HTSK	0.097946971	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.009511966**
TOG_IDLEX	15.49310848	0.328414683	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.401842611**
TOG_RESTL	0.024312355	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.000590264**
TOG_RUNEX	0.117138743	0.13186627	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.12746308**
TOG_RUNLS	0.660488308	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.064142285**
TOG_STREX	0.403366499	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.039172304**
CH4_IDLEX	2.415740897	0.013277568	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.059689067**
CH4_RUNEX	0.016531625	0.005380111	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.008714156**
CH4_STREX	0.05308533	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.005155298**
CO_IDLEX	82.0965418	6.057676006	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**2.467125849**
CO_RUNEX	1.88098033	0.333276565	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.796004184**
CO_STREX	6.13169799	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.595470218**
CO2_NBIO_IDLEX	2638.599252	3692.676291	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**352.9783503**
CO2_NBIO_RUNEX	886.7064449	1208.36757	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**1112.198335**
CO2_NBIO_STREX	45.42733618	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**4.411604395**
NOX_IDLEX	0.924927885	42.60160302	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**3.355634013**
NOX_RUNEX	0.50522179	6.743327057	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**4.878277901**
NOX_STREX	0.514658328	0.943871167	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.902188837**
PM10_IDLEX	0	0.047048059	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.003681072**
PM10_PMBW	0.744800204	0.744800213	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.744800211**
PM10_PMTW	0.008000002	0.012000003	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.010804096**
PM10_RUNEX	0.000991956	0.045074309	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.031894705**
PM10_STREX	0.000407211	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**3.95457E-05**
PM25_IDLEX	0	0.045012781	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.00352183**
PM25_PMBW	0.319200087	0.319200091	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.31920009**
PM25_PMTW	0.002000001	0.003000001	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.002701024**
PM25_RUNEX	0.000912067	0.043124414	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.030503899**
PM25_STREX	0.000374416	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**3.63608E-05**
ROG_DIURN	0.090935089	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.002207755**
ROG_HTSK	0.102815662	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.009984782**
ROG_IDLEX	10.61755304	0.285862405	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.280142815**
ROG_RESTL	0.04585704	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.001113334**
ROG_RUNEX	0.08248542	0.115832312	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.105862363**
ROG_RUNLS	0.6072324	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.058970421**
ROG_STREX	0.308153189	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.029925813**
SO2_IDLEX	0.026111079	0.034886575	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.003363483**
SO2_RUNEX	0.008774679	0.011416058	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.010626347**
SO2_STREX	0.00044954	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**4.36564E-05**
TOG_DIURN	0.090935089	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.002207755**
TOG_HTSK	0.102815662	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.009984782**
TOG_IDLEX	15.49310848	0.325432588	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.401609289**
TOG_RESTL	0.04585704	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.001113334**
TOG_RUNEX	0.120362531	0.13186627	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.128426918**
TOG_RUNLS	0.6072324	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.058970421**
TOG_STREX	0.337388954	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.032764998**

CH4_IDLEX	2.411856662	0.013567256	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.059617429**
CH4_RUNEX	0.016071172	0.005380111	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.008576491**
CH4_STREX	0.06532789	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.006344215**
CO_IDLEX	82.0965418	7.203877094	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**2.556805399**
CO_RUNEX	1.827656117	0.333276565	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.780061478**
CO_STREX	8.847748116	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.85923516**
CO2_NBIO_IDLEX	2638.599252	3451.722769	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**334.1259835**
CO2_NBIO_RUNEX	886.6118877	1208.36757	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**1112.170065**
CO2_NBIO_STREX	49.97262765	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**4.853013237**
NOX_IDLEX	0.924927885	40.49019367	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**3.190435915**
NOX_RUNEX	0.570697711	7.058379895	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**5.118713015**
NOX_STREX	0.555032773	0.943871167	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.906109738**
PM10_IDLEX	0	0.067641046	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.005292281**
PM10_PMBW	0.744800204	0.744800213	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.744800211**
PM10_PMTW	0.008000002	0.012000003	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.010804096**
PM10_RUNEX	0.000991956	0.045074309	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.031894705**
PM10_STREX	0.000407211	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**3.95457E-05**
PM25_IDLEX	0	0.064714924	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.00506334**
PM25_PMBW	0.319200087	0.319200091	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.31920009**
PM25_PMTW	0.002000001	0.003000001	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.002701024**
PM25_RUNEX	0.000912067	0.043124414	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.030503899**
PM25_STREX	0.000374416	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**3.63608E-05**
ROG_DIURN	0.049726995	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.00120729**
ROG_HTSK	0.103761094	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.010076596**
ROG_IDLEX	10.61755304	0.292099297	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.280630793**
ROG_RESTL	0.024766929	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.0006013**
ROG_RUNEX	0.080158544	0.115832312	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.105166681**
ROG_RUNLS	0.793306801	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.077040744**
ROG_STREX	0.379697736	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.036873749**
SO2_IDLEX	0.026111079	0.032610165	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.003185376**
SO2_RUNEX	0.008773743	0.011416058	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.010626067**
SO2_STREX	0.00049452	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**4.80245E-05**
TOG_DIURN	0.049726995	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.00120729**
TOG_HTSK	0.103761094	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.010076596**
TOG_IDLEX	15.49310848	0.332532814	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.402164816**
TOG_RESTL	0.024766929	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.0006013**
TOG_RUNEX	0.116967159	0.13186627	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.127411781**
TOG_RUNLS	0.793306801	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.077040744**
TOG_STREX	0.415721227	0	0	236.4064257	761.8554538	0	10313.05593	24181.43891	0	945.6257028	8791.70631	0	**0.040372114**

MH CalEEMod Emission Rate Worksheet

Vehicle Class: MH

Pollutant	Emission Rates			Population			VMT			Trips			CalEEMod Emission
	Gas	DSL	NG	MH Gas	MH DSL	MH NG	MH Gas	MH DSL	MH NG	MH Gas	MH DSL	MH NG	**Rate**
CH4_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
CH4_RUNEX	0.003658097	0.003658097	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.003658097**
CH4_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
CO_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
CO_RUNEX	0.345622761	0.345622761	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.345622761**
CO_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
CO2_NBIO_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
CO2_NBIO_RUNEX	970.20504	970.20504	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**970.20504**
CO2_NBIO_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
NOX_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
NOX_RUNEX	4.24396631	4.24396631	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**4.24396631**
NOX_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
PM10_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
PM10_PMBW	0.130340037	0.130340037	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.130340037**
PM10_PMTW	0.016000005	0.016000005	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.016000005**
PM10_RUNEX	0.114332481	0.114332481	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.114332481**
PM10_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
PM25_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
PM25_PMBW	0.055860016	0.055860016	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.055860016**
PM25_PMTW	0.004000001	0.004000001	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.004000001**
PM25_RUNEX	0.109386509	0.109386509	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.109386509**
PM25_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
ROG_DIURN	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
ROG_HTSK	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
ROG_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
ROG_RESTL	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
ROG_RUNEX	0.07875668	0.07875668	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.07875668**
ROG_RUNLS	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
ROG_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
SO2_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
SO2_RUNEX	0.009171927	0.009171927	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.009171927**
SO2_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
TOG_DIURN	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
TOG_HTSK	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
TOG_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
TOG_RESTL	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
TOG_RUNEX	0.089659244	0.089659244	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.089659244**
TOG_RUNLS	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
TOG_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
CH4_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
CH4_RUNEX	0.003658097	0.003658097	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.003658097**
CH4_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
CO_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
CO_RUNEX	0.345622761	0.345622761	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.345622761**
CO_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
CO2_NBIO_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
CO2_NBIO_RUNEX	970.20504	970.20504	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**970.20504**
CO2_NBIO_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
NOX_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
NOX_RUNEX	4.0016033	4.0016033	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**4.0016033**
NOX_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
PM10_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
PM10_PMBW	0.130340037	0.130340037	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.130340037**
PM10_PMTW	0.016000005	0.016000005	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.016000005**
PM10_RUNEX	0.114332481	0.114332481	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.114332481**
PM10_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
PM25_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
PM25_PMBW	0.055860016	0.055860016	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.055860016**
PM25_PMTW	0.004000001	0.004000001	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.004000001**
PM25_RUNEX	0.109386509	0.109386509	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.109386509**
PM25_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
ROG_DIURN	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
ROG_HTSK	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
ROG_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
ROG_RESTL	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
ROG_RUNEX	0.07875668	0.07875668	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.07875668**
ROG_RUNLS	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
ROG_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
SO2_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
SO2_RUNEX	0.009171927	0.009171927	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.009171927**
SO2_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
TOG_DIURN	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
TOG_HTSK	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
TOG_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
TOG_RESTL	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
TOG_RUNEX	0.089659244	0.089659244	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.089659244**
TOG_RUNLS	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
TOG_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**

CH4_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
CH4_RUNEX	0.003658097	0.003658097	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.003658097**
CH4_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
CO_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
CO_RUNEX	0.345622761	0.345622761	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.345622761**
CO_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
CO2_NBIO_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
CO2_NBIO_RUNEX	970.20504	970.20504	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**970.20504**
CO2_NBIO_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
NOX_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
NOX_RUNEX	4.174601263	4.174601263	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**4.174601263**
NOX_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
PM10_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
PM10_PMBW	0.130340037	0.130340037	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.130340037**
PM10_PMTW	0.016000005	0.016000005	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.016000005**
PM10_RUNEX	0.114332481	0.114332481	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.114332481**
PM10_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
PM25_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
PM25_PMBW	0.055860016	0.055860016	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.055860016**
PM25_PMTW	0.004000001	0.004000001	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.004000001**
PM25_RUNEX	0.109386509	0.109386509	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.109386509**
PM25_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
ROG_DIURN	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
ROG_HTSK	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
ROG_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
ROG_RESTL	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
ROG_RUNEX	0.07875668	0.07875668	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.07875668**
ROG_RUNLS	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
ROG_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
SO2_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
SO2_RUNEX	0.009171927	0.009171927	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.009171927**
SO2_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
TOG_DIURN	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
TOG_HTSK	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
TOG_IDLEX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
TOG_RESTL	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
TOG_RUNEX	0.089659244	0.089659244	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0.089659244**
TOG_RUNLS	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**
TOG_STREX	0	0	0	3599.155888	1326.593838	0	30327.10079	11555.38776	0	360.059555	132.6593838	0	**0**

3. TRU and Off-Road Equipment Emissions Worksheets

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Transport Refrigeration Unit Emissions Worksheet

OFFROAD2017*

Region	CalYr	VehClass	MdlYr	HP_Bin	Fuel	ROG_tpd	NOx_tpd	CO_tpd	SOx_tpd	PM10_tpd	PM2_5_tpd	CO2_tpd	Fuel_gpy	Total_Activity_hpy	Total_Population
San Bernardino (SC)	2022	TRU - Instate Trailer TRU	Aggregated	50	Diesel	0.033375632	0.268550131	0.410939603	5.80607E-05	0.004247866	0.003908037	6.326958792	4016.124249	1608055.868	1213.734269

**OFFROAD2017, Version 1.0.1., https://www.arb.ca.gov/orion/*

Calculated Emission Rates

Total Annual Hours	1608055.868	**Conversion Rate**	
Total Population	1213.734269	Grams/Pound	453.592
Total Hours/Unit	1324.882974		
Hours/Unit/Day	3.629816366		

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2
Tons/Day	0.033375632	0.268550131	0.410939603	5.80607E-05	0.004247866	0.003908037	6.326958792
Pounds/Day	66.75126497	537.1002625	821.8792061	0.116121468	8.495731592	7.816073064	12653.91758
lbs/Day/Unit	***0.05499661***	***0.442518825***	***0.677149214***	***9.5673E-05***	***0.00699966***	***0.00643969***	***10.4256079***
lbs/hour/unit	0.015151347	0.12191218	0.18655192	2.63575E-05	0.00192838	0.001774109	2.872213591
lbs/min/unit	0.000252522	0.00203187	0.003109199	4.39292E-07	3.21397E-05	2.95685E-05	0.047870227
grams/min/unit	0.11454216	0.921639823	1.410307645	0.000199259	0.014578292	0.013412029	21.71355179
grams/sec/unit	0.001909036	0.015360664	0.023505127	3.32099E-06	0.000242972	0.000223534	0.36189253

Project Emissions

Number of TRUs[1]

Truck Type	Trips/Day	Trucks/Day
Medium Heavy Trucks	64	32
Heavy Heavy Trucks	74	37
Total	**138**	**69**

TRU Idling per Truck[2]	30	mins/truck/day
Total TRU Idling:	2,070	mins

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2	CO2/MT/yr
			Pound Per Day					**Tons Per Year**
				Running				
Emission Rate (lb/day/unit)	**0.054996606**	**0.442518825**	**0.677149214**	**9.56729E-05**	**0.006999664**	**0.006439691**	**10.4256079**	
Total Emissions	3.795	30.534	46.723	0.007	0.483	0.444	719.367	119.099
				Idling				
Emission Rate (lb/day/unit)	**0.000252522**	**0.00203187**	**0.003109199**	**4.39292E-07**	**3.21397E-05**	**2.95685E-05**	**0.047870227**	
Total Emissions	0.523	4.206	6.436	0.001	0.067	0.061	99.091	16.406

(1) From TIA from Urban Crossroads (June 17, 2019). For this evaluation, Heavy-Heavy Duty Trucks (HHDT) assumed 4+/5-axle trucks and Medium-Heavy Duty Trucks (MHDT) assumed 2-4-axle trucks.

(2) TRU cycle duration assumptions from CARB's Risk Characterization Scenarios, Appendix VII for Distribution Center Scenario (October 2000). TRU's assumed cycled 25 percent of the time for two hours (i.e., 15 min every hour for two

Diesel-Powered Off-Road Equipment Emissions Worksheet

OFFROAD2017*

Region	CalYr	VehClass	MdlYr	HP_Bin	Fuel	ROG_tpd	NOx_tpd	CO_tpd	SOx_tpd	PM10_tpd	PM2_5_tpd	CO2_tpd	Fuel_gpy	Total_Activity_hpy	Total_Population
San Bernardino (SC)	2022	CHE - Rail Yard Tractor	Aggregated	175	Diesel	0.003733365	0.013479001	0.182325104	0.000261421	0.000531334	0.000488827	28.28546533	917690.7718	274296.4581	65.73194004

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Calculated Emission Rates

Total Annual Hours	274296.4581	**Conversion Rate**	
Total Population	65.73194004	Grams/Pound	453.592
Total Hours/Unit	4172.955461		
Hours/Unit/Day	11.43275469		

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2
Tons/Day	0.003733365	0.013479001	0.182325104	0.000261421	0.000531334	0.000488827	28.28546533
Pounds/Day	7.466730019	26.95800229	364.6502084	0.522841183	1.062668058	0.977654613	56570.93066
lbs/Day/Unit	***0.113593635***	***0.41012029***	***5.547534549***	***0.007954142***	***0.016166692***	***0.014873357***	***860.6307775***
lbs/hour/unit	0.009935806	0.035872395	0.485231661	0.000695733	0.001414068	0.001300943	75.27763877
lbs/min/unit	0.000165597	0.000597873	0.008087194	1.15955E-05	2.35678E-05	2.16824E-05	1.254627313
grams/min/unit	0.07511337	0.271190522	3.668286661	0.005259647	0.010690165	0.009834952	569.0889121
grams/sec/unit	0.00125189	0.004519842	0.061138111	8.76608E-05	0.000178169	0.000163916	9.484815202

Project Emissions

Number of Yard Trucks[1]

Truck Type	Trucks/Day
Diesel Powered	3

Daily Hours of Operation	4	hr/truck/day
Total Daily Op Hours	12	hours

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2	CO2/MT/yr
				Pound Per Day				**Tons Per Year**
				Running				
Emission Rate (lb/day/unit)	**0.113593635**	**0.41012029**	**5.547534549**	**0.007954142**	**0.016166692**	**0.014873357**	**860.6307775**	
Total Emissions	0.341	1.230	16.643	0.024	0.049	0.045	2581.892	427.461
				Running				
Emission Rate (lb/hour/unit)	**0.009935806**	**0.035872395**	**0.485231661**	**0.000695733**	**0.001414068**	**0.001300943**	**75.27763877**	
Total Emissions (lb)	0.119	0.430	5.823	0.008	0.017	0.016	903.332	149.557
DPM Emissions (lb/hr)					7.07E-04			
DPM Emissions (g/s)					8.91E-05			

(1) For purposes of the analysis, the 7 yard trucks would consist of 3 diesel-powered units and 4 CNG-powered units. Based on 3.6 yard trucks per million square feet of building space. 2014, June. SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results. http://www.aqmd.gov/docs/default-source/ceqa/handbook/high-cube-warehouse-trip-rate-study-for-air-quality-analysis/business-survey-summary.pdf.

CNG-Powered Off-Road Equipment Emissions Worksheet

CalYr

OFFROAD2017*

Region	CalYr	VehClass	MdlYr	HP_Bin	Fuel	ROG_tpd	NOx_tpd	CO_tpd	SOx_tpd	PM10_tpd	PM2_5_tpd	CO2_tpd	Fuel_gpy	Total_Activity_hpy	Total_Population
San Bernardino (SC)	2022	OFF - AirGrSupp - Fuel Truck	Aggregated	175	Nat Gas	0	7.03456E-05	0.000610126	0	0	0	0.019679115	1069.45	281.05	0.47

**OFFROAD2017, Version 1.0.1., https://www.arb.ca.gov/orion/*

Calculated Emission Rates

Total Annual Hours	281.05	**Conversion Rate**	
Total Population	0.47	Grams/Pound	453.592
Total Hours/Unit	597.9787234		
Hours/Unit/Day	1.638297872		

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2
Tons/Day	0	7.03456E-05	0.000610126	0	0	0	0.019679115
Pounds/Day	0	0.140691148	1.220251722	0	0	0	39.35823023
lbs/Day/Unit	***0***	***0.299342867***	***2.59628026***	***0***	***0***	***0***	***83.74091539***
lbs/hour/unit	0	0.182715776	1.584742496	0	0	0	51.11458472
lbs/min/unit	0	0.003045263	0.026412375	0	0	0	0.851909745
grams/min/unit	0	1.381306905	11.98044197	0	0	0	386.4194452
grams/sec/unit	0	0.023021782	0.199674033	0	0	0	6.440324086

Project Emissions

Number of Yard Trucks

Truck Type	Trucks/Day
CNG-Powered	4

Daily Hours of Operation	4	hr/truck/day
Total Daily Op Hours	16	hours

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2	CO2/MT/yr
				Pound Per Day				**Tons Per Year**
				Running				
Emission Rate (lb/day/unit)	**0**	**0.299342867**	**2.59628026**	**0**	**0**	**0**	**83.74091539**	
Total Emissions	0.000	1.197	10.385	0.000	0.000	0.000	334.964	55.457
				Running				
Emission Rate (lb/hour/unit)	**0**	**0.182715776**	**1.584742496**	**0**	**0**	**0**	**51.11458472**	
Total Emissions	0.000	2.923	25.356	0.000	0.000	0.000	817.833	135.401

(1) For purposes of the analysis, the 7 yard trucks would consist of 3 diesel-powered units and 4 CNG-powered units. Based on 3.6 yard trucks per million square feet of building space. 2014, June. SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results. http://www.aqmd.gov/docs/default-source/ceqa/handbook/high-cube-warehouse-trip-rate-study-for-air-quality-analysis/business-survey-summary.pdf.

4. CalEEMod Output: Phase 1 Construction

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Phase 1 Construction

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	200.00	1000sqft	4.59	200,000.00	0
Unrefrigerated Warehouse-No Rail	1,247.12	1000sqft	28.15	1,227,123.00	0
Other Asphalt Surfaces	16.22	Acre	16.22	706,467.00	0
Other Non-Asphalt Surfaces	6.72	Acre	6.72	292,958.00	0
Parking Lot	6.32	Acre	6.32	275,315.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2021
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions file in the AQ/GHG appendix for details.

Construction Phase - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment -

Off-road Equipment - Placeholder for haul trips only. No additional equipment assumed.

Off-road Equipment - Based on information provided. See the assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - Based on information provided. See the assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - See assumptions file in the AQ/GHG appendix for details.

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Off-road Equipment -

Off-road Equipment - See assumptions file in the AQ/GHG appendix for details.

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Off-road Equipment - Based on information provided. See the assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - See the assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - Based on information provided. See the assumptions file in the AQ/GHG appendix for details.

Trips and VMT - See assumptions file in the AQ/GHG appendix for details.

Demolition -

Grading -

Architectural Coating - See assumptions file in the AQ/GHG appendix for details.

Construction Off-road Equipment Mitigation - Based on SCAQMD Rules 403 and 1186.

Area Coating - See assumptions file

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	713,562.00	723,562.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,140,685.00	2,170,685.00
tblArchitecturalCoating	ConstArea_Parking	76,484.00	16,519.00
tblAreaCoating	Area_Nonresidential_Exterior	713560	723562

tblAreaCoating	Area_Nonresidential_Interior	2140680	2170685
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	75.00	45.00
tblConstructionPhase	NumDays	1,110.00	246.00
tblConstructionPhase	NumDays	70.00	10.00
tblConstructionPhase	NumDays	70.00	1.00
tblConstructionPhase	NumDays	70.00	1.00
tblConstructionPhase	NumDays	70.00	31.00
tblConstructionPhase	NumDays	70.00	5.00
tblConstructionPhase	NumDays	70.00	3.00
tblConstructionPhase	NumDays	110.00	14.00
tblConstructionPhase	NumDays	110.00	30.00
tblConstructionPhase	NumDays	110.00	31.00
tblConstructionPhase	NumDays	75.00	8.00
tblGrading	MaterialExported	0.00	25,000.00
tblLandUse	LandUseSquareFeet	1,247,120.00	1,227,123.00
tblLandUse	LandUseSquareFeet	706,543.20	706,467.00
tblLandUse	LandUseSquareFeet	292,723.20	292,958.00
tblLandUse	LandUseSquareFeet	275,299.20	275,315.00
tblLandUse	LotAcreage	28.63	28.15
tblOffRoadEquipment	HorsePower	231.00	110.00
tblOffRoadEquipment	HorsePower	231.00	93.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	158.00	300.00

tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	130.00	173.00
tblOffRoadEquipment	HorsePower	80.00	110.00
tblOffRoadEquipment	HorsePower	247.00	196.00
tblOffRoadEquipment	HorsePower	367.00	240.00
tblOffRoadEquipment	HorsePower	367.00	270.00
tblOffRoadEquipment	HorsePower	212.00	257.00
tblOffRoadEquipment	HorsePower	85.00	325.00
tblOffRoadEquipment	HorsePower	85.00	325.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	100.00	238.00
tblOffRoadEquipment	HorsePower	97.00	260.00
tblOffRoadEquipment	HorsePower	97.00	127.00
tblOffRoadEquipment	HorsePower	97.00	230.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	HorsePower	97.00	260.00
tblOffRoadEquipment	HorsePower	97.00	230.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	1,172.29	1,153.49
tblTripsAndVMT	HaulingTripLength	20.00	14.00
tblTripsAndVMT	HaulingTripLength	20.00	105.00
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	HaulingTripNumber	3.00	4.00
tblTripsAndVMT	HaulingTripNumber	21.00	22.00
tblTripsAndVMT	HaulingTripNumber	3,125.00	3,572.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	443.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	120.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	1,135.00	60.00
tblTripsAndVMT	WorkerTripNumber	8.00	36.00

tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	227.00	12.00
tblTripsAndVMT	WorkerTripNumber	3.00	6.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	28.00	36.00
tblTripsAndVMT	WorkerTripNumber	13.00	32.00
tblWater	IndoorWaterUseRate	288,396,500.00	283,771,500.00

2.0 Emissions Summary

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					
2020	8.9396	118.4767	55.1163	0.1792	21.8892	3.8516	25.7407	7.9764	3.5453	11.5218	0.0000	17,902.4533	17,902.4533	4.1189	0.0000	18,005.4266
2021	302.5912	109.6916	52.4186	0.1785	23.8141	3.5458	27.3599	8.4489	3.2636	11.7125	0.0000	17,833.4154	17,833.4154	4.1082	0.0000	17,936.1214
Maximum	**302.5912**	**118.4767**	**55.1163**	**0.1792**	**23.8141**	**3.8516**	**27.3599**	**8.4489**	**3.5453**	**11.7125**	**0.0000**	**17,902.4533**	**17,902.4533**	**4.1189**	**0.0000**	**18,005.4266**

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					
2020	8.9396	118.4767	55.1163	0.1792	10.2559	3.8516	14.1074	3.6542	3.5453	7.1995	0.0000	17,902.4533	17,902.4533	4.1189	0.0000	18,005.4266
2021	302.5912	109.6916	52.4186	0.1785	12.0076	3.5458	15.5533	4.0841	3.2636	7.3477	0.0000	17,833.4154	17,833.4154	4.1082	0.0000	17,936.1214
Maximum	**302.5912**	**118.4767**	**55.1163**	**0.1792**	**12.0076**	**3.8516**	**15.5533**	**4.0841**	**3.5453**	**7.3477**	**0.0000**	**17,902.4533**	**17,902.4533**	**4.1189**	**0.0000**	**18,005.4266**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**51.29**	**0.00**	**44.14**	**52.89**	**0.00**	**37.39**	**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	Building Demolition	Demolition	10/5/2020	10/16/2020	5	10	
2	Building Demo Haul	Demolition	10/19/2020	10/19/2020	5	1	
3	Building Demo Reprocessing	Demolition	10/19/2020	10/19/2020	5	1	
4	Asphalt Demolition	Demolition	10/19/2020	11/30/2020	5	31	
5	Asphalt Demo Reprocessing	Demolition	11/24/2020	11/30/2020	5	5	
6	Asphalt Demo Haul	Demolition	11/25/2020	11/27/2020	5	3	
7	Rough Grading	Grading	12/1/2020	1/11/2021	5	30	
8	Rough Grading Soil Haul	Grading	12/1/2020	1/12/2021	5	31	

9	Utility Trenching	Trenching	1/12/2021	3/12/2021	5	44	
10	Building Construction	Building Construction	1/12/2021	12/21/2021	5	246	
11	Fine Grading	Grading	3/15/2021	4/1/2021	5	14	
12	Finishing/Landscaping	Trenching	8/2/2021	10/25/2021	5	61	
13	Paving	Paving	9/1/2021	9/10/2021	5	8	
14	Architectural Coating	Architectural Coating	9/13/2021	11/12/2021	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 29.26

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,170,685; Non-Residential Outdoor: 723,562; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition	Excavators	2	8.00	300	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Building Demolition	Tractors/Loaders/Backhoes	2	8.00	260	0.37
Building Demo Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demo Haul	Excavators	1	8.00	300	0.38
Building Demo Haul	Rubber Tired Dozers	0	8.00	247	0.40
Building Demo Reprocessing	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demo Reprocessing	Crushing/Proc. Equipment	1	8.00	325	0.78
Building Demo Reprocessing	Excavators	0	8.00	158	0.38
Building Demo Reprocessing	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Excavators	2	8.00	300	0.38

Asphalt Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Tractors/Loaders/Backhoes	2	8.00	260	0.37
Asphalt Demo Reprocessing	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demo Reprocessing	Crushing/Proc. Equipment	1	8.00	325	0.78
Asphalt Demo Reprocessing	Excavators	0	8.00	158	0.38
Asphalt Demo Reprocessing	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demo Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demo Haul	Excavators	0	8.00	158	0.38
Asphalt Demo Haul	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading	Crawler Tractors	1	8.00	257	0.43
Rough Grading	Excavators	0	8.00	158	0.38
Rough Grading	Graders	2	8.00	238	0.41
Rough Grading	Rubber Tired Dozers	2	8.00	196	0.40
Rough Grading	Scrapers	6	8.00	270	0.48
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Rough Grading Soil Haul	Excavators	1	8.00	300	0.38
Rough Grading Soil Haul	Graders	0	8.00	187	0.41
Rough Grading Soil Haul	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading Soil Haul	Scrapers	0	8.00	367	0.48
Rough Grading Soil Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Utility Trenching	Excavators	2	8.00	300	0.38
Utility Trenching	Tractors/Loaders/Backhoes	2	8.00	230	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	93	0.37
Building Construction	Cranes	1	8.00	110	0.29
Building Construction	Cranes	2	8.00	93	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74

Building Construction	Rough Terrain Forklifts	2	8.00	238	0.40
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Fine Grading	Excavators	0	8.00	158	0.38
Fine Grading	Graders	2	8.00	238	0.41
Fine Grading	Rubber Tired Dozers	0	8.00	247	0.40
Fine Grading	Scrapers	1	8.00	240	0.48
Fine Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	127	0.37
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	230	0.37
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	93	0.37
Paving	Graders	1	8.00	238	0.41
Paving	Pavers	1	8.00	173	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	1	8.00	110	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Demolition	4	20.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demo Haul	1	6.00	0.00	4.00	14.70	6.90	14.00	LD_Mix	HDT_Mix	HHDT
Building Demo Reprocessing	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	4	20.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demo Reprocessing	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demo Haul	0	6.00	0.00	22.00	14.70	6.90	105.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	11	36.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Rough Grading Soil Haul	1	3.00	0.00	3,572.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	5	32.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	60.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	3	36.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	3	20.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	20.00	120.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building Demolition - 2020

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	1.2741	13.3787	9.0385	0.0360		0.4561	0.4561		0.4196	0.4196		3,480.0880	3,480.0880	1.1255		3,508.2263
Total	**1.2741**	**13.3787**	**9.0385**	**0.0360**		**0.4561**	**0.4561**		**0.4196**	**0.4196**		**3,480.0880**	**3,480.0880**	**1.1255**		**3,508.2263**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0243	0.8442	0.1645	2.1700e-003	0.0512	3.8800e-003	0.0551	0.0148	3.7200e-003	0.0185		228.8811	228.8811	0.0149		229.2528
Worker	0.1092	0.0701	0.8995	2.2700e-003	0.2236	1.4600e-003	0.2250	0.0593	1.3500e-003	0.0606		226.0168	226.0168	6.9000e-003		226.1893
Total	**0.1335**	**0.9143**	**1.0640**	**4.4400e-003**	**0.2748**	**5.3400e-003**	**0.2801**	**0.0740**	**5.0700e-003**	**0.0791**		**454.8979**	**454.8979**	**0.0218**		**455.4421**

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	1.2741	13.3787	9.0385	0.0360		0.4561	0.4561		0.4196	0.4196	0.0000	3,480.0880	3,480.0880	1.1255		3,508.2263
Total	**1.2741**	**13.3787**	**9.0385**	**0.0360**		**0.4561**	**0.4561**		**0.4196**	**0.4196**	**0.0000**	**3,480.0880**	**3,480.0880**	**1.1255**		**3,508.2263**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0243	0.8442	0.1645	2.1700e-003	0.0480	3.8800e-003	0.0518	0.0140	3.7200e-003	0.0177		228.8811	228.8811	0.0149		229.2528
Worker	0.1092	0.0701	0.8995	2.2700e-003	0.2061	1.4600e-003	0.2075	0.0550	1.3500e-003	0.0563		226.0168	226.0168	6.9000e-003		226.1893
Total	**0.1335**	**0.9143**	**1.0640**	**4.4400e-003**	**0.2540**	**5.3400e-003**	**0.2594**	**0.0689**	**5.0700e-003**	**0.0740**		**454.8979**	**454.8979**	**0.0218**		**455.4421**

3.3 Building Demo Haul - 2020

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					0.5992	0.0000	0.5992	0.0907	0.0000	0.0907			0.0000			0.0000
Off-Road	0.3084	3.1607	2.2149	9.7700e-003		0.1041	0.1041		0.0958	0.0958		945.5837	945.5837	0.3058		953.2292
Total	**0.3084**	**3.1607**	**2.2149**	**9.7700e-003**	**0.5992**	**0.1041**	**0.7033**	**0.0907**	**0.0958**	**0.1865**		**945.5837**	**945.5837**	**0.3058**		**953.2292**

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	0.0200	0.8249	0.1142	2.3900e-003	0.0490	2.1000e-003	0.0511	0.0134	2.0100e-003	0.0155		253.3031	253.3031	0.0161		253.7046
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0328	0.0210	0.2698	6.8000e-004	0.0671	4.4000e-004	0.0675	0.0178	4.0000e-004	0.0182		67.8051	67.8051	2.0700e-003		67.8568
Total	**0.0527**	**0.8459**	**0.3841**	**3.0700e-003**	**0.1161**	**2.5400e-003**	**0.1186**	**0.0312**	**2.4100e-003**	**0.0336**		**321.1081**	**321.1081**	**0.0181**		**321.5614**

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					0.2562	0.0000	0.2562	0.0388	0.0000	0.0388			0.0000			0.0000
Off-Road	0.3084	3.1607	2.2149	9.7700e-003		0.1041	0.1041		0.0958	0.0958	0.0000	945.5837	945.5837	0.3058		953.2292
Total	**0.3084**	**3.1607**	**2.2149**	**9.7700e-003**	**0.2562**	**0.1041**	**0.3603**	**0.0388**	**0.0958**	**0.1346**	**0.0000**	**945.5837**	**945.5837**	**0.3058**		**953.2292**

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	0.0200	0.8249	0.1142	2.3900e-003	0.0457	2.1000e-003	0.0478	0.0126	2.0100e-003	0.0146		253.3031	253.3031	0.0161		253.7046
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0328	0.0210	0.2698	6.8000e-004	0.0618	4.4000e-004	0.0623	0.0165	4.0000e-004	0.0169		67.8051	67.8051	2.0700e-003		67.8568
Total	**0.0527**	**0.8459**	**0.3841**	**3.0700e-003**	**0.1075**	**2.5400e-003**	**0.1101**	**0.0291**	**2.4100e-003**	**0.0315**		**321.1081**	**321.1081**	**0.0181**		**321.5614**

3.4 Building Demo Reprocessing - 2020

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	1.2563	8.0433	4.8197	0.0224		0.2817	0.2817		0.2817	0.2817		2,540.8504	2,540.8504	0.1118		2,543.6448
Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**		**0.2817**	**0.2817**		**0.2817**	**0.2817**		**2,540.8504**	**2,540.8504**	**0.1118**		**2,543.6448**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0164	0.0105	0.1349	3.4000e-004	0.0335	2.2000e-004	0.0338	8.8900e-003	2.0000e-004	9.1000e-003		33.9025	33.9025	1.0300e-003		33.9284
Total	**0.0164**	**0.0105**	**0.1349**	**3.4000e-004**	**0.0335**	**2.2000e-004**	**0.0338**	**8.8900e-003**	**2.0000e-004**	**9.1000e-003**		**33.9025**	**33.9025**	**1.0300e-003**		**33.9284**

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	1.2563	8.0433	4.8197	0.0224		0.2817	0.2817		0.2817	0.2817	0.0000	2,540.8504	2,540.8504	0.1118		2,543.6448
Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**		**0.2817**	**0.2817**		**0.2817**	**0.2817**	**0.0000**	**2,540.8504**	**2,540.8504**	**0.1118**		**2,543.6448**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0164	0.0105	0.1349	3.4000e-004	0.0309	2.2000e-004	0.0311	8.2500e-003	2.0000e-004	8.4500e-003		33.9025	33.9025	1.0300e-003		33.9284
Total	**0.0164**	**0.0105**	**0.1349**	**3.4000e-004**	**0.0309**	**2.2000e-004**	**0.0311**	**8.2500e-003**	**2.0000e-004**	**8.4500e-003**		**33.9025**	**33.9025**	**1.0300e-003**		**33.9284**

3.5 Asphalt Demolition - 2020

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	1.2741	13.3787	9.0385	0.0360		0.4561	0.4561		0.4196	0.4196		3,480.0880	3,480.0880	1.1255		3,508.2263
Total	**1.2741**	**13.3787**	**9.0385**	**0.0360**		**0.4561**	**0.4561**		**0.4196**	**0.4196**		**3,480.0880**	**3,480.0880**	**1.1255**		**3,508.2263**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0304	1.0553	0.2057	2.7100e-003	0.0641	4.8600e-003	0.0689	0.0184	4.6500e-003	0.0231		286.1014	286.1014	0.0186		286.5660
Worker	0.1092	0.0701	0.8995	2.2700e-003	0.2236	1.4600e-003	0.2250	0.0593	1.3500e-003	0.0606		226.0168	226.0168	6.9000e-003		226.1893
Total	**0.1395**	**1.1254**	**1.1051**	**4.9800e-003**	**0.2876**	**6.3200e-003**	**0.2939**	**0.0777**	**6.0000e-003**	**0.0837**		**512.1182**	**512.1182**	**0.0255**		**512.7553**

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	1.2741	13.3787	9.0385	0.0360		0.4561	0.4561		0.4196	0.4196	0.0000	3,480.0880	3,480.0880	1.1255		3,508.2263
Total	**1.2741**	**13.3787**	**9.0385**	**0.0360**		**0.4561**	**0.4561**		**0.4196**	**0.4196**	**0.0000**	**3,480.0880**	**3,480.0880**	**1.1255**		**3,508.2263**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0304	1.0553	0.2057	2.7100e-003	0.0599	4.8600e-003	0.0648	0.0174	4.6500e-003	0.0221		286.1014	286.1014	0.0186		286.5660
Worker	0.1092	0.0701	0.8995	2.2700e-003	0.2061	1.4600e-003	0.2075	0.0550	1.3500e-003	0.0563		226.0168	226.0168	6.9000e-003		226.1893
Total	**0.1395**	**1.1254**	**1.1051**	**4.9800e-003**	**0.2660**	**6.3200e-003**	**0.2723**	**0.0724**	**6.0000e-003**	**0.0784**		**512.1182**	**512.1182**	**0.0255**		**512.7553**

3.6 Asphalt Demo Reprocessing - 2020

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	1.2563	8.0433	4.8197	0.0224		0.2817	0.2817		0.2817	0.2817		2,540.8504	2,540.8504	0.1118		2,543.6448
Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**		**0.2817**	**0.2817**		**0.2817**	**0.2817**		**2,540.8504**	**2,540.8504**	**0.1118**		**2,543.6448**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0164	0.0105	0.1349	3.4000e-004	0.0335	2.2000e-004	0.0338	8.8900e-003	2.0000e-004	9.1000e-003		33.9025	33.9025	1.0300e-003		33.9284
Total	**0.0164**	**0.0105**	**0.1349**	**3.4000e-004**	**0.0335**	**2.2000e-004**	**0.0338**	**8.8900e-003**	**2.0000e-004**	**9.1000e-003**		**33.9025**	**33.9025**	**1.0300e-003**		**33.9284**

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	1.2563	8.0433	4.8197	0.0224		0.2817	0.2817		0.2817	0.2817	0.0000	2,540.8504	2,540.8504	0.1118		2,543.6448
Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**		**0.2817**	**0.2817**		**0.2817**	**0.2817**	**0.0000**	**2,540.8504**	**2,540.8504**	**0.1118**		**2,543.6448**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0164	0.0105	0.1349	3.4000e-004	0.0309	2.2000e-004	0.0311	8.2500e-003	2.0000e-004	8.4500e-003		33.9025	33.9025	1.0300e-003		33.9284
Total	**0.0164**	**0.0105**	**0.1349**	**3.4000e-004**	**0.0309**	**2.2000e-004**	**0.0311**	**8.2500e-003**	**2.0000e-004**	**8.4500e-003**		**33.9025**	**33.9025**	**1.0300e-003**		**33.9284**

3.7 Asphalt Demo Haul - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5051	0.0000	1.5051	0.2279	0.0000	0.2279			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.5051**	**0.0000**	**1.5051**	**0.2279**	**0.0000**	**0.2279**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.1724	5.9738	1.0764	0.0253	0.6731	0.0271	0.7002	0.1845	0.0259	0.2104		2,682.7202	2,682.7202	0.0827		2,684.7867
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0328	0.0210	0.2698	6.8000e-004	0.0671	4.4000e-004	0.0675	0.0178	4.0000e-004	0.0182		67.8051	67.8051	2.0700e-003		67.8568
Total	**0.2051**	**5.9948**	**1.3462**	**0.0259**	**0.7402**	**0.0276**	**0.7677**	**0.2023**	**0.0263**	**0.2286**		**2,750.5253**	**2,750.5253**	**0.0847**		**2,752.6435**

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					0.6434	0.0000	0.6434	0.0974	0.0000	0.0974			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.6434**	**0.0000**	**0.6434**	**0.0974**	**0.0000**	**0.0974**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.1724	5.9738	1.0764	0.0253	0.6273	0.0271	0.6544	0.1732	0.0259	0.1992		2,682.7202	2,682.7202	0.0827		2,684.7867
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0328	0.0210	0.2698	6.8000e-004	0.0618	4.4000e-004	0.0623	0.0165	4.0000e-004	0.0169		67.8051	67.8051	2.0700e-003		67.8568
Total	**0.2051**	**5.9948**	**1.3462**	**0.0259**	**0.6891**	**0.0276**	**0.7167**	**0.1897**	**0.0263**	**0.2161**		**2,750.5253**	**2,750.5253**	**0.0847**		**2,752.6435**

3.8 Rough Grading - 2020

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					19.9979	0.0000	19.9979	7.4793	0.0000	7.4793			0.0000			0.0000
Off-Road	7.8946	93.0209	48.1678	0.1069		3.6934	3.6934		3.3979	3.3979		10,350.9536	10,350.9536	3.3477		10,434.6463
Total	**7.8946**	**93.0209**	**48.1678**	**0.1069**	**19.9979**	**3.6934**	**23.6913**	**7.4793**	**3.3979**	**10.8772**		**10,350.9536**	**10,350.9536**	**3.3477**		**10,434.6463**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0425	1.4774	0.2879	3.8000e-003	0.0897	6.8000e-003	0.0965	0.0258	6.5000e-003	0.0323		400.5419	400.5419	0.0260		401.1924
Worker	0.1965	0.1261	1.6190	4.0900e-003	0.4024	2.6400e-003	0.4050	0.1067	2.4300e-003	0.1092		406.8303	406.8303	0.0124		407.1408
Total	**0.2390**	**1.6035**	**1.9070**	**7.8900e-003**	**0.4921**	**9.4400e-003**	**0.5015**	**0.1325**	**8.9300e-003**	**0.1415**		**807.3722**	**807.3722**	**0.0384**		**808.3331**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.5491	0.0000	8.5491	3.1974	0.0000	3.1974			0.0000			0.0000
Off-Road	7.8946	93.0209	48.1678	0.1069		3.6934	3.6934		3.3979	3.3979	0.0000	10,350.9536	10,350.9536	3.3477		10,434.6463
Total	**7.8946**	**93.0209**	**48.1678**	**0.1069**	**8.5491**	**3.6934**	**12.2425**	**3.1974**	**3.3979**	**6.5953**	**0.0000**	**10,350.9536**	**10,350.9536**	**3.3477**		**10,434.6463**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0425	1.4774	0.2879	3.8000e-003	0.0839	6.8000e-003	0.0907	0.0244	6.5000e-003	0.0309		400.5419	400.5419	0.0260		401.1924
Worker	0.1965	0.1261	1.6190	4.0900e-003	0.3709	2.6400e-003	0.3736	0.0990	2.4300e-003	0.1014		406.8303	406.8303	0.0124		407.1408
Total	**0.2390**	**1.6035**	**1.9070**	**7.8900e-003**	**0.4548**	**9.4400e-003**	**0.4643**	**0.1234**	**8.9300e-003**	**0.1323**		**807.3722**	**807.3722**	**0.0384**		**808.3331**

3.8 Rough Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.9979	0.0000	19.9979	7.4793	0.0000	7.4793			0.0000			0.0000
Off-Road	7.4685	86.1223	45.7719	0.1069		3.4122	3.4122		3.1392	3.1392		10,350.8316	10,350.8316	3.3477		10,434.5234
Total	**7.4685**	**86.1223**	**45.7719**	**0.1069**	**19.9979**	**3.4122**	**23.4101**	**7.4793**	**3.1392**	**10.6185**		**10,350.8316**	**10,350.8316**	**3.3477**		**10,434.5234**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0362	1.3501	0.2541	3.7800e-003	0.0897	2.3100e-003	0.0920	0.0258	2.2100e-003	0.0280		398.4250	398.4250	0.0252		399.0545
Worker	0.1829	0.1131	1.4903	3.9600e-003	0.4024	2.5700e-003	0.4050	0.1067	2.3700e-003	0.1091		393.8690	393.8690	0.0112		394.1492
Total	**0.2191**	**1.4632**	**1.7444**	**7.7400e-003**	**0.4921**	**4.8800e-003**	**0.4970**	**0.1325**	**4.5800e-003**	**0.1371**		**792.2940**	**792.2940**	**0.0364**		**793.2037**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.5491	0.0000	8.5491	3.1974	0.0000	3.1974			0.0000			0.0000
Off-Road	7.4685	86.1223	45.7719	0.1069		3.4122	3.4122		3.1392	3.1392	0.0000	10,350.8316	10,350.8316	3.3477		10,434.5234
Total	**7.4685**	**86.1223**	**45.7719**	**0.1069**	**8.5491**	**3.4122**	**11.9613**	**3.1974**	**3.1392**	**6.3366**	**0.0000**	**10,350.8316**	**10,350.8316**	**3.3477**		**10,434.5234**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0362	1.3501	0.2541	3.7800e-003	0.0839	2.3100e-003	0.0862	0.0244	2.2100e-003	0.0266		398.4250	398.4250	0.0252		399.0545
Worker	0.1829	0.1131	1.4903	3.9600e-003	0.3709	2.5700e-003	0.3735	0.0990	2.3700e-003	0.1014		393.8690	393.8690	0.0112		394.1492
Total	**0.2191**	**1.4632**	**1.7444**	**7.7400e-003**	**0.4548**	**4.8800e-003**	**0.4597**	**0.1234**	**4.5800e-003**	**0.1280**		**792.2940**	**792.2940**	**0.0364**		**793.2037**

3.9 Rough Grading Soil Haul - 2020

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					0.0912	0.0000	0.0912	0.0138	0.0000	0.0138			0.0000			0.0000
Off-Road	0.3084	3.1607	2.2149	9.7700e-003		0.1041	0.1041		0.0958	0.0958		945.5837	945.5837	0.3058		953.2292
Total	**0.3084**	**3.1607**	**2.2149**	**9.7700e-003**	**0.0912**	**0.1041**	**0.1953**	**0.0138**	**0.0958**	**0.1096**		**945.5837**	**945.5837**	**0.3058**		**953.2292**

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	0.4813	20.6811	2.6917	0.0543	1.2744	0.0444	1.3188	0.3419	0.0425	0.3844		5,764.6413	5,764.6413	0.4259		5,775.2896
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0164	0.0105	0.1349	3.4000e-004	0.0335	2.2000e-004	0.0338	8.8900e-003	2.0000e-004	9.1000e-003		33.9025	33.9025	1.0300e-003		33.9284
Total	**0.4977**	**20.6917**	**2.8266**	**0.0547**	**1.3080**	**0.0446**	**1.3526**	**0.3508**	**0.0427**	**0.3935**		**5,798.5438**	**5,798.5438**	**0.4270**		**5,809.2180**

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					0.0390	0.0000	0.0390	5.9000e-003	0.0000	5.9000e-003			0.0000			0.0000
Off-Road	0.3084	3.1607	2.2149	9.7700e-003		0.1041	0.1041		0.0958	0.0958	0.0000	945.5837	945.5837	0.3058		953.2292
Total	**0.3084**	**3.1607**	**2.2149**	**9.7700e-003**	**0.0390**	**0.1041**	**0.1431**	**5.9000e-003**	**0.0958**	**0.1017**	**0.0000**	**945.5837**	**945.5837**	**0.3058**		**953.2292**

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	0.4813	20.6811	2.6917	0.0543	1.1820	0.0444	1.2264	0.3192	0.0425	0.3617		5,764.6413	5,764.6413	0.4259		5,775.2896
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0164	0.0105	0.1349	3.4000e-004	0.0309	2.2000e-004	0.0311	8.2500e-003	2.0000e-004	8.4500e-003		33.9025	33.9025	1.0300e-003		33.9284
Total	**0.4977**	**20.6917**	**2.8266**	**0.0547**	**1.2130**	**0.0446**	**1.2576**	**0.3275**	**0.0427**	**0.3702**		**5,798.5438**	**5,798.5438**	**0.4270**		**5,809.2180**

3.9 Rough Grading Soil Haul - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0912	0.0000	0.0912	0.0138	0.0000	0.0138			0.0000			0.0000
Off-Road	0.2874	2.6776	2.1871	9.7600e-003		0.0896	0.0896		0.0825	0.0825		944.2165	944.2165	0.3054		951.8510
Total	**0.2874**	**2.6776**	**2.1871**	**9.7600e-003**	**0.0912**	**0.0896**	**0.1808**	**0.0138**	**0.0825**	**0.0963**		**944.2165**	**944.2165**	**0.3054**		**951.8510**

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	0.4582	19.4191	2.5910	0.0538	3.1994	0.0389	3.2383	0.8144	0.0372	0.8516		5,713.2508	5,713.2508	0.4179		5,723.6975
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0152	9.4200e-003	0.1242	3.3000e-004	0.0335	2.1000e-004	0.0338	8.8900e-003	2.0000e-004	9.0900e-003		32.8224	32.8224	9.3000e-004		32.8458
Total	**0.4734**	**19.4285**	**2.7152**	**0.0542**	**3.2329**	**0.0391**	**3.2720**	**0.8233**	**0.0374**	**0.8607**		**5,746.0732**	**5,746.0732**	**0.4188**		**5,756.5433**

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					0.0390	0.0000	0.0390	5.9000e-003	0.0000	5.9000e-003			0.0000			0.0000
Off-Road	0.2874	2.6776	2.1871	9.7600e-003		0.0896	0.0896		0.0825	0.0825	0.0000	944.2165	944.2165	0.3054		951.8510
Total	**0.2874**	**2.6776**	**2.1871**	**9.7600e-003**	**0.0390**	**0.0896**	**0.1286**	**5.9000e-003**	**0.0825**	**0.0884**	**0.0000**	**944.2165**	**944.2165**	**0.3054**		**951.8510**

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	0.4582	19.4191	2.5910	0.0538	2.9337	0.0389	2.9726	0.7492	0.0372	0.7864		5,713.2508	5,713.2508	0.4179		5,723.6975
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0152	9.4200e-003	0.1242	3.3000e-004	0.0309	2.1000e-004	0.0311	8.2500e-003	2.0000e-004	8.4500e-003		32.8224	32.8224	9.3000e-004		32.8458
Total	**0.4734**	**19.4285**	**2.7152**	**0.0542**	**2.9646**	**0.0391**	**3.0037**	**0.7574**	**0.0374**	**0.7948**		**5,746.0732**	**5,746.0732**	**0.4188**		**5,756.5433**

3.10 Utility Trenching - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3831	14.2849	10.1015	0.0371		0.5265	0.5265		0.4844	0.4844		3,589.4934	3,589.4934	1.1609		3,618.5163
Total	**1.3831**	**14.2849**	**10.1015**	**0.0371**		**0.5265**	**0.5265**		**0.4844**	**0.4844**		**3,589.4934**	**3,589.4934**	**1.1609**		**3,618.5163**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0259	0.9644	0.1815	2.7000e-003	0.0641	1.6500e-003	0.0657	0.0184	1.5800e-003	0.0200		284.5893	284.5893	0.0180		285.0389
Worker	0.1626	0.1005	1.3248	3.5200e-003	0.3577	2.2900e-003	0.3600	0.0949	2.1100e-003	0.0970		350.1058	350.1058	9.9600e-003		350.3549
Total	**0.1885**	**1.0649**	**1.5062**	**6.2200e-003**	**0.4217**	**3.9400e-003**	**0.4257**	**0.1133**	**3.6900e-003**	**0.1170**		**634.6951**	**634.6951**	**0.0279**		**635.3938**

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	1.3831	14.2849	10.1015	0.0371		0.5265	0.5265		0.4844	0.4844	0.0000	3,589.4934	3,589.4934	1.1609		3,618.5163
Total	**1.3831**	**14.2849**	**10.1015**	**0.0371**		**0.5265**	**0.5265**		**0.4844**	**0.4844**	**0.0000**	**3,589.4934**	**3,589.4934**	**1.1609**		**3,618.5163**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0259	0.9644	0.1815	2.7000e-003	0.0599	1.6500e-003	0.0616	0.0174	1.5800e-003	0.0190		284.5893	284.5893	0.0180		285.0389
Worker	0.1626	0.1005	1.3248	3.5200e-003	0.3297	2.2900e-003	0.3320	0.0880	2.1100e-003	0.0901		350.1058	350.1058	9.9600e-003		350.3549
Total	**0.1885**	**1.0649**	**1.5062**	**6.2200e-003**	**0.3896**	**3.9400e-003**	**0.3936**	**0.1054**	**3.6900e-003**	**0.1091**		**634.6951**	**634.6951**	**0.0279**		**635.3938**

3.11 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3723	14.0890	9.4580	0.0237		0.7267	0.7267		0.6685	0.6685		2,298.2397	2,298.2397	0.7433		2,316.8221
Total	**1.3723**	**14.0890**	**9.4580**	**0.0237**		**0.7267**	**0.7267**		**0.6685**	**0.6685**		**2,298.2397**	**2,298.2397**	**0.7433**		**2,316.8221**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0311	1.1573	0.2178	3.2400e-003	0.0769	1.9800e-003	0.0788	0.0221	1.9000e-003	0.0240		341.5072	341.5072	0.0216		342.0467
Worker	0.3049	0.1884	2.4839	6.5900e-003	0.6707	4.2900e-003	0.6750	0.1779	3.9500e-003	0.1818		656.4483	656.4483	0.0187		656.9154
Total	**0.3359**	**1.3457**	**2.7017**	**9.8300e-003**	**0.7475**	**6.2700e-003**	**0.7538**	**0.2000**	**5.8500e-003**	**0.2058**		**997.9555**	**997.9555**	**0.0403**		**998.9621**

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	1.3723	14.0890	9.4580	0.0237		0.7267	0.7267		0.6685	0.6685	0.0000	2,298.2397	2,298.2397	0.7433		2,316.8221
Total	**1.3723**	**14.0890**	**9.4580**	**0.0237**		**0.7267**	**0.7267**		**0.6685**	**0.6685**	**0.0000**	**2,298.2397**	**2,298.2397**	**0.7433**		**2,316.8221**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0311	1.1573	0.2178	3.2400e-003	0.0719	1.9800e-003	0.0739	0.0209	1.9000e-003	0.0228		341.5072	341.5072	0.0216		342.0467
Worker	0.3049	0.1884	2.4839	6.5900e-003	0.6182	4.2900e-003	0.6225	0.1650	3.9500e-003	0.1689		656.4483	656.4483	0.0187		656.9154
Total	**0.3359**	**1.3457**	**2.7017**	**9.8300e-003**	**0.6901**	**6.2700e-003**	**0.6964**	**0.1859**	**5.8500e-003**	**0.1918**		**997.9555**	**997.9555**	**0.0403**		**998.9621**

3.12 Fine Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1210	0.0000	2.1210	0.2290	0.0000	0.2290			0.0000			0.0000
Off-Road	1.9467	23.9536	8.3256	0.0267		0.8620	0.8620		0.7931	0.7931		2,586.5383	2,586.5383	0.8365		2,607.4517
Total	**1.9467**	**23.9536**	**8.3256**	**0.0267**	**2.1210**	**0.8620**	**2.9830**	**0.2290**	**0.7931**	**1.0221**		**2,586.5383**	**2,586.5383**	**0.8365**		**2,607.4517**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0207	0.7715	0.1452	2.1600e-003	0.0512	1.3200e-003	0.0526	0.0148	1.2700e-003	0.0160		227.6715	227.6715	0.0144		228.0311
Worker	0.1829	0.1131	1.4903	3.9600e-003	0.4024	2.5700e-003	0.4050	0.1067	2.3700e-003	0.1091		393.8690	393.8690	0.0112		394.1492
Total	**0.2036**	**0.8846**	**1.6355**	**6.1200e-003**	**0.4536**	**3.8900e-003**	**0.4575**	**0.1215**	**3.6400e-003**	**0.1251**		**621.5404**	**621.5404**	**0.0256**		**622.1804**

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					0.9067	0.0000	0.9067	0.0979	0.0000	0.0979			0.0000			0.0000
Off-Road	1.9467	23.9536	8.3256	0.0267		0.8620	0.8620		0.7931	0.7931	0.0000	2,586.5382	2,586.5382	0.8365		2,607.4517
Total	**1.9467**	**23.9536**	**8.3256**	**0.0267**	**0.9067**	**0.8620**	**1.7688**	**0.0979**	**0.7931**	**0.8910**	**0.0000**	**2,586.5382**	**2,586.5382**	**0.8365**		**2,607.4517**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0207	0.7715	0.1452	2.1600e-003	0.0480	1.3200e-003	0.0493	0.0140	1.2700e-003	0.0152		227.6715	227.6715	0.0144		228.0311
Worker	0.1829	0.1131	1.4903	3.9600e-003	0.3709	2.5700e-003	0.3735	0.0990	2.3700e-003	0.1014		393.8690	393.8690	0.0112		394.1492
Total	**0.2036**	**0.8846**	**1.6355**	**6.1200e-003**	**0.4189**	**3.8900e-003**	**0.4228**	**0.1129**	**3.6400e-003**	**0.1166**		**621.5404**	**621.5404**	**0.0256**		**622.1804**

3.13 Finishing/Landscaping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6771	7.0827	6.5087	0.0143		0.3135	0.3135		0.2884	0.2884		1,382.2459	1,382.2459	0.4471		1,393.4220
Total	**0.6771**	**7.0827**	**6.5087**	**0.0143**		**0.3135**	**0.3135**		**0.2884**	**0.2884**		**1,382.2459**	**1,382.2459**	**0.4471**		**1,393.4220**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0155	0.5786	0.1089	1.6200e-003	0.0384	9.9000e-004	0.0394	0.0111	9.5000e-004	0.0120		170.7536	170.7536	0.0108		171.0234
Worker	0.1016	0.0628	0.8280	2.2000e-003	0.2236	1.4300e-003	0.2250	0.0593	1.3200e-003	0.0606		218.8161	218.8161	6.2300e-003		218.9718
Total	**0.1172**	**0.6414**	**0.9369**	**3.8200e-003**	**0.2620**	**2.4200e-003**	**0.2644**	**0.0704**	**2.2700e-003**	**0.0726**		**389.5697**	**389.5697**	**0.0170**		**389.9952**

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	0.6771	7.0827	6.5087	0.0143		0.3135	0.3135		0.2884	0.2884	0.0000	1,382.2459	1,382.2459	0.4471		1,393.4220
Total	**0.6771**	**7.0827**	**6.5087**	**0.0143**		**0.3135**	**0.3135**		**0.2884**	**0.2884**	**0.0000**	**1,382.2459**	**1,382.2459**	**0.4471**		**1,393.4220**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0155	0.5786	0.1089	1.6200e-003	0.0360	9.9000e-004	0.0370	0.0105	9.5000e-004	0.0114		170.7536	170.7536	0.0108		171.0234
Worker	0.1016	0.0628	0.8280	2.2000e-003	0.2061	1.4300e-003	0.2075	0.0550	1.3200e-003	0.0563		218.8161	218.8161	6.2300e-003		218.9718
Total	**0.1172**	**0.6414**	**0.9369**	**3.8200e-003**	**0.2420**	**2.4200e-003**	**0.2445**	**0.0655**	**2.2700e-003**	**0.0677**		**389.5697**	**389.5697**	**0.0170**		**389.9952**

3.14 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1648	13.6396	8.7004	0.0183		0.5675	0.5675		0.5221	0.5221		1,771.6421	1,771.6421	0.5730		1,785.9667
Paving	7.3819					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**8.5466**	**13.6396**	**8.7004**	**0.0183**		**0.5675**	**0.5675**		**0.5221**	**0.5221**		**1,771.6421**	**1,771.6421**	**0.5730**		**1,785.9667**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3105	11.5725	2.1776	0.0324	0.7686	0.0198	0.7884	0.2213	0.0190	0.2403		3,415.0717	3,415.0717	0.2158		3,420.4671
Worker	0.1016	0.0628	0.8280	2.2000e-003	0.2236	1.4300e-003	0.2250	0.0593	1.3200e-003	0.0606		218.8161	218.8161	6.2300e-003		218.9718
Total	**0.4122**	**11.6353**	**3.0055**	**0.0346**	**0.9921**	**0.0213**	**1.0134**	**0.2806**	**0.0203**	**0.3009**		**3,633.8878**	**3,633.8878**	**0.2221**		**3,639.4389**

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	1.1648	13.6396	8.7004	0.0183		0.5675	0.5675		0.5221	0.5221	0.0000	1,771.6421	1,771.6421	0.5730		1,785.9667
Paving	7.3819					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**8.5466**	**13.6396**	**8.7004**	**0.0183**		**0.5675**	**0.5675**		**0.5221**	**0.5221**	**0.0000**	**1,771.6421**	**1,771.6421**	**0.5730**		**1,785.9667**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3105	11.5725	2.1776	0.0324	0.7193	0.0198	0.7391	0.2092	0.0190	0.2282		3,415.0717	3,415.0717	0.2158		3,420.4671
Worker	0.1016	0.0628	0.8280	2.2000e-003	0.2061	1.4300e-003	0.2075	0.0550	1.3200e-003	0.0563		218.8161	218.8161	6.2300e-003		218.9718
Total	**0.4122**	**11.6353**	**3.0055**	**0.0346**	**0.9254**	**0.0213**	**0.9466**	**0.2642**	**0.0203**	**0.2845**		**3,633.8878**	**3,633.8878**	**0.2221**		**3,639.4389**

3.15 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	299.8089					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**300.0278**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0610	0.0377	0.4968	1.3200e-003	0.1341	8.6000e-004	0.1350	0.0356	7.9000e-004	0.0364		131.2897	131.2897	3.7400e-003		131.3831
Total	**0.0610**	**0.0377**	**0.4968**	**1.3200e-003**	**0.1341**	**8.6000e-004**	**0.1350**	**0.0356**	**7.9000e-004**	**0.0364**		**131.2897**	**131.2897**	**3.7400e-003**		**131.3831**

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	299.8089					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**300.0278**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0610	0.0377	0.4968	1.3200e-003	0.1236	8.6000e-004	0.1245	0.0330	7.9000e-004	0.0338		131.2897	131.2897	3.7400e-003		131.3831
Total	**0.0610**	**0.0377**	**0.4968**	**1.3200e-003**	**0.1236**	**8.6000e-004**	**0.1245**	**0.0330**	**7.9000e-004**	**0.0338**		**131.2897**	**131.2897**	**3.7400e-003**		**131.3831**

Phase 1 Construction

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	200.00	1000sqft	4.59	200,000.00	0
Unrefrigerated Warehouse-No Rail	1,247.12	1000sqft	28.15	1,227,123.00	0
Other Asphalt Surfaces	16.22	Acre	16.22	706,467.00	0
Other Non-Asphalt Surfaces	6.72	Acre	6.72	292,958.00	0
Parking Lot	6.32	Acre	6.32	275,315.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2021
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions file in the AQ/GHG appendix for details.

Construction Phase - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment -

Off-road Equipment - Placeholder for haul trips only. No additional equipment assumed.

Off-road Equipment - Based on information provided. See the assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - Based on information provided. See the assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - See assumptions file in the AQ/GHG appendix for details.

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Off-road Equipment -

Off-road Equipment - See assumptions file in the AQ/GHG appendix for details.

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Off-road Equipment - Based on information provided. See the assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - See the assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - Based on information provided. See the assumptions file in the AQ/GHG appendix for details.

Trips and VMT - See assumptions file in the AQ/GHG appendix for details.

Demolition -

Grading -

Architectural Coating - See assumptions file in the AQ/GHG appendix for details.

Construction Off-road Equipment Mitigation - Based on SCAQMD Rules 403 and 1186.

Area Coating - See assumptions file

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	713,562.00	723,562.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,140,685.00	2,170,685.00
tblArchitecturalCoating	ConstArea_Parking	76,484.00	16,519.00
tblAreaCoating	Area_Nonresidential_Exterior	713560	723562

tblAreaCoating	Area_Nonresidential_Interior	2140680	2170685
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	75.00	45.00
tblConstructionPhase	NumDays	1,110.00	246.00
tblConstructionPhase	NumDays	70.00	10.00
tblConstructionPhase	NumDays	70.00	1.00
tblConstructionPhase	NumDays	70.00	1.00
tblConstructionPhase	NumDays	70.00	31.00
tblConstructionPhase	NumDays	70.00	5.00
tblConstructionPhase	NumDays	70.00	3.00
tblConstructionPhase	NumDays	110.00	14.00
tblConstructionPhase	NumDays	110.00	30.00
tblConstructionPhase	NumDays	110.00	31.00
tblConstructionPhase	NumDays	75.00	8.00
tblGrading	MaterialExported	0.00	25,000.00
tblLandUse	LandUseSquareFeet	1,247,120.00	1,227,123.00
tblLandUse	LandUseSquareFeet	706,543.20	706,467.00
tblLandUse	LandUseSquareFeet	292,723.20	292,958.00
tblLandUse	LandUseSquareFeet	275,299.20	275,315.00
tblLandUse	LotAcreage	28.63	28.15
tblOffRoadEquipment	HorsePower	231.00	110.00
tblOffRoadEquipment	HorsePower	231.00	93.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	158.00	300.00

tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	130.00	173.00
tblOffRoadEquipment	HorsePower	80.00	110.00
tblOffRoadEquipment	HorsePower	247.00	196.00
tblOffRoadEquipment	HorsePower	367.00	240.00
tblOffRoadEquipment	HorsePower	367.00	270.00
tblOffRoadEquipment	HorsePower	212.00	257.00
tblOffRoadEquipment	HorsePower	85.00	325.00
tblOffRoadEquipment	HorsePower	85.00	325.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	100.00	238.00
tblOffRoadEquipment	HorsePower	97.00	260.00
tblOffRoadEquipment	HorsePower	97.00	127.00
tblOffRoadEquipment	HorsePower	97.00	230.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	HorsePower	97.00	260.00
tblOffRoadEquipment	HorsePower	97.00	230.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	1,172.29	1,153.49
tblTripsAndVMT	HaulingTripLength	20.00	14.00
tblTripsAndVMT	HaulingTripLength	20.00	105.00
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	HaulingTripNumber	3.00	4.00
tblTripsAndVMT	HaulingTripNumber	21.00	22.00
tblTripsAndVMT	HaulingTripNumber	3,125.00	3,572.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	443.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	120.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	1,135.00	60.00
tblTripsAndVMT	WorkerTripNumber	8.00	36.00

tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	227.00	12.00
tblTripsAndVMT	WorkerTripNumber	3.00	6.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	28.00	36.00
tblTripsAndVMT	WorkerTripNumber	13.00	32.00
tblWater	IndoorWaterUseRate	288,396,500.00	283,771,500.00

2.0 Emissions Summary

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					
2020	8.9746	118.2654	55.4613	0.1762	21.8892	3.8528	25.7419	7.9764	3.5465	11.5229	0.0000	17,591.3588	17,591.3588	4.1642	0.0000	17,695.4631
2021	302.5950	109.4648	52.7568	0.1756	23.8141	3.5469	27.3609	8.4489	3.2647	11.7136	0.0000	17,524.8456	17,524.8456	4.1534	0.0000	17,628.6794
Maximum	**302.5950**	**118.2654**	**55.4613**	**0.1762**	**23.8141**	**3.8528**	**27.3609**	**8.4489**	**3.5465**	**11.7136**	**0.0000**	**17,591.3588**	**17,591.3588**	**4.1642**	**0.0000**	**17,695.4631**

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					
2020	8.9746	118.2654	55.4613	0.1762	10.2559	3.8528	14.1087	3.6542	3.5465	7.2007	0.0000	17,591.3588	17,591.3588	4.1642	0.0000	17,695.4631
2021	302.5950	109.4648	52.7568	0.1756	12.0076	3.5469	15.5544	4.0841	3.2647	7.3488	0.0000	17,524.8456	17,524.8456	4.1534	0.0000	17,628.6794
Maximum	**302.5950**	**118.2654**	**55.4613**	**0.1762**	**12.0076**	**3.8528**	**15.5544**	**4.0841**	**3.5465**	**7.3488**	**0.0000**	**17,591.3588**	**17,591.3588**	**4.1642**	**0.0000**	**17,695.4631**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**51.29**	**0.00**	**44.14**	**52.89**	**0.00**	**37.39**	**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	Building Demolition	Demolition	10/5/2020	10/16/2020	5	10	
2	Building Demo Haul	Demolition	10/19/2020	10/19/2020	5	1	
3	Building Demo Reprocessing	Demolition	10/19/2020	10/19/2020	5	1	
4	Asphalt Demolition	Demolition	10/19/2020	11/30/2020	5	31	
5	Asphalt Demo Reprocessing	Demolition	11/24/2020	11/30/2020	5	5	
6	Asphalt Demo Haul	Demolition	11/25/2020	11/27/2020	5	3	
7	Rough Grading	Grading	12/1/2020	1/11/2021	5	30	
8	Rough Grading Soil Haul	Grading	12/1/2020	1/12/2021	5	31	

9	Utility Trenching	Trenching	1/12/2021	3/12/2021	5	44	
10	Building Construction	Building Construction	1/12/2021	12/21/2021	5	246	
11	Fine Grading	Grading	3/15/2021	4/1/2021	5	14	
12	Finishing/Landscaping	Trenching	8/2/2021	10/25/2021	5	61	
13	Paving	Paving	9/1/2021	9/10/2021	5	8	
14	Architectural Coating	Architectural Coating	9/13/2021	11/12/2021	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 29.26

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,170,685; Non-Residential Outdoor: 723,562; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition	Excavators	2	8.00	300	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Building Demolition	Tractors/Loaders/Backhoes	2	8.00	260	0.37
Building Demo Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demo Haul	Excavators	1	8.00	300	0.38
Building Demo Haul	Rubber Tired Dozers	0	8.00	247	0.40
Building Demo Reprocessing	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demo Reprocessing	Crushing/Proc. Equipment	1	8.00	325	0.78
Building Demo Reprocessing	Excavators	0	8.00	158	0.38
Building Demo Reprocessing	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Excavators	2	8.00	300	0.38

Asphalt Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Tractors/Loaders/Backhoes	2	8.00	260	0.37
Asphalt Demo Reprocessing	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demo Reprocessing	Crushing/Proc. Equipment	1	8.00	325	0.78
Asphalt Demo Reprocessing	Excavators	0	8.00	158	0.38
Asphalt Demo Reprocessing	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demo Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demo Haul	Excavators	0	8.00	158	0.38
Asphalt Demo Haul	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading	Crawler Tractors	1	8.00	257	0.43
Rough Grading	Excavators	0	8.00	158	0.38
Rough Grading	Graders	2	8.00	238	0.41
Rough Grading	Rubber Tired Dozers	2	8.00	196	0.40
Rough Grading	Scrapers	6	8.00	270	0.48
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Rough Grading Soil Haul	Excavators	1	8.00	300	0.38
Rough Grading Soil Haul	Graders	0	8.00	187	0.41
Rough Grading Soil Haul	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading Soil Haul	Scrapers	0	8.00	367	0.48
Rough Grading Soil Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Utility Trenching	Excavators	2	8.00	300	0.38
Utility Trenching	Tractors/Loaders/Backhoes	2	8.00	230	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	93	0.37
Building Construction	Cranes	1	8.00	110	0.29
Building Construction	Cranes	2	8.00	93	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74

Building Construction	Rough Terrain Forklifts	2	8.00	238	0.40
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Fine Grading	Excavators	0	8.00	158	0.38
Fine Grading	Graders	2	8.00	238	0.41
Fine Grading	Rubber Tired Dozers	0	8.00	247	0.40
Fine Grading	Scrapers	1	8.00	240	0.48
Fine Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	127	0.37
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	230	0.37
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	93	0.37
Paving	Graders	1	8.00	238	0.41
Paving	Pavers	1	8.00	173	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	1	8.00	110	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Demolition	4	20.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demo Haul	1	6.00	0.00	4.00	14.70	6.90	14.00	LD_Mix	HDT_Mix	HHDT
Building Demo Reprocessing	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	4	20.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demo Reprocessing	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demo Haul	0	6.00	0.00	22.00	14.70	6.90	105.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	11	36.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Rough Grading Soil Haul	1	3.00	0.00	3,572.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	5	32.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	60.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	3	36.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	3	20.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	20.00	120.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building Demolition - 2020

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	1.2741	13.3787	9.0385	0.0360		0.4561	0.4561		0.4196	0.4196		3,480.0880	3,480.0880	1.1255		3,508.2263
Total	**1.2741**	**13.3787**	**9.0385**	**0.0360**		**0.4561**	**0.4561**		**0.4196**	**0.4196**		**3,480.0880**	**3,480.0880**	**1.1255**		**3,508.2263**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0256	0.8374	0.1907	2.0900e-003	0.0512	3.9300e-003	0.0552	0.0148	3.7600e-003	0.0185		220.0001	220.0001	0.0164		220.4110
Worker	0.1092	0.0737	0.7393	2.0400e-003	0.2236	1.4600e-003	0.2250	0.0593	1.3500e-003	0.0606		202.7500	202.7500	6.0500e-003		202.9013
Total	**0.1348**	**0.9111**	**0.9299**	**4.1300e-003**	**0.2748**	**5.3900e-003**	**0.2802**	**0.0740**	**5.1100e-003**	**0.0792**		**422.7501**	**422.7501**	**0.0225**		**423.3123**

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	1.2741	13.3787	9.0385	0.0360		0.4561	0.4561		0.4196	0.4196	0.0000	3,480.0880	3,480.0880	1.1255		3,508.2263
Total	**1.2741**	**13.3787**	**9.0385**	**0.0360**		**0.4561**	**0.4561**		**0.4196**	**0.4196**	**0.0000**	**3,480.0880**	**3,480.0880**	**1.1255**		**3,508.2263**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0256	0.8374	0.1907	2.0900e-003	0.0480	3.9300e-003	0.0519	0.0140	3.7600e-003	0.0177		220.0001	220.0001	0.0164		220.4110
Worker	0.1092	0.0737	0.7393	2.0400e-003	0.2061	1.4600e-003	0.2075	0.0550	1.3500e-003	0.0563		202.7500	202.7500	6.0500e-003		202.9013
Total	**0.1348**	**0.9111**	**0.9299**	**4.1300e-003**	**0.2540**	**5.3900e-003**	**0.2594**	**0.0689**	**5.1100e-003**	**0.0741**		**422.7501**	**422.7501**	**0.0225**		**423.3123**

3.3 Building Demo Haul - 2020

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					0.5992	0.0000	0.5992	0.0907	0.0000	0.0907			0.0000			0.0000
Off-Road	0.3084	3.1607	2.2149	9.7700e-003		0.1041	0.1041		0.0958	0.0958		945.5837	945.5837	0.3058		953.2292
Total	**0.3084**	**3.1607**	**2.2149**	**9.7700e-003**	**0.5992**	**0.1041**	**0.7033**	**0.0907**	**0.0958**	**0.1865**		**945.5837**	**945.5837**	**0.3058**		**953.2292**

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	0.0211	0.8227	0.1354	2.3000e-003	0.0490	2.1400e-003	0.0512	0.0134	2.0500e-003	0.0155		244.6182	244.6182	0.0176		245.0580
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0328	0.0221	0.2218	6.1000e-004	0.0671	4.4000e-004	0.0675	0.0178	4.0000e-004	0.0182		60.8250	60.8250	1.8200e-003		60.8704
Total	**0.0539**	**0.8448**	**0.3571**	**2.9100e-003**	**0.1161**	**2.5800e-003**	**0.1187**	**0.0312**	**2.4500e-003**	**0.0337**		**305.4431**	**305.4431**	**0.0194**		**305.9284**

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					0.2562	0.0000	0.2562	0.0388	0.0000	0.0388			0.0000			0.0000
Off-Road	0.3084	3.1607	2.2149	9.7700e-003		0.1041	0.1041		0.0958	0.0958	0.0000	945.5837	945.5837	0.3058		953.2292
Total	**0.3084**	**3.1607**	**2.2149**	**9.7700e-003**	**0.2562**	**0.1041**	**0.3603**	**0.0388**	**0.0958**	**0.1346**	**0.0000**	**945.5837**	**945.5837**	**0.3058**		**953.2292**

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	0.0211	0.8227	0.1354	2.3000e-003	0.0457	2.1400e-003	0.0478	0.0126	2.0500e-003	0.0147		244.6182	244.6182	0.0176		245.0580
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0328	0.0221	0.2218	6.1000e-004	0.0618	4.4000e-004	0.0623	0.0165	4.0000e-004	0.0169		60.8250	60.8250	1.8200e-003		60.8704
Total	**0.0539**	**0.8448**	**0.3571**	**2.9100e-003**	**0.1075**	**2.5800e-003**	**0.1101**	**0.0291**	**2.4500e-003**	**0.0316**		**305.4431**	**305.4431**	**0.0194**		**305.9284**

3.4 Building Demo Reprocessing - 2020

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	1.2563	8.0433	4.8197	0.0224		0.2817	0.2817		0.2817	0.2817		2,540.8504	2,540.8504	0.1118		2,543.6448
Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**		**0.2817**	**0.2817**		**0.2817**	**0.2817**		**2,540.8504**	**2,540.8504**	**0.1118**		**2,543.6448**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0164	0.0111	0.1109	3.1000e-004	0.0335	2.2000e-004	0.0338	8.8900e-003	2.0000e-004	9.1000e-003		30.4125	30.4125	9.1000e-004		30.4352
Total	**0.0164**	**0.0111**	**0.1109**	**3.1000e-004**	**0.0335**	**2.2000e-004**	**0.0338**	**8.8900e-003**	**2.0000e-004**	**9.1000e-003**		**30.4125**	**30.4125**	**9.1000e-004**		**30.4352**

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	1.2563	8.0433	4.8197	0.0224		0.2817	0.2817		0.2817	0.2817	0.0000	2,540.8504	2,540.8504	0.1118		2,543.6448
Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**		**0.2817**	**0.2817**		**0.2817**	**0.2817**	**0.0000**	**2,540.8504**	**2,540.8504**	**0.1118**		**2,543.6448**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0164	0.0111	0.1109	3.1000e-004	0.0309	2.2000e-004	0.0311	8.2500e-003	2.0000e-004	8.4500e-003		30.4125	30.4125	9.1000e-004		30.4352
Total	**0.0164**	**0.0111**	**0.1109**	**3.1000e-004**	**0.0309**	**2.2000e-004**	**0.0311**	**8.2500e-003**	**2.0000e-004**	**8.4500e-003**		**30.4125**	**30.4125**	**9.1000e-004**		**30.4352**

3.5 Asphalt Demolition - 2020

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	1.2741	13.3787	9.0385	0.0360		0.4561	0.4561		0.4196	0.4196		3,480.0880	3,480.0880	1.1255		3,508.2263
Total	**1.2741**	**13.3787**	**9.0385**	**0.0360**		**0.4561**	**0.4561**		**0.4196**	**0.4196**		**3,480.0880**	**3,480.0880**	**1.1255**		**3,508.2263**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0320	1.0467	0.2384	2.6100e-003	0.0641	4.9200e-003	0.0690	0.0184	4.7000e-003	0.0232		275.0001	275.0001	0.0206		275.5138
Worker	0.1092	0.0737	0.7393	2.0400e-003	0.2236	1.4600e-003	0.2250	0.0593	1.3500e-003	0.0606		202.7500	202.7500	6.0500e-003		202.9013
Total	**0.1412**	**1.1205**	**0.9776**	**4.6500e-003**	**0.2876**	**6.3800e-003**	**0.2940**	**0.0777**	**6.0500e-003**	**0.0838**		**477.7501**	**477.7501**	**0.0266**		**478.4150**

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	1.2741	13.3787	9.0385	0.0360		0.4561	0.4561		0.4196	0.4196	0.0000	3,480.0880	3,480.0880	1.1255		3,508.2263
Total	**1.2741**	**13.3787**	**9.0385**	**0.0360**		**0.4561**	**0.4561**		**0.4196**	**0.4196**	**0.0000**	**3,480.0880**	**3,480.0880**	**1.1255**		**3,508.2263**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0320	1.0467	0.2384	2.6100e-003	0.0599	4.9200e-003	0.0649	0.0174	4.7000e-003	0.0221		275.0001	275.0001	0.0206		275.5138
Worker	0.1092	0.0737	0.7393	2.0400e-003	0.2061	1.4600e-003	0.2075	0.0550	1.3500e-003	0.0563		202.7500	202.7500	6.0500e-003		202.9013
Total	**0.1412**	**1.1205**	**0.9776**	**4.6500e-003**	**0.2660**	**6.3800e-003**	**0.2724**	**0.0724**	**6.0500e-003**	**0.0785**		**477.7501**	**477.7501**	**0.0266**		**478.4150**

3.6 Asphalt Demo Reprocessing - 2020

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	1.2563	8.0433	4.8197	0.0224		0.2817	0.2817		0.2817	0.2817		2,540.8504	2,540.8504	0.1118		2,543.6448
Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**		**0.2817**	**0.2817**		**0.2817**	**0.2817**		**2,540.8504**	**2,540.8504**	**0.1118**		**2,543.6448**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0164	0.0111	0.1109	3.1000e-004	0.0335	2.2000e-004	0.0338	8.8900e-003	2.0000e-004	9.1000e-003		30.4125	30.4125	9.1000e-004		30.4352
Total	**0.0164**	**0.0111**	**0.1109**	**3.1000e-004**	**0.0335**	**2.2000e-004**	**0.0338**	**8.8900e-003**	**2.0000e-004**	**9.1000e-003**		**30.4125**	**30.4125**	**9.1000e-004**		**30.4352**

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	1.2563	8.0433	4.8197	0.0224		0.2817	0.2817		0.2817	0.2817	0.0000	2,540.8504	2,540.8504	0.1118		2,543.6448
Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**		**0.2817**	**0.2817**		**0.2817**	**0.2817**	**0.0000**	**2,540.8504**	**2,540.8504**	**0.1118**		**2,543.6448**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0164	0.0111	0.1109	3.1000e-004	0.0309	2.2000e-004	0.0311	8.2500e-003	2.0000e-004	8.4500e-003		30.4125	30.4125	9.1000e-004		30.4352
Total	**0.0164**	**0.0111**	**0.1109**	**3.1000e-004**	**0.0309**	**2.2000e-004**	**0.0311**	**8.2500e-003**	**2.0000e-004**	**8.4500e-003**		**30.4125**	**30.4125**	**9.1000e-004**		**30.4352**

3.7 Asphalt Demo Haul - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5051	0.0000	1.5051	0.2279	0.0000	0.2279			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.5051**	**0.0000**	**1.5051**	**0.2279**	**0.0000**	**0.2279**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.1744	6.1766	1.1104	0.0251	0.6731	0.0272	0.7003	0.1845	0.0260	0.2105		2,666.7979	2,666.7979	0.0854		2,668.9337
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0328	0.0221	0.2218	6.1000e-004	0.0671	4.4000e-004	0.0675	0.0178	4.0000e-004	0.0182		60.8250	60.8250	1.8200e-003		60.8704
Total	**0.2072**	**6.1987**	**1.3322**	**0.0257**	**0.7402**	**0.0276**	**0.7678**	**0.2023**	**0.0264**	**0.2287**		**2,727.6228**	**2,727.6228**	**0.0873**		**2,729.8041**

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					0.6434	0.0000	0.6434	0.0974	0.0000	0.0974			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.6434**	**0.0000**	**0.6434**	**0.0974**	**0.0000**	**0.0974**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.1744	6.1766	1.1104	0.0251	0.6273	0.0272	0.6545	0.1732	0.0260	0.1993		2,666.7979	2,666.7979	0.0854		2,668.9337
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0328	0.0221	0.2218	6.1000e-004	0.0618	4.4000e-004	0.0623	0.0165	4.0000e-004	0.0169		60.8250	60.8250	1.8200e-003		60.8704
Total	**0.2072**	**6.1987**	**1.3322**	**0.0257**	**0.6891**	**0.0276**	**0.7168**	**0.1897**	**0.0264**	**0.2162**		**2,727.6228**	**2,727.6228**	**0.0873**		**2,729.8041**

3.8 Rough Grading - 2020

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					19.9979	0.0000	19.9979	7.4793	0.0000	7.4793			0.0000			0.0000
Off-Road	7.8946	93.0209	48.1678	0.1069		3.6934	3.6934		3.3979	3.3979		10,350.9536	10,350.9536	3.3477		10,434.6463
Total	**7.8946**	**93.0209**	**48.1678**	**0.1069**	**19.9979**	**3.6934**	**23.6913**	**7.4793**	**3.3979**	**10.8772**		**10,350.9536**	**10,350.9536**	**3.3477**		**10,434.6463**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0448	1.4654	0.3337	3.6500e-003	0.0897	6.8800e-003	0.0966	0.0258	6.5900e-003	0.0324		385.0002	385.0002	0.0288		385.7193
Worker	0.1966	0.1327	1.3306	3.6600e-003	0.4024	2.6400e-003	0.4050	0.1067	2.4300e-003	0.1092		364.9499	364.9499	0.0109		365.2223
Total	**0.2414**	**1.5981**	**1.6644**	**7.3100e-003**	**0.4921**	**9.5200e-003**	**0.5016**	**0.1325**	**9.0200e-003**	**0.1416**		**749.9501**	**749.9501**	**0.0397**		**750.9416**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.5491	0.0000	8.5491	3.1974	0.0000	3.1974			0.0000			0.0000
Off-Road	7.8946	93.0209	48.1678	0.1069		3.6934	3.6934		3.3979	3.3979	0.0000	10,350.9536	10,350.9536	3.3477		10,434.6463
Total	**7.8946**	**93.0209**	**48.1678**	**0.1069**	**8.5491**	**3.6934**	**12.2425**	**3.1974**	**3.3979**	**6.5953**	**0.0000**	**10,350.9536**	**10,350.9536**	**3.3477**		**10,434.6463**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0448	1.4654	0.3337	3.6500e-003	0.0839	6.8800e-003	0.0908	0.0244	6.5900e-003	0.0310		385.0002	385.0002	0.0288		385.7193
Worker	0.1966	0.1327	1.3306	3.6600e-003	0.3709	2.6400e-003	0.3736	0.0990	2.4300e-003	0.1014		364.9499	364.9499	0.0109		365.2223
Total	**0.2414**	**1.5981**	**1.6644**	**7.3100e-003**	**0.4548**	**9.5200e-003**	**0.4644**	**0.1234**	**9.0200e-003**	**0.1324**		**749.9501**	**749.9501**	**0.0397**		**750.9416**

3.8 Rough Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.9979	0.0000	19.9979	7.4793	0.0000	7.4793			0.0000			0.0000
Off-Road	7.4685	86.1223	45.7719	0.1069		3.4122	3.4122		3.1392	3.1392		10,350.8316	10,350.8316	3.3477		10,434.5234
Total	**7.4685**	**86.1223**	**45.7719**	**0.1069**	**19.9979**	**3.4122**	**23.4101**	**7.4793**	**3.1392**	**10.6185**		**10,350.8316**	**10,350.8316**	**3.3477**		**10,434.5234**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0384	1.3358	0.2972	3.6300e-003	0.0897	2.3800e-003	0.0921	0.0258	2.2800e-003	0.0281		382.9492	382.9492	0.0279		383.6469
Worker	0.1833	0.1189	1.2224	3.5500e-003	0.4024	2.5700e-003	0.4050	0.1067	2.3700e-003	0.1091		353.3392	353.3392	9.8400e-003		353.5850
Total	**0.2218**	**1.4547**	**1.5196**	**7.1800e-003**	**0.4921**	**4.9500e-003**	**0.4970**	**0.1325**	**4.6500e-003**	**0.1372**		**736.2883**	**736.2883**	**0.0378**		**737.2319**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.5491	0.0000	8.5491	3.1974	0.0000	3.1974			0.0000			0.0000
Off-Road	7.4685	86.1223	45.7719	0.1069		3.4122	3.4122		3.1392	3.1392	0.0000	10,350.8316	10,350.8316	3.3477		10,434.5234
Total	**7.4685**	**86.1223**	**45.7719**	**0.1069**	**8.5491**	**3.4122**	**11.9613**	**3.1974**	**3.1392**	**6.3366**	**0.0000**	**10,350.8316**	**10,350.8316**	**3.3477**		**10,434.5234**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0384	1.3358	0.2972	3.6300e-003	0.0839	2.3800e-003	0.0863	0.0244	2.2800e-003	0.0267		382.9492	382.9492	0.0279		383.6469
Worker	0.1833	0.1189	1.2224	3.5500e-003	0.3709	2.5700e-003	0.3735	0.0990	2.3700e-003	0.1014		353.3392	353.3392	9.8400e-003		353.5850
Total	**0.2218**	**1.4547**	**1.5196**	**7.1800e-003**	**0.4548**	**4.9500e-003**	**0.4598**	**0.1234**	**4.6500e-003**	**0.1280**		**736.2883**	**736.2883**	**0.0378**		**737.2319**

3.9 Rough Grading Soil Haul - 2020

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					0.0912	0.0000	0.0912	0.0138	0.0000	0.0138			0.0000			0.0000
Off-Road	0.3084	3.1607	2.2149	9.7700e-003		0.1041	0.1041		0.0958	0.0958		945.5837	945.5837	0.3058		953.2292
Total	**0.3084**	**3.1607**	**2.2149**	**9.7700e-003**	**0.0912**	**0.1041**	**0.1953**	**0.0138**	**0.0958**	**0.1096**		**945.5837**	**945.5837**	**0.3058**		**953.2292**

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	0.5138	20.4747	3.3033	0.0520	1.2744	0.0456	1.3200	0.3419	0.0436	0.3855		5,514.4590	5,514.4590	0.4701		5,526.2109
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0164	0.0111	0.1109	3.1000e-004	0.0335	2.2000e-004	0.0338	8.8900e-003	2.0000e-004	9.1000e-003		30.4125	30.4125	9.1000e-004		30.4352
Total	**0.5302**	**20.4858**	**3.4142**	**0.0523**	**1.3080**	**0.0458**	**1.3537**	**0.3508**	**0.0438**	**0.3946**		**5,544.8715**	**5,544.8715**	**0.4710**		**5,556.6461**

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					0.0390	0.0000	0.0390	5.9000e-003	0.0000	5.9000e-003			0.0000			0.0000
Off-Road	0.3084	3.1607	2.2149	9.7700e-003		0.1041	0.1041		0.0958	0.0958	0.0000	945.5837	945.5837	0.3058		953.2292
Total	**0.3084**	**3.1607**	**2.2149**	**9.7700e-003**	**0.0390**	**0.1041**	**0.1431**	**5.9000e-003**	**0.0958**	**0.1017**	**0.0000**	**945.5837**	**945.5837**	**0.3058**		**953.2292**

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	0.5138	20.4747	3.3033	0.0520	1.1820	0.0456	1.2276	0.3192	0.0436	0.3628		5,514.4590	5,514.4590	0.4701		5,526.2109
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0164	0.0111	0.1109	3.1000e-004	0.0309	2.2000e-004	0.0311	8.2500e-003	2.0000e-004	8.4500e-003		30.4125	30.4125	9.1000e-004		30.4352
Total	**0.5302**	**20.4858**	**3.4142**	**0.0523**	**1.2130**	**0.0458**	**1.2587**	**0.3275**	**0.0438**	**0.3713**		**5,544.8715**	**5,544.8715**	**0.4710**		**5,556.6461**

3.9 Rough Grading Soil Haul - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0912	0.0000	0.0912	0.0138	0.0000	0.0138			0.0000			0.0000
Off-Road	0.2874	2.6776	2.1871	9.7600e-003		0.0896	0.0896		0.0825	0.0825		944.2165	944.2165	0.3054		951.8510
Total	**0.2874**	**2.6776**	**2.1871**	**9.7600e-003**	**0.0912**	**0.0896**	**0.1808**	**0.0138**	**0.0825**	**0.0963**		**944.2165**	**944.2165**	**0.3054**		**951.8510**

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	0.4892	19.2002	3.1763	0.0515	3.1994	0.0399	3.2393	0.8144	0.0382	0.8526		5,464.0641	5,464.0641	0.4617		5,475.6077
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0153	9.9100e-003	0.1019	3.0000e-004	0.0335	2.1000e-004	0.0338	8.8900e-003	2.0000e-004	9.0900e-003		29.4449	29.4449	8.2000e-004		29.4654
Total	**0.5045**	**19.2101**	**3.2782**	**0.0518**	**3.2329**	**0.0401**	**3.2730**	**0.8233**	**0.0384**	**0.8617**		**5,493.5091**	**5,493.5091**	**0.4626**		**5,505.0732**

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					0.0390	0.0000	0.0390	5.9000e-003	0.0000	5.9000e-003			0.0000			0.0000
Off-Road	0.2874	2.6776	2.1871	9.7600e-003		0.0896	0.0896		0.0825	0.0825	0.0000	944.2165	944.2165	0.3054		951.8510
Total	**0.2874**	**2.6776**	**2.1871**	**9.7600e-003**	**0.0390**	**0.0896**	**0.1286**	**5.9000e-003**	**0.0825**	**0.0884**	**0.0000**	**944.2165**	**944.2165**	**0.3054**		**951.8510**

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	0.4892	19.2002	3.1763	0.0515	2.9337	0.0399	2.9736	0.7492	0.0382	0.7874		5,464.0641	5,464.0641	0.4617		5,475.6077
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0153	9.9100e-003	0.1019	3.0000e-004	0.0309	2.1000e-004	0.0311	8.2500e-003	2.0000e-004	8.4500e-003		29.4449	29.4449	8.2000e-004		29.4654
Total	**0.5045**	**19.2101**	**3.2782**	**0.0518**	**2.9646**	**0.0401**	**3.0048**	**0.7574**	**0.0384**	**0.7958**		**5,493.5091**	**5,493.5091**	**0.4626**		**5,505.0732**

3.10 Utility Trenching - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3831	14.2849	10.1015	0.0371		0.5265	0.5265		0.4844	0.4844		3,589.4934	3,589.4934	1.1609		3,618.5163
Total	**1.3831**	**14.2849**	**10.1015**	**0.0371**		**0.5265**	**0.5265**		**0.4844**	**0.4844**		**3,589.4934**	**3,589.4934**	**1.1609**		**3,618.5163**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0275	0.9541	0.2123	2.5900e-003	0.0641	1.7000e-003	0.0658	0.0184	1.6300e-003	0.0201		273.5351	273.5351	0.0199		274.0335
Worker	0.1630	0.1057	1.0866	3.1500e-003	0.3577	2.2900e-003	0.3600	0.0949	2.1100e-003	0.0970		314.0793	314.0793	8.7400e-003		314.2978
Total	**0.1904**	**1.0598**	**1.2989**	**5.7400e-003**	**0.4217**	**3.9900e-003**	**0.4257**	**0.1133**	**3.7400e-003**	**0.1170**		**587.6144**	**587.6144**	**0.0287**		**588.3313**

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	1.3831	14.2849	10.1015	0.0371		0.5265	0.5265		0.4844	0.4844	0.0000	3,589.4934	3,589.4934	1.1609		3,618.5163
Total	**1.3831**	**14.2849**	**10.1015**	**0.0371**		**0.5265**	**0.5265**		**0.4844**	**0.4844**	**0.0000**	**3,589.4934**	**3,589.4934**	**1.1609**		**3,618.5163**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0275	0.9541	0.2123	2.5900e-003	0.0599	1.7000e-003	0.0616	0.0174	1.6300e-003	0.0191		273.5351	273.5351	0.0199		274.0335
Worker	0.1630	0.1057	1.0866	3.1500e-003	0.3297	2.2900e-003	0.3320	0.0880	2.1100e-003	0.0901		314.0793	314.0793	8.7400e-003		314.2978
Total	**0.1904**	**1.0598**	**1.2989**	**5.7400e-003**	**0.3896**	**3.9900e-003**	**0.3936**	**0.1054**	**3.7400e-003**	**0.1092**		**587.6144**	**587.6144**	**0.0287**		**588.3313**

3.11 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3723	14.0890	9.4580	0.0237		0.7267	0.7267		0.6685	0.6685		2,298.2397	2,298.2397	0.7433		2,316.8221
Total	**1.3723**	**14.0890**	**9.4580**	**0.0237**		**0.7267**	**0.7267**		**0.6685**	**0.6685**		**2,298.2397**	**2,298.2397**	**0.7433**		**2,316.8221**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0329	1.1449	0.2547	3.1100e-003	0.0769	2.0400e-003	0.0789	0.0221	1.9500e-003	0.0241		328.2422	328.2422	0.0239		328.8402
Worker	0.3055	0.1982	2.0374	5.9100e-003	0.6707	4.2900e-003	0.6750	0.1779	3.9500e-003	0.1818		588.8986	588.8986	0.0164		589.3084
Total	**0.3385**	**1.3431**	**2.2921**	**9.0200e-003**	**0.7475**	**6.3300e-003**	**0.7539**	**0.2000**	**5.9000e-003**	**0.2059**		**917.1408**	**917.1408**	**0.0403**		**918.1486**

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	1.3723	14.0890	9.4580	0.0237		0.7267	0.7267		0.6685	0.6685	0.0000	2,298.2397	2,298.2397	0.7433		2,316.8221
Total	**1.3723**	**14.0890**	**9.4580**	**0.0237**		**0.7267**	**0.7267**		**0.6685**	**0.6685**	**0.0000**	**2,298.2397**	**2,298.2397**	**0.7433**		**2,316.8221**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0329	1.1449	0.2547	3.1100e-003	0.0719	2.0400e-003	0.0740	0.0209	1.9500e-003	0.0229		328.2422	328.2422	0.0239		328.8402
Worker	0.3055	0.1982	2.0374	5.9100e-003	0.6182	4.2900e-003	0.6225	0.1650	3.9500e-003	0.1689		588.8986	588.8986	0.0164		589.3084
Total	**0.3385**	**1.3431**	**2.2921**	**9.0200e-003**	**0.6901**	**6.3300e-003**	**0.6964**	**0.1859**	**5.9000e-003**	**0.1918**		**917.1408**	**917.1408**	**0.0403**		**918.1486**

3.12 Fine Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1210	0.0000	2.1210	0.2290	0.0000	0.2290			0.0000			0.0000
Off-Road	1.9467	23.9536	8.3256	0.0267		0.8620	0.8620		0.7931	0.7931		2,586.5383	2,586.5383	0.8365		2,607.4517
Total	**1.9467**	**23.9536**	**8.3256**	**0.0267**	**2.1210**	**0.8620**	**2.9830**	**0.2290**	**0.7931**	**1.0221**		**2,586.5383**	**2,586.5383**	**0.8365**		**2,607.4517**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0220	0.7633	0.1698	2.0700e-003	0.0512	1.3600e-003	0.0526	0.0148	1.3000e-003	0.0161		218.8281	218.8281	0.0160		219.2268
Worker	0.1833	0.1189	1.2224	3.5500e-003	0.4024	2.5700e-003	0.4050	0.1067	2.3700e-003	0.1091		353.3392	353.3392	9.8400e-003		353.5850
Total	**0.2053**	**0.8822**	**1.3922**	**5.6200e-003**	**0.4536**	**3.9300e-003**	**0.4576**	**0.1215**	**3.6700e-003**	**0.1251**		**572.1673**	**572.1673**	**0.0258**		**572.8118**

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					0.9067	0.0000	0.9067	0.0979	0.0000	0.0979			0.0000			0.0000
Off-Road	1.9467	23.9536	8.3256	0.0267		0.8620	0.8620		0.7931	0.7931	0.0000	2,586.5382	2,586.5382	0.8365		2,607.4517
Total	**1.9467**	**23.9536**	**8.3256**	**0.0267**	**0.9067**	**0.8620**	**1.7688**	**0.0979**	**0.7931**	**0.8910**	**0.0000**	**2,586.5382**	**2,586.5382**	**0.8365**		**2,607.4517**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0220	0.7633	0.1698	2.0700e-003	0.0480	1.3600e-003	0.0493	0.0140	1.3000e-003	0.0153		218.8281	218.8281	0.0160		219.2268
Worker	0.1833	0.1189	1.2224	3.5500e-003	0.3709	2.5700e-003	0.3735	0.0990	2.3700e-003	0.1014		353.3392	353.3392	9.8400e-003		353.5850
Total	**0.2053**	**0.8822**	**1.3922**	**5.6200e-003**	**0.4189**	**3.9300e-003**	**0.4228**	**0.1129**	**3.6700e-003**	**0.1166**		**572.1673**	**572.1673**	**0.0258**		**572.8118**

3.13 Finishing/Landscaping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6771	7.0827	6.5087	0.0143		0.3135	0.3135		0.2884	0.2884		1,382.2459	1,382.2459	0.4471		1,393.4220
Total	**0.6771**	**7.0827**	**6.5087**	**0.0143**		**0.3135**	**0.3135**		**0.2884**	**0.2884**		**1,382.2459**	**1,382.2459**	**0.4471**		**1,393.4220**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0165	0.5725	0.1274	1.5600e-003	0.0384	1.0200e-003	0.0395	0.0111	9.8000e-004	0.0120		164.1211	164.1211	0.0120		164.4201
Worker	0.1018	0.0661	0.6791	1.9700e-003	0.2236	1.4300e-003	0.2250	0.0593	1.3200e-003	0.0606		196.2995	196.2995	5.4600e-003		196.4361
Total	**0.1183**	**0.6385**	**0.8065**	**3.5300e-003**	**0.2620**	**2.4500e-003**	**0.2644**	**0.0704**	**2.3000e-003**	**0.0726**		**360.4206**	**360.4206**	**0.0174**		**360.8562**

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	0.6771	7.0827	6.5087	0.0143		0.3135	0.3135		0.2884	0.2884	0.0000	1,382.2459	1,382.2459	0.4471		1,393.4220
Total	**0.6771**	**7.0827**	**6.5087**	**0.0143**		**0.3135**	**0.3135**		**0.2884**	**0.2884**	**0.0000**	**1,382.2459**	**1,382.2459**	**0.4471**		**1,393.4220**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0165	0.5725	0.1274	1.5600e-003	0.0360	1.0200e-003	0.0370	0.0105	9.8000e-004	0.0114		164.1211	164.1211	0.0120		164.4201
Worker	0.1018	0.0661	0.6791	1.9700e-003	0.2061	1.4300e-003	0.2075	0.0550	1.3200e-003	0.0563		196.2995	196.2995	5.4600e-003		196.4361
Total	**0.1183**	**0.6385**	**0.8065**	**3.5300e-003**	**0.2420**	**2.4500e-003**	**0.2445**	**0.0655**	**2.3000e-003**	**0.0678**		**360.4206**	**360.4206**	**0.0174**		**360.8562**

3.14 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1648	13.6396	8.7004	0.0183		0.5675	0.5675		0.5221	0.5221		1,771.6421	1,771.6421	0.5730		1,785.9667
Paving	7.3819					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**8.5466**	**13.6396**	**8.7004**	**0.0183**		**0.5675**	**0.5675**		**0.5221**	**0.5221**		**1,771.6421**	**1,771.6421**	**0.5730**		**1,785.9667**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3294	11.4493	2.5472	0.0311	0.7686	0.0204	0.7890	0.2213	0.0195	0.2408		3,282.4216	3,282.4216	0.2392		3,288.4018
Worker	0.1018	0.0661	0.6791	1.9700e-003	0.2236	1.4300e-003	0.2250	0.0593	1.3200e-003	0.0606		196.2995	196.2995	5.4600e-003		196.4361
Total	**0.4312**	**11.5154**	**3.2263**	**0.0331**	**0.9921**	**0.0218**	**1.0139**	**0.2806**	**0.0208**	**0.3014**		**3,478.7211**	**3,478.7211**	**0.2447**		**3,484.8380**

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	1.1648	13.6396	8.7004	0.0183		0.5675	0.5675		0.5221	0.5221	0.0000	1,771.6421	1,771.6421	0.5730		1,785.9667
Paving	7.3819					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**8.5466**	**13.6396**	**8.7004**	**0.0183**		**0.5675**	**0.5675**		**0.5221**	**0.5221**	**0.0000**	**1,771.6421**	**1,771.6421**	**0.5730**		**1,785.9667**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3294	11.4493	2.5472	0.0311	0.7193	0.0204	0.7397	0.2092	0.0195	0.2287		3,282.4216	3,282.4216	0.2392		3,288.4018
Worker	0.1018	0.0661	0.6791	1.9700e-003	0.2061	1.4300e-003	0.2075	0.0550	1.3200e-003	0.0563		196.2995	196.2995	5.4600e-003		196.4361
Total	**0.4312**	**11.5154**	**3.2263**	**0.0331**	**0.9254**	**0.0218**	**0.9472**	**0.2642**	**0.0208**	**0.2850**		**3,478.7211**	**3,478.7211**	**0.2447**		**3,484.8380**

3.15 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	299.8089					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**300.0278**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0611	0.0396	0.4075	1.1800e-003	0.1341	8.6000e-004	0.1350	0.0356	7.9000e-004	0.0364		117.7797	117.7797	3.2800e-003		117.8617
Total	**0.0611**	**0.0396**	**0.4075**	**1.1800e-003**	**0.1341**	**8.6000e-004**	**0.1350**	**0.0356**	**7.9000e-004**	**0.0364**		**117.7797**	**117.7797**	**3.2800e-003**		**117.8617**

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	299.8089					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**300.0278**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0611	0.0396	0.4075	1.1800e-003	0.1236	8.6000e-004	0.1245	0.0330	7.9000e-004	0.0338		117.7797	117.7797	3.2800e-003		117.8617
Total	**0.0611**	**0.0396**	**0.4075**	**1.1800e-003**	**0.1236**	**8.6000e-004**	**0.1245**	**0.0330**	**7.9000e-004**	**0.0338**		**117.7797**	**117.7797**	**3.2800e-003**		**117.8617**

Phase 1 Construction

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	200.00	1000sqft	4.59	200,000.00	0
Unrefrigerated Warehouse-No Rail	1,247.12	1000sqft	28.15	1,227,123.00	0
Other Asphalt Surfaces	16.22	Acre	16.22	706,467.00	0
Other Non-Asphalt Surfaces	6.72	Acre	6.72	292,958.00	0
Parking Lot	6.32	Acre	6.32	275,315.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2021
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions file in the AQ/GHG appendix for details.

Construction Phase - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment -

Off-road Equipment - Placeholder for haul trips only. No additional equipment assumed.

Off-road Equipment - Based on information provided. See the assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - Based on information provided. See the assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment -

Off-road Equipment - See assumptions file in the AQ/GHG appendix for details.

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Off-road Equipment - See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - Based on information provided. See the assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - See the assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - Based on information provided. See the assumptions file in the AQ/GHG appendix for details.

Trips and VMT - See assumptions file in the AQ/GHG appendix for details.

Demolition -

Grading -

Architectural Coating - See assumptions file in the AQ/GHG appendix for details.

Construction Off-road Equipment Mitigation - Based on SCAQMD Rules 403 and 1186.

Area Coating - See assumptions file

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	713,562.00	723,562.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,140,685.00	2,170,685.00
tblArchitecturalCoating	ConstArea_Parking	76,484.00	16,519.00

tblAreaCoating	Area_Nonresidential_Exterior	713560	723562
tblAreaCoating	Area_Nonresidential_Interior	2140680	2170685
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	75.00	45.00
tblConstructionPhase	NumDays	1,110.00	246.00
tblConstructionPhase	NumDays	70.00	10.00
tblConstructionPhase	NumDays	70.00	1.00
tblConstructionPhase	NumDays	70.00	1.00
tblConstructionPhase	NumDays	70.00	31.00
tblConstructionPhase	NumDays	70.00	5.00
tblConstructionPhase	NumDays	70.00	3.00
tblConstructionPhase	NumDays	110.00	14.00
tblConstructionPhase	NumDays	110.00	30.00
tblConstructionPhase	NumDays	110.00	31.00
tblConstructionPhase	NumDays	75.00	8.00
tblGrading	MaterialExported	0.00	25,000.00
tblLandUse	LandUseSquareFeet	1,247,120.00	1,227,123.00
tblLandUse	LandUseSquareFeet	706,543.20	706,467.00
tblLandUse	LandUseSquareFeet	292,723.20	292,958.00
tblLandUse	LandUseSquareFeet	275,299.20	275,315.00
tblLandUse	LotAcreage	28.63	28.15
tblOffRoadEquipment	HorsePower	231.00	110.00
tblOffRoadEquipment	HorsePower	231.00	93.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	158.00	300.00

tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	130.00	173.00
tblOffRoadEquipment	HorsePower	80.00	110.00
tblOffRoadEquipment	HorsePower	247.00	196.00
tblOffRoadEquipment	HorsePower	367.00	240.00
tblOffRoadEquipment	HorsePower	367.00	270.00
tblOffRoadEquipment	HorsePower	212.00	257.00
tblOffRoadEquipment	HorsePower	85.00	325.00
tblOffRoadEquipment	HorsePower	85.00	325.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	100.00	238.00
tblOffRoadEquipment	HorsePower	97.00	260.00
tblOffRoadEquipment	HorsePower	97.00	127.00
tblOffRoadEquipment	HorsePower	97.00	230.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	HorsePower	97.00	260.00
tblOffRoadEquipment	HorsePower	97.00	230.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	1,172.29	1,153.49
tblTripsAndVMT	HaulingTripLength	20.00	14.00
tblTripsAndVMT	HaulingTripLength	20.00	105.00
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	HaulingTripNumber	3.00	4.00
tblTripsAndVMT	HaulingTripNumber	21.00	22.00
tblTripsAndVMT	HaulingTripNumber	3,125.00	3,572.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	443.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	120.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	1,135.00	60.00

tblTripsAndVMT	WorkerTripNumber	8.00	36.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	227.00	12.00
tblTripsAndVMT	WorkerTripNumber	3.00	6.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	28.00	36.00
tblTripsAndVMT	WorkerTripNumber	13.00	32.00
tblWater	IndoorWaterUseRate	288,396,500.00	283,771,500.00

2.0 Emissions Summary

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					
2020	0.1358	1.6980	0.8581	2.9900e-003	0.2891	0.0547	0.3438	0.0970	0.0504	0.1474	0.0000	270.0705	270.0705	0.0651	0.0000	271.6990
2021	7.0974	3.1830	2.2833	6.7300e-003	0.3092	0.1345	0.4437	0.0730	0.1239	0.1969	0.0000	599.9904	599.9904	0.1462	0.0000	603.6455
Maximum	**7.0974**	**3.1830**	**2.2833**	**6.7300e-003**	**0.3092**	**0.1345**	**0.4437**	**0.0970**	**0.1239**	**0.1969**	**0.0000**	**599.9904**	**599.9904**	**0.1462**	**0.0000**	**603.6455**

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					
2020	0.1358	1.6980	0.8581	2.9900e-003	0.1372	0.0547	0.1919	0.0452	0.0504	0.0956	0.0000	270.0703	270.0703	0.0651	0.0000	271.6988
2021	7.0974	3.1830	2.2833	6.7300e-003	0.1974	0.1345	0.3319	0.0489	0.1239	0.1728	0.0000	599.9898	599.9898	0.1462	0.0000	603.6450
Maximum	**7.0974**	**3.1830**	**2.2833**	**6.7300e-003**	**0.1974**	**0.1345**	**0.3319**	**0.0489**	**0.1239**	**0.1728**	**0.0000**	**599.9898**	**599.9898**	**0.1462**	**0.0000**	**603.6450**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**44.08**	**0.00**	**33.49**	**44.68**	**0.00**	**22.06**	**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	**10-5-2020**	**1-4-2021**	2.2275	2.2275
2	**1-5-2021**	**4-4-2021**	1.4039	1.4039
3	**4-5-2021**	**7-4-2021**	0.5571	0.5571
4	**7-5-2021**	**9-30-2021**	2.7828	2.7828
		Highest	2.7828	2.7828

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Demolition	Demolition	10/5/2020	10/16/2020	5	10	
2	Building Demo Haul	Demolition	10/19/2020	10/19/2020	5	1	

3	Building Demo Reprocessing	Demolition	10/19/2020	10/19/2020	5	1	
4	Asphalt Demolition	Demolition	10/19/2020	11/30/2020	5	31	
5	Asphalt Demo Reprocessing	Demolition	11/24/2020	11/30/2020	5	5	
6	Asphalt Demo Haul	Demolition	11/25/2020	11/27/2020	5	3	
7	Rough Grading	Grading	12/1/2020	1/11/2021	5	30	
8	Rough Grading Soil Haul	Grading	12/1/2020	1/12/2021	5	31	
9	Utility Trenching	Trenching	1/12/2021	3/12/2021	5	44	
10	Building Construction	Building Construction	1/12/2021	12/21/2021	5	246	
11	Fine Grading	Grading	3/15/2021	4/1/2021	5	14	
12	Finishing/Landscaping	Trenching	8/2/2021	10/25/2021	5	61	
13	Paving	Paving	9/1/2021	9/10/2021	5	8	
14	Architectural Coating	Architectural Coating	9/13/2021	11/12/2021	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 29.26

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,170,685; Non-Residential Outdoor: 723,562; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition	Excavators	2	8.00	300	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Building Demolition	Tractors/Loaders/Backhoes	2	8.00	260	0.37
Building Demo Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demo Haul	Excavators	1	8.00	300	0.38
Building Demo Haul	Rubber Tired Dozers	0	8.00	247	0.40

Building Demo Reprocessing	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demo Reprocessing	Crushing/Proc. Equipment	1	8.00	325	0.78
Building Demo Reprocessing	Excavators	0	8.00	158	0.38
Building Demo Reprocessing	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Excavators	2	8.00	300	0.38
Asphalt Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Tractors/Loaders/Backhoes	2	8.00	260	0.37
Asphalt Demo Reprocessing	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demo Reprocessing	Crushing/Proc. Equipment	1	8.00	325	0.78
Asphalt Demo Reprocessing	Excavators	0	8.00	158	0.38
Asphalt Demo Reprocessing	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demo Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demo Haul	Excavators	0	8.00	158	0.38
Asphalt Demo Haul	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading	Crawler Tractors	1	8.00	257	0.43
Rough Grading	Excavators	0	8.00	158	0.38
Rough Grading	Graders	2	8.00	238	0.41
Rough Grading	Rubber Tired Dozers	2	8.00	196	0.40
Rough Grading	Scrapers	6	8.00	270	0.48
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Rough Grading Soil Haul	Excavators	1	8.00	300	0.38
Rough Grading Soil Haul	Graders	0	8.00	187	0.41
Rough Grading Soil Haul	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading Soil Haul	Scrapers	0	8.00	367	0.48
Rough Grading Soil Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Utility Trenching	Excavators	2	8.00	300	0.38

Utility Trenching	Tractors/Loaders/Backhoes	2	8.00	230	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	93	0.37
Building Construction	Cranes	1	8.00	110	0.29
Building Construction	Cranes	2	8.00	93	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	2	8.00	238	0.40
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Fine Grading	Excavators	0	8.00	158	0.38
Fine Grading	Graders	2	8.00	238	0.41
Fine Grading	Rubber Tired Dozers	0	8.00	247	0.40
Fine Grading	Scrapers	1	8.00	240	0.48
Fine Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	127	0.37
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	230	0.37
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	93	0.37
Paving	Graders	1	8.00	238	0.41
Paving	Pavers	1	8.00	173	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	1	8.00	110	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Demolition	4	20.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Building Demo Haul	1	6.00	0.00	4.00	14.70	6.90	14.00	LD_Mix	HDT_Mix	HHDT
Building Demo Reprocessing	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	4	20.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demo Reprocessing	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demo Haul	0	6.00	0.00	22.00	14.70	6.90	105.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	11	36.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading Soil Haul	1	3.00	0.00	3,572.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	5	32.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	60.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	3	36.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	3	20.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	20.00	120.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building Demolition - 2020

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	6.3700e-003	0.0669	0.0452	1.8000e-004		2.2800e-003	2.2800e-003		2.1000e-003	2.1000e-003	0.0000	15.7854	15.7854	5.1100e-003	0.0000	15.9131
Total	**6.3700e-003**	**0.0669**	**0.0452**	**1.8000e-004**		**2.2800e-003**	**2.2800e-003**		**2.1000e-003**	**2.1000e-003**	**0.0000**	**15.7854**	**15.7854**	**5.1100e-003**	**0.0000**	**15.9131**

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	1.2000e-004	4.2700e-003	8.9000e-004	1.0000e-005	2.5000e-004	2.0000e-005	2.7000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	1.0213	1.0213	7.0000e-005	0.0000	1.0230
Worker	4.9000e-004	3.9000e-004	3.8800e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9398	0.9398	3.0000e-005	0.0000	0.9405
Total	**6.1000e-004**	**4.6600e-003**	**4.7700e-003**	**2.0000e-005**	**1.3500e-003**	**3.0000e-005**	**1.3700e-003**	**3.6000e-004**	**3.0000e-005**	**3.9000e-004**	**0.0000**	**1.9611**	**1.9611**	**1.0000e-004**	**0.0000**	**1.9636**

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	6.3700e-003	0.0669	0.0452	1.8000e-004		2.2800e-003	2.2800e-003		2.1000e-003	2.1000e-003	0.0000	15.7854	15.7854	5.1100e-003	0.0000	15.9130
Total	**6.3700e-003**	**0.0669**	**0.0452**	**1.8000e-004**		**2.2800e-003**	**2.2800e-003**		**2.1000e-003**	**2.1000e-003**	**0.0000**	**15.7854**	**15.7854**	**5.1100e-003**	**0.0000**	**15.9130**

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	1.2000e-004	4.2700e-003	8.9000e-004	1.0000e-005	2.4000e-004	2.0000e-005	2.6000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	1.0213	1.0213	7.0000e-005	0.0000	1.0230
Worker	4.9000e-004	3.9000e-004	3.8800e-003	1.0000e-005	1.0100e-003	1.0000e-005	1.0200e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.9398	0.9398	3.0000e-005	0.0000	0.9405
Total	**6.1000e-004**	**4.6600e-003**	**4.7700e-003**	**2.0000e-005**	**1.2500e-003**	**3.0000e-005**	**1.2800e-003**	**3.4000e-004**	**3.0000e-005**	**3.7000e-004**	**0.0000**	**1.9611**	**1.9611**	**1.0000e-004**	**0.0000**	**1.9636**

3.3 Building Demo Haul - 2020

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					3.0000e-004	0.0000	3.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5000e-004	1.5800e-003	1.1100e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.4289	0.4289	1.4000e-004	0.0000	0.4324
Total	**1.5000e-004**	**1.5800e-003**	**1.1100e-003**	**0.0000**	**3.0000e-004**	**5.0000e-005**	**3.5000e-004**	**5.0000e-005**	**5.0000e-005**	**1.0000e-004**	**0.0000**	**0.4289**	**0.4289**	**1.4000e-004**	**0.0000**	**0.4324**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	4.2000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1132	0.1132	1.0000e-005	0.0000	0.1134
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0282	0.0282	0.0000	0.0000	0.0282
Total	**2.0000e-005**	**4.3000e-004**	**1.8000e-004**	**0.0000**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.1414**	**0.1414**	**1.0000e-005**	**0.0000**	**0.1417**

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					1.3000e-004	0.0000	1.3000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5000e-004	1.5800e-003	1.1100e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.4289	0.4289	1.4000e-004	0.0000	0.4324
Total	**1.5000e-004**	**1.5800e-003**	**1.1100e-003**	**0.0000**	**1.3000e-004**	**5.0000e-005**	**1.8000e-004**	**2.0000e-005**	**5.0000e-005**	**7.0000e-005**	**0.0000**	**0.4289**	**0.4289**	**1.4000e-004**	**0.0000**	**0.4324**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	4.2000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1132	0.1132	1.0000e-005	0.0000	0.1134
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0282	0.0282	0.0000	0.0000	0.0282
Total	**2.0000e-005**	**4.3000e-004**	**1.8000e-004**	**0.0000**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.1414**	**0.1414**	**1.0000e-005**	**0.0000**	**0.1417**

3.4 Building Demo Reprocessing - 2020

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	6.3000e-004	4.0200e-003	2.4100e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	1.1525	1.1525	5.0000e-005	0.0000	1.1538
Total	**6.3000e-004**	**4.0200e-003**	**2.4100e-003**	**1.0000e-005**		**1.4000e-004**	**1.4000e-004**		**1.4000e-004**	**1.4000e-004**	**0.0000**	**1.1525**	**1.1525**	**5.0000e-005**	**0.0000**	**1.1538**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0141	0.0141	0.0000	0.0000	0.0141
Total	**1.0000e-005**	**1.0000e-005**	**6.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0141**	**0.0141**	**0.0000**	**0.0000**	**0.0141**

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	6.3000e-004	4.0200e-003	2.4100e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	1.1525	1.1525	5.0000e-005	0.0000	1.1538
Total	**6.3000e-004**	**4.0200e-003**	**2.4100e-003**	**1.0000e-005**		**1.4000e-004**	**1.4000e-004**		**1.4000e-004**	**1.4000e-004**	**0.0000**	**1.1525**	**1.1525**	**5.0000e-005**	**0.0000**	**1.1538**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0141	0.0141	0.0000	0.0000	0.0141
Total	**1.0000e-005**	**1.0000e-005**	**6.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0141**	**0.0141**	**0.0000**	**0.0000**	**0.0141**

3.5 Asphalt Demolition - 2020

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	0.0198	0.2074	0.1401	5.6000e-004		7.0700e-003	7.0700e-003		6.5000e-003	6.5000e-003	0.0000	48.9348	48.9348	0.0158	0.0000	49.3304
Total	**0.0198**	**0.2074**	**0.1401**	**5.6000e-004**		**7.0700e-003**	**7.0700e-003**		**6.5000e-003**	**6.5000e-003**	**0.0000**	**48.9348**	**48.9348**	**0.0158**	**0.0000**	**49.3304**

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	4.8000e-004	0.0166	3.4600e-003	4.0000e-005	9.8000e-004	8.0000e-005	1.0500e-003	2.8000e-004	7.0000e-005	3.5000e-004	0.0000	3.9574	3.9574	2.7000e-004	0.0000	3.9643
Worker	1.5300e-003	1.2000e-003	0.0120	3.0000e-005	3.4000e-003	2.0000e-005	3.4200e-003	9.0000e-004	2.0000e-005	9.2000e-004	0.0000	2.9134	2.9134	9.0000e-005	0.0000	2.9156
Total	**2.0100e-003**	**0.0178**	**0.0155**	**7.0000e-005**	**4.3800e-003**	**1.0000e-004**	**4.4700e-003**	**1.1800e-003**	**9.0000e-005**	**1.2700e-003**	**0.0000**	**6.8709**	**6.8709**	**3.6000e-004**	**0.0000**	**6.8799**

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	0.0198	0.2074	0.1401	5.6000e-004		7.0700e-003	7.0700e-003		6.5000e-003	6.5000e-003	0.0000	48.9347	48.9347	0.0158	0.0000	49.3304
Total	**0.0198**	**0.2074**	**0.1401**	**5.6000e-004**		**7.0700e-003**	**7.0700e-003**		**6.5000e-003**	**6.5000e-003**	**0.0000**	**48.9347**	**48.9347**	**0.0158**	**0.0000**	**49.3304**

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	4.8000e-004	0.0166	3.4600e-003	4.0000e-005	9.2000e-004	8.0000e-005	9.9000e-004	2.7000e-004	7.0000e-005	3.4000e-004	0.0000	3.9574	3.9574	2.7000e-004	0.0000	3.9643
Worker	1.5300e-003	1.2000e-003	0.0120	3.0000e-005	3.1300e-003	2.0000e-005	3.1600e-003	8.4000e-004	2.0000e-005	8.6000e-004	0.0000	2.9134	2.9134	9.0000e-005	0.0000	2.9156
Total	**2.0100e-003**	**0.0178**	**0.0155**	**7.0000e-005**	**4.0500e-003**	**1.0000e-004**	**4.1500e-003**	**1.1100e-003**	**9.0000e-005**	**1.2000e-003**	**0.0000**	**6.8709**	**6.8709**	**3.6000e-004**	**0.0000**	**6.8799**

3.6 Asphalt Demo Reprocessing - 2020

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	3.1400e-003	0.0201	0.0121	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004	0.0000	5.7626	5.7626	2.5000e-004	0.0000	5.7689
Total	**3.1400e-003**	**0.0201**	**0.0121**	**6.0000e-005**		**7.0000e-004**	**7.0000e-004**		**7.0000e-004**	**7.0000e-004**	**0.0000**	**5.7626**	**5.7626**	**2.5000e-004**	**0.0000**	**5.7689**

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	4.0000e-005	3.0000e-005	2.9000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0705	0.0705	0.0000	0.0000	0.0705
Total	**4.0000e-005**	**3.0000e-005**	**2.9000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0705**	**0.0705**	**0.0000**	**0.0000**	**0.0705**

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	3.1400e-003	0.0201	0.0121	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004	0.0000	5.7626	5.7626	2.5000e-004	0.0000	5.7689
Total	**3.1400e-003**	**0.0201**	**0.0121**	**6.0000e-005**		**7.0000e-004**	**7.0000e-004**		**7.0000e-004**	**7.0000e-004**	**0.0000**	**5.7626**	**5.7626**	**2.5000e-004**	**0.0000**	**5.7689**

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	4.0000e-005	3.0000e-005	2.9000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0705	0.0705	0.0000	0.0000	0.0705
Total	**4.0000e-005**	**3.0000e-005**	**2.9000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0705**	**0.0705**	**0.0000**	**0.0000**	**0.0705**

3.7 Asphalt Demo Haul - 2020

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					2.2600e-003	0.0000	2.2600e-003	3.4000e-004	0.0000	3.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.2600e-003**	**0.0000**	**2.2600e-003**	**3.4000e-004**	**0.0000**	**3.4000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.6000e-004	9.4200e-003	1.6300e-003	4.0000e-005	9.9000e-004	4.0000e-005	1.0300e-003	2.7000e-004	4.0000e-005	3.1000e-004	0.0000	3.6415	3.6415	1.1000e-004	0.0000	3.6443
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	4.0000e-005	3.0000e-005	3.5000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0846	0.0846	0.0000	0.0000	0.0847
Total	**3.0000e-004**	**9.4500e-003**	**1.9800e-003**	**4.0000e-005**	**1.0900e-003**	**4.0000e-005**	**1.1300e-003**	**3.0000e-004**	**4.0000e-005**	**3.4000e-004**	**0.0000**	**3.7261**	**3.7261**	**1.1000e-004**	**0.0000**	**3.7290**

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					9.7000e-004	0.0000	9.7000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**9.7000e-004**	**0.0000**	**9.7000e-004**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.6000e-004	9.4200e-003	1.6300e-003	4.0000e-005	9.3000e-004	4.0000e-005	9.7000e-004	2.6000e-004	4.0000e-005	3.0000e-004	0.0000	3.6415	3.6415	1.1000e-004	0.0000	3.6443
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	4.0000e-005	3.0000e-005	3.5000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0846	0.0846	0.0000	0.0000	0.0847
Total	**3.0000e-004**	**9.4500e-003**	**1.9800e-003**	**4.0000e-005**	**1.0200e-003**	**4.0000e-005**	**1.0600e-003**	**2.8000e-004**	**4.0000e-005**	**3.2000e-004**	**0.0000**	**3.7261**	**3.7261**	**1.1000e-004**	**0.0000**	**3.7290**

3.8 Rough Grading - 2020

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					0.2578	0.0000	0.2578	0.0890	0.0000	0.0890	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0908	1.0697	0.5539	1.2300e-003		0.0425	0.0425		0.0391	0.0391	0.0000	107.9876	107.9876	0.0349	0.0000	108.8608
Total	**0.0908**	**1.0697**	**0.5539**	**1.2300e-003**	**0.2578**	**0.0425**	**0.3003**	**0.0890**	**0.0391**	**0.1281**	**0.0000**	**107.9876**	**107.9876**	**0.0349**	**0.0000**	**108.8608**

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	5.0000e-004	0.0172	3.5900e-003	4.0000e-005	1.0200e-003	8.0000e-005	1.0900e-003	2.9000e-004	8.0000e-005	3.7000e-004	0.0000	4.1106	4.1106	2.8000e-004	0.0000	4.1177
Worker	2.0500e-003	1.6100e-003	0.0161	4.0000e-005	4.5400e-003	3.0000e-005	4.5700e-003	1.2100e-003	3.0000e-005	1.2300e-003	0.0000	3.8909	3.8909	1.2000e-004	0.0000	3.8938
Total	**2.5500e-003**	**0.0188**	**0.0197**	**8.0000e-005**	**5.5600e-003**	**1.1000e-004**	**5.6600e-003**	**1.5000e-003**	**1.1000e-004**	**1.6000e-003**	**0.0000**	**8.0015**	**8.0015**	**4.0000e-004**	**0.0000**	**8.0115**

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					0.1102	0.0000	0.1102	0.0381	0.0000	0.0381	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0908	1.0697	0.5539	1.2300e-003		0.0425	0.0425		0.0391	0.0391	0.0000	107.9875	107.9875	0.0349	0.0000	108.8606
Total	**0.0908**	**1.0697**	**0.5539**	**1.2300e-003**	**0.1102**	**0.0425**	**0.1527**	**0.0381**	**0.0391**	**0.0771**	**0.0000**	**107.9875**	**107.9875**	**0.0349**	**0.0000**	**108.8606**

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	5.0000e-004	0.0172	3.5900e-003	4.0000e-005	9.5000e-004	8.0000e-005	1.0300e-003	2.8000e-004	8.0000e-005	3.5000e-004	0.0000	4.1106	4.1106	2.8000e-004	0.0000	4.1177
Worker	2.0500e-003	1.6100e-003	0.0161	4.0000e-005	4.1900e-003	3.0000e-005	4.2200e-003	1.1200e-003	3.0000e-005	1.1500e-003	0.0000	3.8909	3.8909	1.2000e-004	0.0000	3.8938
Total	**2.5500e-003**	**0.0188**	**0.0197**	**8.0000e-005**	**5.1400e-003**	**1.1000e-004**	**5.2500e-003**	**1.4000e-003**	**1.1000e-004**	**1.5000e-003**	**0.0000**	**8.0015**	**8.0015**	**4.0000e-004**	**0.0000**	**8.0115**

3.8 Rough Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1615	0.0000	0.1615	0.0361	0.0000	0.0361	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0261	0.3014	0.1602	3.7000e-004		0.0119	0.0119		0.0110	0.0110	0.0000	32.8654	32.8654	0.0106	0.0000	33.1311
Total	**0.0261**	**0.3014**	**0.1602**	**3.7000e-004**	**0.1615**	**0.0119**	**0.1734**	**0.0361**	**0.0110**	**0.0470**	**0.0000**	**32.8654**	**32.8654**	**0.0106**	**0.0000**	**33.1311**

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	1.3000e-004	4.7700e-003	9.7000e-004	1.0000e-005	3.1000e-004	1.0000e-005	3.2000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	1.2444	1.2444	8.0000e-005	0.0000	1.2465
Worker	5.8000e-004	4.4000e-004	4.4900e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.3900e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.1465	1.1465	3.0000e-005	0.0000	1.1473
Total	**7.1000e-004**	**5.2100e-003**	**5.4600e-003**	**2.0000e-005**	**1.6900e-003**	**2.0000e-005**	**1.7100e-003**	**4.6000e-004**	**2.0000e-005**	**4.8000e-004**	**0.0000**	**2.3909**	**2.3909**	**1.1000e-004**	**0.0000**	**2.3938**

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					0.0690	0.0000	0.0690	0.0154	0.0000	0.0154	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0261	0.3014	0.1602	3.7000e-004		0.0119	0.0119		0.0110	0.0110	0.0000	32.8654	32.8654	0.0106	0.0000	33.1311
Total	**0.0261**	**0.3014**	**0.1602**	**3.7000e-004**	**0.0690**	**0.0119**	**0.0810**	**0.0154**	**0.0110**	**0.0264**	**0.0000**	**32.8654**	**32.8654**	**0.0106**	**0.0000**	**33.1311**

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	1.3000e-004	4.7700e-003	9.7000e-004	1.0000e-005	2.9000e-004	1.0000e-005	3.0000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.2444	1.2444	8.0000e-005	0.0000	1.2465
Worker	5.8000e-004	4.4000e-004	4.4900e-003	1.0000e-005	1.2700e-003	1.0000e-005	1.2800e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1465	1.1465	3.0000e-005	0.0000	1.1473
Total	**7.1000e-004**	**5.2100e-003**	**5.4600e-003**	**2.0000e-005**	**1.5600e-003**	**2.0000e-005**	**1.5800e-003**	**4.2000e-004**	**2.0000e-005**	**4.4000e-004**	**0.0000**	**2.3909**	**2.3909**	**1.1000e-004**	**0.0000**	**2.3938**

3.9 Rough Grading Soil Haul - 2020

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					1.4100e-003	0.0000	1.4100e-003	2.1000e-004	0.0000	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5500e-003	0.0364	0.0255	1.1000e-004		1.2000e-003	1.2000e-003		1.1000e-003	1.1000e-003	0.0000	9.8649	9.8649	3.1900e-003	0.0000	9.9447
Total	**3.5500e-003**	**0.0364**	**0.0255**	**1.1000e-004**	**1.4100e-003**	**1.2000e-003**	**2.6100e-003**	**2.1000e-004**	**1.1000e-003**	**1.3100e-003**	**0.0000**	**9.8649**	**9.8649**	**3.1900e-003**	**0.0000**	**9.9447**

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	5.7000e-003	0.2407	0.0341	6.1000e-004	0.0144	5.2000e-004	0.0149	3.8700e-003	4.9000e-004	4.3600e-003	0.0000	59.0441	59.0441	4.6500e-003	0.0000	59.1603
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.3000e-004	1.3400e-003	0.0000	3.8000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3242	0.3242	1.0000e-005	0.0000	0.3245
Total	**5.8700e-003**	**0.2408**	**0.0355**	**6.1000e-004**	**0.0148**	**5.2000e-004**	**0.0153**	**3.9700e-003**	**4.9000e-004**	**4.4600e-003**	**0.0000**	**59.3684**	**59.3684**	**4.6600e-003**	**0.0000**	**59.4848**

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					6.0000e-004	0.0000	6.0000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5500e-003	0.0364	0.0255	1.1000e-004		1.2000e-003	1.2000e-003		1.1000e-003	1.1000e-003	0.0000	9.8649	9.8649	3.1900e-003	0.0000	9.9447
Total	**3.5500e-003**	**0.0364**	**0.0255**	**1.1000e-004**	**6.0000e-004**	**1.2000e-003**	**1.8000e-003**	**9.0000e-005**	**1.1000e-003**	**1.1900e-003**	**0.0000**	**9.8649**	**9.8649**	**3.1900e-003**	**0.0000**	**9.9447**

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	5.7000e-003	0.2407	0.0341	6.1000e-004	0.0134	5.2000e-004	0.0139	3.6100e-003	4.9000e-004	4.1100e-003	0.0000	59.0441	59.0441	4.6500e-003	0.0000	59.1603
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.3000e-004	1.3400e-003	0.0000	3.5000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3242	0.3242	1.0000e-005	0.0000	0.3245
Total	**5.8700e-003**	**0.2408**	**0.0355**	**6.1000e-004**	**0.0137**	**5.2000e-004**	**0.0142**	**3.7000e-003**	**4.9000e-004**	**4.2100e-003**	**0.0000**	**59.3684**	**59.3684**	**4.6600e-003**	**0.0000**	**59.4848**

3.9 Rough Grading Soil Haul - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.4100e-003	0.0000	1.4100e-003	2.1000e-004	0.0000	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1500e-003	0.0107	8.7500e-003	4.0000e-005		3.6000e-004	3.6000e-004		3.3000e-004	3.3000e-004	0.0000	3.4263	3.4263	1.1100e-003	0.0000	3.4540
Total	**1.1500e-003**	**0.0107**	**8.7500e-003**	**4.0000e-005**	**1.4100e-003**	**3.6000e-004**	**1.7700e-003**	**2.1000e-004**	**3.3000e-004**	**5.4000e-004**	**0.0000**	**3.4263**	**3.4263**	**1.1100e-003**	**0.0000**	**3.4540**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8900e-003	0.0785	0.0114	2.1000e-004	0.0125	1.6000e-004	0.0127	3.1900e-003	1.5000e-004	3.3400e-003	0.0000	20.3521	20.3521	1.5900e-003	0.0000	20.3918
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.3000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.1092	0.1092	0.0000	0.0000	0.1093
Total	**1.9500e-003**	**0.0785**	**0.0118**	**2.1000e-004**	**0.0127**	**1.6000e-004**	**0.0128**	**3.2200e-003**	**1.5000e-004**	**3.3800e-003**	**0.0000**	**20.4613**	**20.4613**	**1.5900e-003**	**0.0000**	**20.5010**

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					6.0000e-004	0.0000	6.0000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1500e-003	0.0107	8.7500e-003	4.0000e-005		3.6000e-004	3.6000e-004		3.3000e-004	3.3000e-004	0.0000	3.4263	3.4263	1.1100e-003	0.0000	3.4540
Total	**1.1500e-003**	**0.0107**	**8.7500e-003**	**4.0000e-005**	**6.0000e-004**	**3.6000e-004**	**9.6000e-004**	**9.0000e-005**	**3.3000e-004**	**4.2000e-004**	**0.0000**	**3.4263**	**3.4263**	**1.1100e-003**	**0.0000**	**3.4540**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8900e-003	0.0785	0.0114	2.1000e-004	0.0115	1.6000e-004	0.0117	2.9400e-003	1.5000e-004	3.0900e-003	0.0000	20.3521	20.3521	1.5900e-003	0.0000	20.3918
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1092	0.1092	0.0000	0.0000	0.1093
Total	**1.9500e-003**	**0.0785**	**0.0118**	**2.1000e-004**	**0.0116**	**1.6000e-004**	**0.0118**	**2.9700e-003**	**1.5000e-004**	**3.1200e-003**	**0.0000**	**20.4613**	**20.4613**	**1.5900e-003**	**0.0000**	**20.5010**

3.10 Utility Trenching - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0304	0.3143	0.2222	8.2000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	71.6393	71.6393	0.0232	0.0000	72.2186
Total	**0.0304**	**0.3143**	**0.2222**	**8.2000e-004**		**0.0116**	**0.0116**		**0.0107**	**0.0107**	**0.0000**	**71.6393**	**71.6393**	**0.0232**	**0.0000**	**72.2186**

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	5.8000e-004	0.0214	4.3500e-003	6.0000e-005	1.3900e-003	4.0000e-005	1.4200e-003	4.0000e-004	4.0000e-005	4.4000e-004	0.0000	5.5872	5.5872	3.8000e-004	0.0000	5.5966
Worker	3.2400e-003	2.4500e-003	0.0251	7.0000e-005	7.7200e-003	5.0000e-005	7.7700e-003	2.0500e-003	5.0000e-005	2.1000e-003	0.0000	6.4057	6.4057	1.8000e-004	0.0000	6.4102
Total	**3.8200e-003**	**0.0239**	**0.0294**	**1.3000e-004**	**9.1100e-003**	**9.0000e-005**	**9.1900e-003**	**2.4500e-003**	**9.0000e-005**	**2.5400e-003**	**0.0000**	**11.9929**	**11.9929**	**5.6000e-004**	**0.0000**	**12.0068**

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	0.0304	0.3143	0.2222	8.2000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	71.6393	71.6393	0.0232	0.0000	72.2185
Total	**0.0304**	**0.3143**	**0.2222**	**8.2000e-004**		**0.0116**	**0.0116**		**0.0107**	**0.0107**	**0.0000**	**71.6393**	**71.6393**	**0.0232**	**0.0000**	**72.2185**

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	5.8000e-004	0.0214	4.3500e-003	6.0000e-005	1.3000e-003	4.0000e-005	1.3400e-003	3.8000e-004	4.0000e-005	4.1000e-004	0.0000	5.5872	5.5872	3.8000e-004	0.0000	5.5966
Worker	3.2400e-003	2.4500e-003	0.0251	7.0000e-005	7.1200e-003	5.0000e-005	7.1700e-003	1.9000e-003	5.0000e-005	1.9500e-003	0.0000	6.4057	6.4057	1.8000e-004	0.0000	6.4102
Total	**3.8200e-003**	**0.0239**	**0.0294**	**1.3000e-004**	**8.4200e-003**	**9.0000e-005**	**8.5100e-003**	**2.2800e-003**	**9.0000e-005**	**2.3600e-003**	**0.0000**	**11.9929**	**11.9929**	**5.6000e-004**	**0.0000**	**12.0068**

3.11 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1688	1.7330	1.1633	2.9200e-003		0.0894	0.0894		0.0822	0.0822	0.0000	256.4461	256.4461	0.0829	0.0000	258.5196
Total	**0.1688**	**1.7330**	**1.1633**	**2.9200e-003**		**0.0894**	**0.0894**		**0.0822**	**0.0822**	**0.0000**	**256.4461**	**256.4461**	**0.0829**	**0.0000**	**258.5196**

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	3.9100e-003	0.1436	0.0292	3.9000e-004	9.3100e-003	2.5000e-004	9.5500e-003	2.6900e-003	2.4000e-004	2.9200e-003	0.0000	37.4850	37.4850	2.5300e-003	0.0000	37.5481
Worker	0.0340	0.0257	0.2630	7.4000e-004	0.0809	5.3000e-004	0.0815	0.0215	4.9000e-004	0.0220	0.0000	67.1507	67.1507	1.8800e-003	0.0000	67.1976
Total	**0.0379**	**0.1693**	**0.2922**	**1.1300e-003**	**0.0902**	**7.8000e-004**	**0.0910**	**0.0242**	**7.3000e-004**	**0.0249**	**0.0000**	**104.6356**	**104.6356**	**4.4100e-003**	**0.0000**	**104.7458**

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	0.1688	1.7330	1.1633	2.9200e-003		0.0894	0.0894		0.0822	0.0822	0.0000	256.4458	256.4458	0.0829	0.0000	258.5193
Total	**0.1688**	**1.7330**	**1.1633**	**2.9200e-003**		**0.0894**	**0.0894**		**0.0822**	**0.0822**	**0.0000**	**256.4458**	**256.4458**	**0.0829**	**0.0000**	**258.5193**

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	3.9100e-003	0.1436	0.0292	3.9000e-004	8.7100e-003	2.5000e-004	8.9600e-003	2.5400e-003	2.4000e-004	2.7800e-003	0.0000	37.4850	37.4850	2.5300e-003	0.0000	37.5481
Worker	0.0340	0.0257	0.2630	7.4000e-004	0.0746	5.3000e-004	0.0751	0.0199	4.9000e-004	0.0204	0.0000	67.1507	67.1507	1.8800e-003	0.0000	67.1976
Total	**0.0379**	**0.1693**	**0.2922**	**1.1300e-003**	**0.0833**	**7.8000e-004**	**0.0841**	**0.0225**	**7.3000e-004**	**0.0232**	**0.0000**	**104.6356**	**104.6356**	**4.4100e-003**	**0.0000**	**104.7458**

3.12 Fine Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0149	0.0000	0.0149	1.6000e-003	0.0000	1.6000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0136	0.1677	0.0583	1.9000e-004		6.0300e-003	6.0300e-003		5.5500e-003	5.5500e-003	0.0000	16.4253	16.4253	5.3100e-003	0.0000	16.5581
Total	**0.0136**	**0.1677**	**0.0583**	**1.9000e-004**	**0.0149**	**6.0300e-003**	**0.0209**	**1.6000e-003**	**5.5500e-003**	**7.1500e-003**	**0.0000**	**16.4253**	**16.4253**	**5.3100e-003**	**0.0000**	**16.5581**

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	1.5000e-004	5.4500e-003	1.1100e-003	1.0000e-005	3.5000e-004	1.0000e-005	3.6000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.4222	1.4222	1.0000e-004	0.0000	1.4246
Worker	1.1600e-003	8.8000e-004	8.9800e-003	3.0000e-005	2.7600e-003	2.0000e-005	2.7800e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.2930	2.2930	6.0000e-005	0.0000	2.2946
Total	**1.3100e-003**	**6.3300e-003**	**0.0101**	**4.0000e-005**	**3.1100e-003**	**3.0000e-005**	**3.1400e-003**	**8.3000e-004**	**3.0000e-005**	**8.6000e-004**	**0.0000**	**3.7151**	**3.7151**	**1.6000e-004**	**0.0000**	**3.7191**

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					6.3500e-003	0.0000	6.3500e-003	6.9000e-004	0.0000	6.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0136	0.1677	0.0583	1.9000e-004		6.0300e-003	6.0300e-003		5.5500e-003	5.5500e-003	0.0000	16.4253	16.4253	5.3100e-003	0.0000	16.5581
Total	**0.0136**	**0.1677**	**0.0583**	**1.9000e-004**	**6.3500e-003**	**6.0300e-003**	**0.0124**	**6.9000e-004**	**5.5500e-003**	**6.2400e-003**	**0.0000**	**16.4253**	**16.4253**	**5.3100e-003**	**0.0000**	**16.5581**

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	1.5000e-004	5.4500e-003	1.1100e-003	1.0000e-005	3.3000e-004	1.0000e-005	3.4000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.4222	1.4222	1.0000e-004	0.0000	1.4246
Worker	1.1600e-003	8.8000e-004	8.9800e-003	3.0000e-005	2.5500e-003	2.0000e-005	2.5700e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.2930	2.2930	6.0000e-005	0.0000	2.2946
Total	**1.3100e-003**	**6.3300e-003**	**0.0101**	**4.0000e-005**	**2.8800e-003**	**3.0000e-005**	**2.9100e-003**	**7.8000e-004**	**3.0000e-005**	**8.1000e-004**	**0.0000**	**3.7151**	**3.7151**	**1.6000e-004**	**0.0000**	**3.7191**

3.13 Finishing/Landscaping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0207	0.2160	0.1985	4.4000e-004		9.5600e-003	9.5600e-003		8.8000e-003	8.8000e-003	0.0000	38.2456	38.2456	0.0124	0.0000	38.5548
Total	**0.0207**	**0.2160**	**0.1985**	**4.4000e-004**		**9.5600e-003**	**9.5600e-003**		**8.8000e-003**	**8.8000e-003**	**0.0000**	**38.2456**	**38.2456**	**0.0124**	**0.0000**	**38.5548**

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	4.9000e-004	0.0178	3.6200e-003	5.0000e-005	1.1500e-003	3.0000e-005	1.1800e-003	3.3000e-004	3.0000e-005	3.6000e-004	0.0000	4.6475	4.6475	3.1000e-004	0.0000	4.6554
Worker	2.8100e-003	2.1200e-003	0.0217	6.0000e-005	6.6900e-003	4.0000e-005	6.7300e-003	1.7800e-003	4.0000e-005	1.8200e-003	0.0000	5.5504	5.5504	1.6000e-004	0.0000	5.5543
Total	**3.3000e-003**	**0.0199**	**0.0254**	**1.1000e-004**	**7.8400e-003**	**7.0000e-005**	**7.9100e-003**	**2.1100e-003**	**7.0000e-005**	**2.1800e-003**	**0.0000**	**10.1979**	**10.1979**	**4.7000e-004**	**0.0000**	**10.2096**

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	0.0207	0.2160	0.1985	4.4000e-004		9.5600e-003	9.5600e-003		8.8000e-003	8.8000e-003	0.0000	38.2455	38.2455	0.0124	0.0000	38.5547
Total	**0.0207**	**0.2160**	**0.1985**	**4.4000e-004**		**9.5600e-003**	**9.5600e-003**		**8.8000e-003**	**8.8000e-003**	**0.0000**	**38.2455**	**38.2455**	**0.0124**	**0.0000**	**38.5547**

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	4.9000e-004	0.0178	3.6200e-003	5.0000e-005	1.0800e-003	3.0000e-005	1.1100e-003	3.1000e-004	3.0000e-005	3.4000e-004	0.0000	4.6475	4.6475	3.1000e-004	0.0000	4.6554
Worker	2.8100e-003	2.1200e-003	0.0217	6.0000e-005	6.1700e-003	4.0000e-005	6.2100e-003	1.6500e-003	4.0000e-005	1.6900e-003	0.0000	5.5504	5.5504	1.6000e-004	0.0000	5.5543
Total	**3.3000e-003**	**0.0199**	**0.0254**	**1.1000e-004**	**7.2500e-003**	**7.0000e-005**	**7.3200e-003**	**1.9600e-003**	**7.0000e-005**	**2.0300e-003**	**0.0000**	**10.1979**	**10.1979**	**4.7000e-004**	**0.0000**	**10.2096**

3.14 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.6600e-003	0.0546	0.0348	7.0000e-005		2.2700e-003	2.2700e-003		2.0900e-003	2.0900e-003	0.0000	6.4288	6.4288	2.0800e-003	0.0000	6.4808
Paving	0.0295					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0342**	**0.0546**	**0.0348**	**7.0000e-005**		**2.2700e-003**	**2.2700e-003**		**2.0900e-003**	**2.0900e-003**	**0.0000**	**6.4288**	**6.4288**	**2.0800e-003**	**0.0000**	**6.4808**

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	1.2700e-003	0.0467	9.5000e-003	1.3000e-004	3.0300e-003	8.0000e-005	3.1100e-003	8.7000e-004	8.0000e-005	9.5000e-004	0.0000	12.1902	12.1902	8.2000e-004	0.0000	12.2108
Worker	3.7000e-004	2.8000e-004	2.8500e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.8000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7279	0.7279	2.0000e-005	0.0000	0.7284
Total	**1.6400e-003**	**0.0470**	**0.0124**	**1.4000e-004**	**3.9100e-003**	**9.0000e-005**	**3.9900e-003**	**1.1000e-003**	**9.0000e-005**	**1.1900e-003**	**0.0000**	**12.9182**	**12.9182**	**8.4000e-004**	**0.0000**	**12.9392**

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	4.6600e-003	0.0546	0.0348	7.0000e-005		2.2700e-003	2.2700e-003		2.0900e-003	2.0900e-003	0.0000	6.4288	6.4288	2.0800e-003	0.0000	6.4808
Paving	0.0295					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0342**	**0.0546**	**0.0348**	**7.0000e-005**		**2.2700e-003**	**2.2700e-003**		**2.0900e-003**	**2.0900e-003**	**0.0000**	**6.4288**	**6.4288**	**2.0800e-003**	**0.0000**	**6.4808**

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	1.2700e-003	0.0467	9.5000e-003	1.3000e-004	2.8300e-003	8.0000e-005	2.9100e-003	8.3000e-004	8.0000e-005	9.0000e-004	0.0000	12.1902	12.1902	8.2000e-004	0.0000	12.2108
Worker	3.7000e-004	2.8000e-004	2.8500e-003	1.0000e-005	8.1000e-004	1.0000e-005	8.1000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7279	0.7279	2.0000e-005	0.0000	0.7284
Total	**1.6400e-003**	**0.0470**	**0.0124**	**1.4000e-004**	**3.6400e-003**	**9.0000e-005**	**3.7200e-003**	**1.0500e-003**	**9.0000e-005**	**1.1200e-003**	**0.0000**	**12.9182**	**12.9182**	**8.4000e-004**	**0.0000**	**12.9392**

3.15 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.7457					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9300e-003	0.0344	0.0409	7.0000e-005		2.1200e-003	2.1200e-003		2.1200e-003	2.1200e-003	0.0000	5.7448	5.7448	3.9000e-004	0.0000	5.7547
Total	**6.7506**	**0.0344**	**0.0409**	**7.0000e-005**		**2.1200e-003**	**2.1200e-003**		**2.1200e-003**	**2.1200e-003**	**0.0000**	**5.7448**	**5.7448**	**3.9000e-004**	**0.0000**	**5.7547**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2400e-003	9.4000e-004	9.6200e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.0000e-004	0.0000	2.4567	2.4567	7.0000e-005	0.0000	2.4585
Total	**1.2400e-003**	**9.4000e-004**	**9.6200e-003**	**3.0000e-005**	**2.9600e-003**	**2.0000e-005**	**2.9800e-003**	**7.9000e-004**	**2.0000e-005**	**8.0000e-004**	**0.0000**	**2.4567**	**2.4567**	**7.0000e-005**	**0.0000**	**2.4585**

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	6.7457					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9300e-003	0.0344	0.0409	7.0000e-005		2.1200e-003	2.1200e-003		2.1200e-003	2.1200e-003	0.0000	5.7448	5.7448	3.9000e-004	0.0000	5.7547
Total	**6.7506**	**0.0344**	**0.0409**	**7.0000e-005**		**2.1200e-003**	**2.1200e-003**		**2.1200e-003**	**2.1200e-003**	**0.0000**	**5.7448**	**5.7448**	**3.9000e-004**	**0.0000**	**5.7547**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2400e-003	9.4000e-004	9.6200e-003	3.0000e-005	2.7300e-003	2.0000e-005	2.7500e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.4567	2.4567	7.0000e-005	0.0000	2.4585
Total	**1.2400e-003**	**9.4000e-004**	**9.6200e-003**	**3.0000e-005**	**2.7300e-003**	**2.0000e-005**	**2.7500e-003**	**7.3000e-004**	**2.0000e-005**	**7.5000e-004**	**0.0000**	**2.4567**	**2.4567**	**7.0000e-005**	**0.0000**	**2.4585**

Phase 1 Construction

San Bernardino-South Coast County, 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
Asphalt Demo Haul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Demo Reprocessing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Demolition	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
Building Demo Haul	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 Demo Reprocessing	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 Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine 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
Finishing/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
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
Rough 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
Rough Grading Soil Haul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Utility Trenching	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

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
Concrete/Industrial Saws	Diesel	No Change	0	0	No Change	0.00
Cranes	Diesel	No Change	0	3	No Change	0.00
Crawler Tractors	Diesel	No Change	0	1	No Change	0.00
Crushing/Proc. Equipment	Diesel	No Change	0	2	No Change	0.00
Excavators	Diesel	No Change	0	8	No Change	0.00
Forklifts	Diesel	No Change	0	0	No Change	0.00
Generator Sets	Diesel	No Change	0	0	No Change	0.00
Graders	Diesel	No Change	0	5	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	0	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00
Rough Terrain Forklifts	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	2	No Change	0.00
Scrapers	Diesel	No Change	0	7	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	10	No Change	0.00
Welders	Diesel	No Change	0	0	No Change	0.00

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	4.93000E-003	3.43500E-002	4.08900E-002	7.00000E-005	2.12000E-003	2.12000E-003	0.00000E+000	5.74482E+000	5.74482E+000	3.90000E-004	0.00000E+000	5.75468E+000
Concrete/Industrial Saws	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	1.21300E-001	1.06718E+000	7.56980E-001	9.00000E-004	7.41600E-002	6.82300E-002	0.00000E+000	7.93794E+001	7.93794E+001	2.56700E-002	0.00000E+000	8.00213E+001
Crawler Tractors	8.69000E-003	1.03530E-001	6.06000E-002	1.40000E-004	4.04000E-003	3.71000E-003	0.00000E+000	1.25997E+001	1.25997E+001	4.07000E-003	0.00000E+000	1.27016E+001
Crushing/Proc. Equipment	3.77000E-003	2.41300E-002	1.44600E-002	7.00000E-005	8.50000E-004	8.50000E-004	0.00000E+000	6.91506E+000	6.91506E+000	3.00000E-004	0.00000E+000	6.92267E+000
Excavators	3.01400E-002	2.96040E-001	2.22370E-001	9.90000E-004	9.82000E-003	9.04000E-003	0.00000E+000	8.65802E+001	8.65802E+001	2.80000E-002	0.00000E+000	8.72802E+001

Forklifts	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
Generator Sets	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
Graders	2.83400E-002	3.73680E-001	1.09340E-001	4.10000E-004	1.18900E-002	1.09400E-002	0.00000E+000	3.55901E+001	3.55901E+001	1.15100E-002	0.00000E+000	3.58779E+001
Pavers	1.31000E-003	1.38100E-002	1.54600E-002	3.00000E-005	6.70000E-004	6.10000E-004	0.00000E+000	2.19750E+000	2.19750E+000	7.10000E-004	0.00000E+000	2.21526E+000
Paving Equipment	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
Rollers	1.04000E-003	1.05800E-002	1.03400E-002	1.00000E-005	6.50000E-004	6.00000E-004	0.00000E+000	1.26778E+000	1.26778E+000	4.10000E-004	0.00000E+000	1.27803E+000
Rough Terrain Forklifts	4.74900E-002	6.65770E-001	4.06350E-001	2.02000E-003	1.52200E-002	1.40000E-002	0.00000E+000	1.77067E+002	1.77067E+002	5.72700E-002	0.00000E+000	1.78498E+002
Rubber Tired Dozers	2.55100E-002	2.67770E-001	9.78300E-002	2.00000E-004	1.30900E-002	1.20400E-002	0.00000E+000	1.78675E+001	1.78675E+001	5.78000E-003	0.00000E+000	1.80119E+001
Scrapers	7.03200E-002	8.24030E-001	5.13630E-001	1.07000E-003	3.23900E-002	2.98000E-002	0.00000E+000	9.41846E+001	9.41846E+001	3.04600E-002	0.00000E+000	9.49461E+001
Tractors/Loaders/Backhoes	5.19000E-002	5.57150E-001	4.18990E-001	1.16000E-003	2.22800E-002	2.05000E-002	0.00000E+000	1.01745E+002	1.01745E+002	3.29100E-002	0.00000E+000	1.02568E+002
Welders	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

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	4.93000E-003	3.43500E-002	4.08900E-002	7.00000E-005	2.12000E-003	2.12000E-003	0.00000E+000	5.74481E+000	5.74481E+000	3.90000E-004	0.00000E+000	5.75467E+000
Concrete/Industrial Saws	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	1.21300E-001	1.06718E+000	7.56980E-001	9.00000E-004	7.41600E-002	6.82300E-002	0.00000E+000	7.93793E+001	7.93793E+001	2.56700E-002	0.00000E+000	8.00212E+001
Crawler Tractors	8.69000E-003	1.03530E-001	6.06000E-002	1.40000E-004	4.04000E-003	3.71000E-003	0.00000E+000	1.25997E+001	1.25997E+001	4.07000E-003	0.00000E+000	1.27016E+001
Crushing/Proc. Equipment	3.77000E-003	2.41300E-002	1.44600E-002	7.00000E-005	8.50000E-004	8.50000E-004	0.00000E+000	6.91505E+000	6.91505E+000	3.00000E-004	0.00000E+000	6.92266E+000
Excavators	3.01400E-002	2.96040E-001	2.22370E-001	9.90000E-004	9.82000E-003	9.04000E-003	0.00000E+000	8.65801E+001	8.65801E+001	2.80000E-002	0.00000E+000	8.72801E+001
Forklifts	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
Generator Sets	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
Graders	2.83400E-002	3.73670E-001	1.09340E-001	4.10000E-004	1.18900E-002	1.09400E-002	0.00000E+000	3.55900E+001	3.55900E+001	1.15100E-002	0.00000E+000	3.58778E+001
Pavers	1.31000E-003	1.38100E-002	1.54600E-002	3.00000E-005	6.70000E-004	6.10000E-004	0.00000E+000	2.19749E+000	2.19749E+000	7.10000E-004	0.00000E+000	2.21526E+000
Paving Equipment	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
Rollers	1.04000E-003	1.05800E-002	1.03400E-002	1.00000E-005	6.50000E-004	6.00000E-004	0.00000E+000	1.26778E+000	1.26778E+000	4.10000E-004	0.00000E+000	1.27803E+000
Rough Terrain Forklifts	4.74900E-002	6.65770E-001	4.06350E-001	2.02000E-003	1.52200E-002	1.40000E-002	0.00000E+000	1.77067E+002	1.77067E+002	5.72700E-002	0.00000E+000	1.78498E+002
Rubber Tired Dozers	2.55100E-002	2.67770E-001	9.78300E-002	2.00000E-004	1.30900E-002	1.20400E-002	0.00000E+000	1.78674E+001	1.78674E+001	5.78000E-003	0.00000E+000	1.80119E+001

Scrapers	7.03200E-002	8.24030E-001	5.13630E-001	1.07000E-003	3.23900E-002	2.98000E-002	0.00000E+000	9.41845E+001	9.41845E+001	3.04600E-002	0.00000E+000	9.49460E+001
Tractors/Loaders/Backhoes	5.19000E-002	5.57150E-001	4.18990E-001	1.16000E-003	2.22800E-002	2.05000E-002	0.00000E+000	1.01745E+002	1.01745E+002	3.29100E-002	0.00000E+000	1.02568E+002
Welders	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

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	1.74070E-006	1.74070E-006	0.00000E+000	0.00000E+000	1.73772E-006
Concrete/Industrial Saws	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	1.13380E-006	1.13380E-006	0.00000E+000	0.00000E+000	1.24967E-006
Crawler Tractors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	7.93670E-007	7.93670E-007	0.00000E+000	0.00000E+000	1.57461E-006
Crushing/Proc. Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.44612E-006	1.44612E-006	0.00000E+000	0.00000E+000	1.44453E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15500E-006	1.15500E-006	0.00000E+000	0.00000E+000	1.14573E-006
Forklifts	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
Generator Sets	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
Graders	0.00000E+000	2.67609E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.12391E-006	1.12391E-006	0.00000E+000	0.00000E+000	1.39362E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	4.55063E-006	4.55063E-006	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	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
Rollers	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
Rough Terrain Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18599E-006	1.18599E-006	0.00000E+000	0.00000E+000	1.17648E-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	1.11935E-006	1.11935E-006	0.00000E+000	0.00000E+000	1.11038E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16792E-006	1.16792E-006	0.00000E+000	0.00000E+000	1.15855E-006
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17942E-006	1.17942E-006	0.00000E+000	0.00000E+000	1.16996E-006
Welders	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

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		
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	9.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	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	0.08	0.08
Asphalt Demo Haul	Fugitive Dust	0.00	0.00	0.00	0.00	0.57	0.56
Asphalt Demo Haul	Roads	0.00	0.00	0.00	0.00	0.06	0.07
Asphalt Demo Reprocessing	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Demo Reprocessing	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Demolition	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Demolition	Roads	0.00	0.00	0.00	0.00	0.08	0.06
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.09	0.02	0.08	0.02	0.08	0.07
Building Demo Haul	Fugitive Dust	0.00	0.00	0.00	0.00	0.57	0.60
Building Demo Haul	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Demo Reprocessing	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Demo Reprocessing	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Demolition	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Demolition	Roads	0.00	0.00	0.00	0.00	0.07	0.06

Fine Grading	Fugitive Dust	0.01	0.00	0.01	0.00	0.57	0.57
Fine Grading	Roads	0.00	0.00	0.00	0.00	0.07	0.06
Finishing/Landscaping	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Finishing/Landscaping	Roads	0.01	0.00	0.01	0.00	0.08	0.07
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	0.07	0.05
Rough Grading	Fugitive Dust	0.42	0.13	0.18	0.05	0.57	0.57
Rough Grading	Roads	0.01	0.00	0.01	0.00	0.07	0.07
Rough Grading Soil Haul	Fugitive Dust	0.00	0.00	0.00	0.00	0.57	0.58
Rough Grading Soil Haul	Roads	0.03	0.01	0.03	0.01	0.08	0.07
Utility Trenching	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Utility Trenching	Roads	0.01	0.00	0.01	0.00	0.08	0.07

CalEEMod Output: Phase 2 Construction

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Phase 2 Construction

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	457.90	1000sqft	9.31	457,904.00	0
Other Asphalt Surfaces	7.90	Acre	7.90	344,070.00	0
Other Non-Asphalt Surfaces	3.99	Acre	3.99	0.00	0
Parking Lot	1.80	Acre	1.80	78,451.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions file in the AQ/GHG appendix.

Construction Phase - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment -

Off-road Equipment - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

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Off-road Equipment - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Trips and VMT - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Demolition -

Grading -

Architectural Coating - See assumptions file in the AQ/GHG appendix for details.

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186.

Area Coating -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	25,351.00	4,707.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	370.00	224.00
tblConstructionPhase	NumDays	20.00	5.00

tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	20.00	2.00
tblConstructionPhase	NumDays	35.00	8.00
tblConstructionPhase	NumDays	35.00	15.00
tblConstructionPhase	NumDays	35.00	19.00
tblConstructionPhase	NumDays	20.00	5.00
tblGrading	MaterialExported	0.00	15,000.00
tblLandUse	LandUseSquareFeet	344,124.00	344,070.00
tblLandUse	LandUseSquareFeet	173,804.40	0.00
tblLandUse	LandUseSquareFeet	78,408.00	78,451.00
tblLandUse	LotAcreage	10.51	9.31
tblOffRoadEquipment	HorsePower	231.00	110.00
tblOffRoadEquipment	HorsePower	231.00	93.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	130.00	173.00
tblOffRoadEquipment	HorsePower	80.00	110.00
tblOffRoadEquipment	HorsePower	247.00	196.00
tblOffRoadEquipment	HorsePower	367.00	240.00
tblOffRoadEquipment	HorsePower	367.00	270.00

tblOffRoadEquipment	HorsePower	212.00	257.00
tblOffRoadEquipment	HorsePower	85.00	325.00
tblOffRoadEquipment	HorsePower	85.00	325.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	100.00	238.00
tblOffRoadEquipment	HorsePower	97.00	260.00
tblOffRoadEquipment	HorsePower	97.00	127.00
tblOffRoadEquipment	HorsePower	97.00	230.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	HorsePower	97.00	260.00
tblOffRoadEquipment	HorsePower	97.00	230.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	LoadFactor	0.29	0.56
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	430.43	340.19
tblTripsAndVMT	HaulingTripLength	20.00	14.00
tblTripsAndVMT	HaulingTripLength	20.00	35.00
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	HaulingTripNumber	3.00	4.00
tblTripsAndVMT	HaulingTripNumber	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	1,875.00	2,143.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	144.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	104.00
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	10.00	12.00
tblTripsAndVMT	WorkerTripNumber	370.00	60.00
tblTripsAndVMT	WorkerTripNumber	8.00	36.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	74.00	12.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	3.00	12.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	5.00	12.00

tblTripsAndVMT	WorkerTripNumber	28.00	36.00
tblTripsAndVMT	WorkerTripNumber	13.00	32.00
tblWater	IndoorWaterUseRate	105,889,375.00	83,689,375.00

2.0 Emissions Summary

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					
2020	3.4116	30.1752	20.3541	0.0882	1.9105	0.9576	2.4116	0.3384	0.9039	1.1436	0.0000	8,984.0819	8,984.0819	1.9038	0.0000	9,031.6767
2022	104.3227	93.3865	48.2451	0.1767	21.6009	2.9518	24.5526	7.9052	2.7168	10.6221	0.0000	17,644.7918	17,644.7918	4.0886	0.0000	17,747.0060
Maximum	**104.3227**	**93.3865**	**48.2451**	**0.1767**	**21.6009**	**2.9518**	**24.5526**	**7.9052**	**2.7168**	**10.6221**	**0.0000**	**17,644.7918**	**17,644.7918**	**4.0886**	**0.0000**	**17,747.0060**

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					
2020	3.4116	30.1752	20.3541	0.0882	1.0231	0.9576	1.7246	0.2013	0.9039	1.0815	0.0000	8,984.0819	8,984.0819	1.9038	0.0000	9,031.6767
2022	104.3227	93.3865	48.2451	0.1767	9.9940	2.9518	12.9458	3.5894	2.7168	6.3062	0.0000	17,644.7918	17,644.7918	4.0886	0.0000	17,747.0060
Maximum	**104.3227**	**93.3865**	**48.2451**	**0.1767**	**9.9940**	**2.9518**	**12.9458**	**3.5894**	**2.7168**	**6.3062**	**0.0000**	**17,644.7918**	**17,644.7918**	**4.0886**	**0.0000**	**17,747.0060**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**53.14**	**0.00**	**45.59**	**54.02**	**0.00**	**37.21**	**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	Building Demolition	Demolition	10/5/2020	10/9/2020	5	5	
2	Building Demolition Debris Haul	Demolition	10/19/2020	10/19/2020	5	1	
3	Building Demolition Debris Reprocessing	Demolition	10/19/2020	10/19/2020	5	1	
4	Asphalt Demolition	Demolition	10/19/2020	11/13/2020	5	20	
5	Asphalt Demolition Debris Haul	Demolition	11/25/2020	11/25/2020	5	1	
6	Asphalt Demolition Debris Reprocessing	Demolition	11/25/2020	11/26/2020	5	2	
7	Rough Grading	Grading	1/3/2022	1/21/2022	5	15	
8	Rough Grading Soil Haul	Grading	1/3/2022	1/27/2022	5	19	
9	Utility Trenching	Trenching	1/24/2022	3/2/2022	5	28	
10	Building Construction	Building Construction	1/24/2022	12/1/2022	5	224	
11	Fine Grading	Grading	3/3/2022	3/14/2022	5	8	
12	Finishing/Landscaping	Trenching	8/1/2022	11/24/2022	5	84	
13	Architectural Coating	Architectural Coating	8/1/2022	9/30/2022	5	45	
14	Asphalt Paving	Paving	9/1/2022	9/7/2022	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 13.69

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 686,856; Non-Residential Outdoor: 228,952; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition	Excavators	2	8.00	300	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Building Demolition	Tractors/Loaders/Backhoes	2	8.00	260	0.37
Building Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition Debris Haul	Excavators	2	8.00	300	0.38
Building Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Building Demolition Debris Reprocessing	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition Debris Reprocessing	Crushing/Proc. Equipment	1	8.00	325	0.78
Building Demolition Debris Reprocessing	Excavators	0	8.00	158	0.38
Building Demolition Debris Reprocessing	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Excavators	2	8.00	300	0.38
Asphalt Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Tractors/Loaders/Backhoes	2	8.00	260	0.37
Asphalt Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Haul	Excavators	2	8.00	300	0.38
Asphalt Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition Debris Reprocessing	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Reprocessing	Crushing/Proc. Equipment	1	8.00	325	0.78
Asphalt Demolition Debris Reprocessing	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Reprocessing	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading	Crawler Tractors	1	8.00	257	0.43
Rough Grading	Excavators	0	8.00	158	0.38
Rough Grading	Graders	2	8.00	238	0.41

Rough Grading	Rubber Tired Dozers	2	8.00	196	0.40
Rough Grading	Scrapers	6	8.00	270	0.48
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Rough Grading Soil Haul	Excavators	1	8.00	300	0.38
Rough Grading Soil Haul	Graders	0	8.00	187	0.41
Rough Grading Soil Haul	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading Soil Haul	Scrapers	0	8.00	367	0.48
Rough Grading Soil Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	110	0.29
Building Construction	Cranes	2	8.00	93	0.56
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	2	8.00	238	0.40
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Utility Trenching	Excavators	2	8.00	300	0.38
Utility Trenching	Tractors/Loaders/Backhoes	2	8.00	230	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	93	0.37
Fine Grading	Excavators	0	8.00	158	0.38
Fine Grading	Graders	2	8.00	238	0.41
Fine Grading	Rubber Tired Dozers	0	8.00	247	0.40
Fine Grading	Scrapers	1	8.00	240	0.48
Fine Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	127	0.37
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	230	0.37
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	93	0.37

Asphalt Paving	Graders	1	8.00	238	0.41
Asphalt Paving	Pavers	1	8.00	173	0.42
Asphalt Paving	Paving Equipment	0	8.00	132	0.36
Asphalt Paving	Rollers	1	8.00	110	0.38

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
Building Demolition	4	12.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demolition Debris Haul	2	5.00	0.00	4.00	14.70	6.90	14.00	LD_Mix	HDT_Mix	HHDT
Building Demolition Debris Reprocessing	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	4	20.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Haul	2	12.00	0.00	8.00	14.70	6.90	35.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Reprocessing	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	11	36.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading Soil Haul	1	3.00	0.00	2,143.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	60.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	5	32.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	3	36.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	3	20.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	3	20.00	104.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building Demolition - 2020

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	1.2741	13.3787	9.0385	0.0360		0.4561	0.4561		0.4196	0.4196		3,480.0880	3,480.0880	1.1255		3,508.2263
Total	**1.2741**	**13.3787**	**9.0385**	**0.0360**		**0.4561**	**0.4561**		**0.4196**	**0.4196**		**3,480.0880**	**3,480.0880**	**1.1255**		**3,508.2263**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0243	0.8442	0.1645	2.1700e-003	0.0512	3.8800e-003	0.0551	0.0148	3.7200e-003	0.0185		228.8811	228.8811	0.0149		229.2528
Worker	0.0655	0.0420	0.5397	1.3600e-003	0.1341	8.8000e-004	0.1350	0.0356	8.1000e-004	0.0364		135.6101	135.6101	4.1400e-003		135.7136
Total	**0.0898**	**0.8863**	**0.7042**	**3.5300e-003**	**0.1854**	**4.7600e-003**	**0.1901**	**0.0503**	**4.5300e-003**	**0.0549**		**364.4912**	**364.4912**	**0.0190**		**364.9664**

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	1.2741	13.3787	9.0385	0.0360		0.4561	0.4561		0.4196	0.4196	0.0000	3,480.0880	3,480.0880	1.1255		3,508.2263
Total	**1.2741**	**13.3787**	**9.0385**	**0.0360**		**0.4561**	**0.4561**		**0.4196**	**0.4196**	**0.0000**	**3,480.0880**	**3,480.0880**	**1.1255**		**3,508.2263**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0243	0.8442	0.1645	2.1700e-003	0.0480	3.8800e-003	0.0518	0.0140	3.7200e-003	0.0177		228.8811	228.8811	0.0149		229.2528
Worker	0.0655	0.0420	0.5397	1.3600e-003	0.1236	8.8000e-004	0.1245	0.0330	8.1000e-004	0.0338		135.6101	135.6101	4.1400e-003		135.7136
Total	**0.0898**	**0.8863**	**0.7042**	**3.5300e-003**	**0.1716**	**4.7600e-003**	**0.1764**	**0.0470**	**4.5300e-003**	**0.0515**		**364.4912**	**364.4912**	**0.0190**		**364.9664**

3.3 Building Demolition Debris Haul - 2020

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					0.5992	0.0000	0.5992	0.0907	0.0000	0.0907			0.0000			0.0000
Off-Road	0.6168	6.3214	4.4298	0.0195		0.2083	0.2083		0.1916	0.1916		1,891.1674	1,891.1674	0.6116		1,906.4584
Total	**0.6168**	**6.3214**	**4.4298**	**0.0195**	**0.5992**	**0.2083**	**0.8074**	**0.0907**	**0.1916**	**0.2823**		**1,891.1674**	**1,891.1674**	**0.6116**		**1,906.4584**

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	0.0200	0.8249	0.1142	2.3900e-003	0.0490	2.1000e-003	0.0511	0.0134	2.0100e-003	0.0155		253.3031	253.3031	0.0161		253.7046
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0273	0.0175	0.2249	5.7000e-004	0.0559	3.7000e-004	0.0563	0.0148	3.4000e-004	0.0152		56.5042	56.5042	1.7200e-003		56.5473
Total	**0.0473**	**0.8424**	**0.3391**	**2.9600e-003**	**0.1049**	**2.4700e-003**	**0.1074**	**0.0283**	**2.3500e-003**	**0.0306**		**309.8073**	**309.8073**	**0.0178**		**310.2520**

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					0.2562	0.0000	0.2562	0.0388	0.0000	0.0388			0.0000			0.0000
Off-Road	0.6168	6.3214	4.4298	0.0195		0.2083	0.2083		0.1916	0.1916	0.0000	1,891.1674	1,891.1674	0.6116		1,906.4584
Total	**0.6168**	**6.3214**	**4.4298**	**0.0195**	**0.2562**	**0.2083**	**0.4644**	**0.0388**	**0.1916**	**0.2304**	**0.0000**	**1,891.1674**	**1,891.1674**	**0.6116**		**1,906.4584**

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	0.0200	0.8249	0.1142	2.3900e-003	0.0457	2.1000e-003	0.0478	0.0126	2.0100e-003	0.0146		253.3031	253.3031	0.0161		253.7046
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0273	0.0175	0.2249	5.7000e-004	0.0515	3.7000e-004	0.0519	0.0138	3.4000e-004	0.0141		56.5042	56.5042	1.7200e-003		56.5473
Total	**0.0473**	**0.8424**	**0.3391**	**2.9600e-003**	**0.0972**	**2.4700e-003**	**0.0997**	**0.0264**	**2.3500e-003**	**0.0287**		**309.8073**	**309.8073**	**0.0178**		**310.2520**

3.4 Building Demolition Debris Reprocessing - 2020

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	1.2563	8.0433	4.8197	0.0224		0.2817	0.2817		0.2817	0.2817		2,540.8504	2,540.8504	0.1118		2,543.6448
Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**		**0.2817**	**0.2817**		**0.2817**	**0.2817**		**2,540.8504**	**2,540.8504**	**0.1118**		**2,543.6448**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0655	0.0420	0.5397	1.3600e-003	0.1341	8.8000e-004	0.1350	0.0356	8.1000e-004	0.0364		135.6101	135.6101	4.1400e-003		135.7136
Total	**0.0655**	**0.0420**	**0.5397**	**1.3600e-003**	**0.1341**	**8.8000e-004**	**0.1350**	**0.0356**	**8.1000e-004**	**0.0364**		**135.6101**	**135.6101**	**4.1400e-003**		**135.7136**

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	1.2563	8.0433	4.8197	0.0224		0.2817	0.2817		0.2817	0.2817	0.0000	2,540.8504	2,540.8504	0.1118		2,543.6448
Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**		**0.2817**	**0.2817**		**0.2817**	**0.2817**	**0.0000**	**2,540.8504**	**2,540.8504**	**0.1118**		**2,543.6448**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0655	0.0420	0.5397	1.3600e-003	0.1236	8.8000e-004	0.1245	0.0330	8.1000e-004	0.0338		135.6101	135.6101	4.1400e-003		135.7136
Total	**0.0655**	**0.0420**	**0.5397**	**1.3600e-003**	**0.1236**	**8.8000e-004**	**0.1245**	**0.0330**	**8.1000e-004**	**0.0338**		**135.6101**	**135.6101**	**4.1400e-003**		**135.7136**

3.5 Asphalt Demolition - 2020

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	1.2741	13.3787	9.0385	0.0360		0.4561	0.4561		0.4196	0.4196		3,480.0880	3,480.0880	1.1255		3,508.2263
Total	**1.2741**	**13.3787**	**9.0385**	**0.0360**		**0.4561**	**0.4561**		**0.4196**	**0.4196**		**3,480.0880**	**3,480.0880**	**1.1255**		**3,508.2263**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0425	1.4774	0.2879	3.8000e-003	0.0897	6.8000e-003	0.0965	0.0258	6.5000e-003	0.0323		400.5419	400.5419	0.0260		401.1924
Worker	0.1092	0.0701	0.8995	2.2700e-003	0.2236	1.4600e-003	0.2250	0.0593	1.3500e-003	0.0606		226.0168	226.0168	6.9000e-003		226.1893
Total	**0.1517**	**1.5475**	**1.1874**	**6.0700e-003**	**0.3132**	**8.2600e-003**	**0.3215**	**0.0851**	**7.8500e-003**	**0.0930**		**626.5588**	**626.5588**	**0.0329**		**627.3817**

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	1.2741	13.3787	9.0385	0.0360		0.4561	0.4561		0.4196	0.4196	0.0000	3,480.0880	3,480.0880	1.1255		3,508.2263
Total	**1.2741**	**13.3787**	**9.0385**	**0.0360**		**0.4561**	**0.4561**		**0.4196**	**0.4196**	**0.0000**	**3,480.0880**	**3,480.0880**	**1.1255**		**3,508.2263**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0425	1.4774	0.2879	3.8000e-003	0.0839	6.8000e-003	0.0907	0.0244	6.5000e-003	0.0309		400.5419	400.5419	0.0260		401.1924
Worker	0.1092	0.0701	0.8995	2.2700e-003	0.2061	1.4600e-003	0.2075	0.0550	1.3500e-003	0.0563		226.0168	226.0168	6.9000e-003		226.1893
Total	**0.1517**	**1.5475**	**1.1874**	**6.0700e-003**	**0.2900**	**8.2600e-003**	**0.2983**	**0.0794**	**7.8500e-003**	**0.0873**		**626.5588**	**626.5588**	**0.0329**		**627.3817**

3.6 Asphalt Demolition Debris Haul - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.4979	0.0000	1.4979	0.2268	0.0000	0.2268			0.0000			0.0000
Off-Road	0.6168	6.3214	4.4298	0.0195		0.2083	0.2083		0.1916	0.1916		1,891.1674	1,891.1674	0.6116		1,906.4584
Total	**0.6168**	**6.3214**	**4.4298**	**0.0195**	**1.4979**	**0.2083**	**1.7062**	**0.2268**	**0.1916**	**0.4184**		**1,891.1674**	**1,891.1674**	**0.6116**		**1,906.4584**

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	0.0741	2.7730	0.4467	0.0100	0.2449	0.0101	0.2549	0.0671	9.6200e-003	0.0768		1,065.0672	1,065.0672	0.0455		1,066.2052
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0655	0.0420	0.5397	1.3600e-003	0.1341	8.8000e-004	0.1350	0.0356	8.1000e-004	0.0364		135.6101	135.6101	4.1400e-003		135.7136
Total	**0.1396**	**2.8150**	**0.9864**	**0.0114**	**0.3790**	**0.0109**	**0.3900**	**0.1027**	**0.0104**	**0.1131**		**1,200.6773**	**1,200.6773**	**0.0497**		**1,201.9188**

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					0.6404	0.0000	0.6404	0.0970	0.0000	0.0970			0.0000			0.0000
Off-Road	0.6168	6.3214	4.4298	0.0195		0.2083	0.2083		0.1916	0.1916	0.0000	1,891.1674	1,891.1674	0.6116		1,906.4584
Total	**0.6168**	**6.3214**	**4.4298**	**0.0195**	**0.6404**	**0.2083**	**0.8486**	**0.0970**	**0.1916**	**0.2886**	**0.0000**	**1,891.1674**	**1,891.1674**	**0.6116**		**1,906.4584**

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	0.0741	2.7730	0.4467	0.0100	0.2282	0.0101	0.2383	0.0630	9.6200e-003	0.0727		1,065.0672	1,065.0672	0.0455		1,066.2052
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0655	0.0420	0.5397	1.3600e-003	0.1236	8.8000e-004	0.1245	0.0330	8.1000e-004	0.0338		135.6101	135.6101	4.1400e-003		135.7136
Total	**0.1396**	**2.8150**	**0.9864**	**0.0114**	**0.3519**	**0.0109**	**0.3628**	**0.0960**	**0.0104**	**0.1065**		**1,200.6773**	**1,200.6773**	**0.0497**		**1,201.9188**

3.7 Asphalt Demolition Debris Reprocessing - 2020

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	1.2563	8.0433	4.8197	0.0224		0.2817	0.2817		0.2817	0.2817		2,540.8504	2,540.8504	0.1118		2,543.6448
Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**		**0.2817**	**0.2817**		**0.2817**	**0.2817**		**2,540.8504**	**2,540.8504**	**0.1118**		**2,543.6448**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0164	0.0105	0.1349	3.4000e-004	0.0335	2.2000e-004	0.0338	8.8900e-003	2.0000e-004	9.1000e-003		33.9025	33.9025	1.0300e-003		33.9284
Total	**0.0164**	**0.0105**	**0.1349**	**3.4000e-004**	**0.0335**	**2.2000e-004**	**0.0338**	**8.8900e-003**	**2.0000e-004**	**9.1000e-003**		**33.9025**	**33.9025**	**1.0300e-003**		**33.9284**

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	1.2563	8.0433	4.8197	0.0224		0.2817	0.2817		0.2817	0.2817	0.0000	2,540.8504	2,540.8504	0.1118		2,543.6448
Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**		**0.2817**	**0.2817**		**0.2817**	**0.2817**	**0.0000**	**2,540.8504**	**2,540.8504**	**0.1118**		**2,543.6448**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0164	0.0105	0.1349	3.4000e-004	0.0309	2.2000e-004	0.0311	8.2500e-003	2.0000e-004	8.4500e-003		33.9025	33.9025	1.0300e-003		33.9284
Total	**0.0164**	**0.0105**	**0.1349**	**3.4000e-004**	**0.0309**	**2.2000e-004**	**0.0311**	**8.2500e-003**	**2.0000e-004**	**8.4500e-003**		**33.9025**	**33.9025**	**1.0300e-003**		**33.9284**

3.8 Rough 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					19.9979	0.0000	19.9979	7.4793	0.0000	7.4793			0.0000			0.0000
Off-Road	6.4967	72.1659	41.9462	0.1070		2.8456	2.8456		2.6179	2.6179		10,359.6718	10,359.6718	3.3505		10,443.4350
Total	**6.4967**	**72.1659**	**41.9462**	**0.1070**	**19.9979**	**2.8456**	**22.8435**	**7.4793**	**2.6179**	**10.0972**		**10,359.6718**	**10,359.6718**	**3.3505**		**10,443.4350**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0338	1.2805	0.2349	3.7500e-003	0.0897	1.9400e-003	0.0916	0.0258	1.8600e-003	0.0277		395.2306	395.2306	0.0243		395.8383
Worker	0.1708	0.1017	1.3691	3.8100e-003	0.4024	2.5000e-003	0.4049	0.1067	2.3000e-003	0.1090		379.6569	379.6569	0.0101		379.9083
Total	**0.2046**	**1.3821**	**1.6040**	**7.5600e-003**	**0.4921**	**4.4400e-003**	**0.4965**	**0.1325**	**4.1600e-003**	**0.1367**		**774.8875**	**774.8875**	**0.0344**		**775.7465**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.5491	0.0000	8.5491	3.1974	0.0000	3.1974			0.0000			0.0000
Off-Road	6.4967	72.1659	41.9462	0.1070		2.8456	2.8456		2.6179	2.6179	0.0000	10,359.6718	10,359.6718	3.3505		10,443.4350
Total	**6.4967**	**72.1659**	**41.9462**	**0.1070**	**8.5491**	**2.8456**	**11.3947**	**3.1974**	**2.6179**	**5.8153**	**0.0000**	**10,359.6718**	**10,359.6718**	**3.3505**		**10,443.4350**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0338	1.2805	0.2349	3.7500e-003	0.0839	1.9400e-003	0.0859	0.0244	1.8600e-003	0.0263		395.2306	395.2306	0.0243		395.8383
Worker	0.1708	0.1017	1.3691	3.8100e-003	0.3709	2.5000e-003	0.3734	0.0990	2.3000e-003	0.1013		379.6569	379.6569	0.0101		379.9083
Total	**0.2046**	**1.3821**	**1.6040**	**7.5600e-003**	**0.4548**	**4.4400e-003**	**0.4593**	**0.1234**	**4.1600e-003**	**0.1276**		**774.8875**	**774.8875**	**0.0344**		**775.7465**

3.9 Rough Grading Soil Haul - 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					0.0893	0.0000	0.0893	0.0135	0.0000	0.0135			0.0000			0.0000
Off-Road	0.2572	2.0908	2.1338	9.7600e-003		0.0702	0.0702		0.0646	0.0646		944.4074	944.4074	0.3054		952.0434
Total	**0.2572**	**2.0908**	**2.1338**	**9.7600e-003**	**0.0893**	**0.0702**	**0.1595**	**0.0135**	**0.0646**	**0.0781**		**944.4074**	**944.4074**	**0.3054**		**952.0434**

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	0.4234	17.7392	2.4470	0.0521	0.9881	0.0313	1.0194	0.2710	0.0300	0.3010		5,534.1870	5,534.1870	0.3974		5,544.1220
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0142	8.4700e-003	0.1141	3.2000e-004	0.0335	2.1000e-004	0.0337	8.8900e-003	1.9000e-004	9.0800e-003		31.6381	31.6381	8.4000e-004		31.6590
Total	**0.4376**	**17.7477**	**2.5611**	**0.0524**	**1.0216**	**0.0315**	**1.0532**	**0.2799**	**0.0302**	**0.3101**		**5,565.8251**	**5,565.8251**	**0.3982**		**5,575.7811**

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					0.0382	0.0000	0.0382	5.7800e-003	0.0000	5.7800e-003			0.0000			0.0000
Off-Road	0.2572	2.0908	2.1338	9.7600e-003		0.0702	0.0702		0.0646	0.0646	0.0000	944.4074	944.4074	0.3054		952.0434
Total	**0.2572**	**2.0908**	**2.1338**	**9.7600e-003**	**0.0382**	**0.0702**	**0.1084**	**5.7800e-003**	**0.0646**	**0.0704**	**0.0000**	**944.4074**	**944.4074**	**0.3054**		**952.0434**

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	0.4234	17.7392	2.4470	0.0521	0.9210	0.0313	0.9523	0.2545	0.0300	0.2845		5,534.1870	5,534.1870	0.3974		5,544.1220
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0142	8.4700e-003	0.1141	3.2000e-004	0.0309	2.1000e-004	0.0311	8.2500e-003	1.9000e-004	8.4400e-003		31.6381	31.6381	8.4000e-004		31.6590
Total	**0.4376**	**17.7477**	**2.5611**	**0.0524**	**0.9519**	**0.0315**	**0.9834**	**0.2628**	**0.0302**	**0.2929**		**5,565.8251**	**5,565.8251**	**0.3982**		**5,575.7811**

3.10 Utility Trenching - 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	1.2337	11.6192	9.9028	0.0371		0.4280	0.4280		0.3938	0.3938		3,588.8551	3,588.8551	1.1607		3,617.8728
Total	**1.2337**	**11.6192**	**9.9028**	**0.0371**		**0.4280**	**0.4280**		**0.3938**	**0.3938**		**3,588.8551**	**3,588.8551**	**1.1607**		**3,617.8728**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0241	0.9146	0.1678	2.6800e-003	0.0641	1.3900e-003	0.0654	0.0184	1.3300e-003	0.0198		282.3076	282.3076	0.0174		282.7416
Worker	0.1518	0.0904	1.2170	3.3900e-003	0.3577	2.2200e-003	0.3599	0.0949	2.0400e-003	0.0969		337.4728	337.4728	8.9400e-003		337.6962
Total	**0.1760**	**1.0050**	**1.3848**	**6.0700e-003**	**0.4217**	**3.6100e-003**	**0.4253**	**0.1133**	**3.3700e-003**	**0.1167**		**619.7804**	**619.7804**	**0.0263**		**620.4379**

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	1.2337	11.6192	9.9028	0.0371		0.4280	0.4280		0.3938	0.3938	0.0000	3,588.8551	3,588.8551	1.1607		3,617.8728
Total	**1.2337**	**11.6192**	**9.9028**	**0.0371**		**0.4280**	**0.4280**		**0.3938**	**0.3938**	**0.0000**	**3,588.8551**	**3,588.8551**	**1.1607**		**3,617.8728**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0241	0.9146	0.1678	2.6800e-003	0.0599	1.3900e-003	0.0613	0.0174	1.3300e-003	0.0188		282.3076	282.3076	0.0174		282.7416
Worker	0.1518	0.0904	1.2170	3.3900e-003	0.3297	2.2200e-003	0.3319	0.0880	2.0400e-003	0.0900		337.4728	337.4728	8.9400e-003		337.6962
Total	**0.1760**	**1.0050**	**1.3848**	**6.0700e-003**	**0.3896**	**3.6100e-003**	**0.3933**	**0.1054**	**3.3700e-003**	**0.1088**		**619.7804**	**619.7804**	**0.0263**		**620.4379**

3.11 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	1.7844	17.7854	12.8535	0.0280		0.9547	0.9547		0.8783	0.8783		2,714.6667	2,714.6667	0.8780		2,736.6161
Total	**1.7844**	**17.7854**	**12.8535**	**0.0280**		**0.9547**	**0.9547**		**0.8783**	**0.8783**		**2,714.6667**	**2,714.6667**	**0.8780**		**2,736.6161**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8200e-003	0.1829	0.0336	5.4000e-004	0.0128	2.8000e-004	0.0131	3.6900e-003	2.7000e-004	3.9500e-003		56.4615	56.4615	3.4700e-003		56.5483
Worker	0.2847	0.1694	2.2818	6.3500e-003	0.6707	4.1600e-003	0.6748	0.1779	3.8300e-003	0.1817		632.7615	632.7615	0.0168		633.1804
Total	**0.2895**	**0.3524**	**2.3154**	**6.8900e-003**	**0.6835**	**4.4400e-003**	**0.6879**	**0.1816**	**4.1000e-003**	**0.1857**		**689.2230**	**689.2230**	**0.0202**		**689.7287**

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	1.7844	17.7854	12.8535	0.0280		0.9547	0.9547		0.8783	0.8783	0.0000	2,714.6667	2,714.6667	0.8780		2,736.6161
Total	**1.7844**	**17.7854**	**12.8535**	**0.0280**		**0.9547**	**0.9547**		**0.8783**	**0.8783**	**0.0000**	**2,714.6667**	**2,714.6667**	**0.8780**		**2,736.6161**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8200e-003	0.1829	0.0336	5.4000e-004	0.0120	2.8000e-004	0.0123	3.4900e-003	2.7000e-004	3.7500e-003		56.4615	56.4615	3.4700e-003		56.5483
Worker	0.2847	0.1694	2.2818	6.3500e-003	0.6182	4.1600e-003	0.6224	0.1650	3.8300e-003	0.1688		632.7615	632.7615	0.0168		633.1804
Total	**0.2895**	**0.3524**	**2.3154**	**6.8900e-003**	**0.6302**	**4.4400e-003**	**0.6346**	**0.1685**	**4.1000e-003**	**0.1726**		**689.2230**	**689.2230**	**0.0202**		**689.7287**

3.12 Fine 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					2.1210	0.0000	2.1210	0.2290	0.0000	0.2290			0.0000			0.0000
Off-Road	1.7500	20.8377	7.9233	0.0267		0.7507	0.7507		0.6907	0.6907		2,585.7971	2,585.7971	0.8363		2,606.7046
Total	**1.7500**	**20.8377**	**7.9233**	**0.0267**	**2.1210**	**0.7507**	**2.8717**	**0.2290**	**0.6907**	**0.9197**		**2,585.7971**	**2,585.7971**	**0.8363**		**2,606.7046**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0193	0.7317	0.1342	2.1400e-003	0.0512	1.1100e-003	0.0524	0.0148	1.0600e-003	0.0158		225.8461	225.8461	0.0139		226.1933
Worker	0.1708	0.1017	1.3691	3.8100e-003	0.4024	2.5000e-003	0.4049	0.1067	2.3000e-003	0.1090		379.6569	379.6569	0.0101		379.9083
Total	**0.1901**	**0.8334**	**1.5033**	**5.9500e-003**	**0.4536**	**3.6100e-003**	**0.4572**	**0.1215**	**3.3600e-003**	**0.1248**		**605.5029**	**605.5029**	**0.0240**		**606.1016**

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					0.9067	0.0000	0.9067	0.0979	0.0000	0.0979			0.0000			0.0000
Off-Road	1.7500	20.8377	7.9233	0.0267		0.7507	0.7507		0.6907	0.6907	0.0000	2,585.7971	2,585.7971	0.8363		2,606.7046
Total	**1.7500**	**20.8377**	**7.9233**	**0.0267**	**0.9067**	**0.7507**	**1.6574**	**0.0979**	**0.6907**	**0.7886**	**0.0000**	**2,585.7971**	**2,585.7971**	**0.8363**		**2,606.7046**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0193	0.7317	0.1342	2.1400e-003	0.0480	1.1100e-003	0.0491	0.0140	1.0600e-003	0.0150		225.8461	225.8461	0.0139		226.1933
Worker	0.1708	0.1017	1.3691	3.8100e-003	0.3709	2.5000e-003	0.3734	0.0990	2.3000e-003	0.1013		379.6569	379.6569	0.0101		379.9083
Total	**0.1901**	**0.8334**	**1.5033**	**5.9500e-003**	**0.4189**	**3.6100e-003**	**0.4225**	**0.1129**	**3.3600e-003**	**0.1163**		**605.5029**	**605.5029**	**0.0240**		**606.1016**

3.13 Finishing/Landscaping - 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	0.6043	5.9747	6.4425	0.0143		0.2609	0.2609		0.2400	0.2400		1,382.1236	1,382.1236	0.4470		1,393.2988
Total	**0.6043**	**5.9747**	**6.4425**	**0.0143**		**0.2609**	**0.2609**		**0.2400**	**0.2400**		**1,382.1236**	**1,382.1236**	**0.4470**		**1,393.2988**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0145	0.5488	0.1007	1.6100e-003	0.0384	8.3000e-004	0.0393	0.0111	8.0000e-004	0.0119		169.3846	169.3846	0.0104		169.6450
Worker	0.0949	0.0565	0.7606	2.1200e-003	0.2236	1.3900e-003	0.2249	0.0593	1.2800e-003	0.0606		210.9205	210.9205	5.5900e-003		211.0601
Total	**0.1094**	**0.6053**	**0.8613**	**3.7300e-003**	**0.2620**	**2.2200e-003**	**0.2642**	**0.0704**	**2.0800e-003**	**0.0724**		**380.3050**	**380.3050**	**0.0160**		**380.7051**

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	0.6043	5.9747	6.4425	0.0143		0.2609	0.2609		0.2400	0.2400	0.0000	1,382.1236	1,382.1236	0.4470		1,393.2988
Total	**0.6043**	**5.9747**	**6.4425**	**0.0143**		**0.2609**	**0.2609**		**0.2400**	**0.2400**	**0.0000**	**1,382.1236**	**1,382.1236**	**0.4470**		**1,393.2988**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0145	0.5488	0.1007	1.6100e-003	0.0360	8.3000e-004	0.0368	0.0105	8.0000e-004	0.0113		169.3846	169.3846	0.0104		169.6450
Worker	0.0949	0.0565	0.7606	2.1200e-003	0.2061	1.3900e-003	0.2075	0.0550	1.2800e-003	0.0563		210.9205	210.9205	5.5900e-003		211.0601
Total	**0.1094**	**0.6053**	**0.8613**	**3.7300e-003**	**0.2420**	**2.2200e-003**	**0.2443**	**0.0655**	**2.0800e-003**	**0.0675**		**380.3050**	**380.3050**	**0.0160**		**380.7051**

3.14 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	94.8131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**95.0176**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0569	0.0339	0.4564	1.2700e-003	0.1341	8.3000e-004	0.1350	0.0356	7.7000e-004	0.0363		126.5523	126.5523	3.3500e-003		126.6361
Total	**0.0569**	**0.0339**	**0.4564**	**1.2700e-003**	**0.1341**	**8.3000e-004**	**0.1350**	**0.0356**	**7.7000e-004**	**0.0363**		**126.5523**	**126.5523**	**3.3500e-003**		**126.6361**

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	94.8131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**95.0176**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0569	0.0339	0.4564	1.2700e-003	0.1236	8.3000e-004	0.1245	0.0330	7.7000e-004	0.0338		126.5523	126.5523	3.3500e-003		126.6361
Total	**0.0569**	**0.0339**	**0.4564**	**1.2700e-003**	**0.1236**	**8.3000e-004**	**0.1245**	**0.0330**	**7.7000e-004**	**0.0338**		**126.5523**	**126.5523**	**3.3500e-003**		**126.6361**

3.15 Asphalt 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	1.0321	11.8577	8.5871	0.0183		0.4823	0.4823		0.4437	0.4437		1,771.4092	1,771.4092	0.5729		1,785.7319
Paving	5.0828					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**6.1149**	**11.8577**	**8.5871**	**0.0183**		**0.4823**	**0.4823**		**0.4437**	**0.4437**		**1,771.4092**	**1,771.4092**	**0.5729**		**1,785.7319**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2507	9.5121	1.7449	0.0278	0.6661	0.0144	0.6805	0.1918	0.0138	0.2056		2,935.9989	2,935.9989	0.1806		2,940.5130
Worker	0.0949	0.0565	0.7606	2.1200e-003	0.2236	1.3900e-003	0.2249	0.0593	1.2800e-003	0.0606		210.9205	210.9205	5.5900e-003		211.0601
Total	**0.3456**	**9.5685**	**2.5055**	**0.0299**	**0.8896**	**0.0158**	**0.9055**	**0.2511**	**0.0151**	**0.2662**		**3,146.9193**	**3,146.9193**	**0.1862**		**3,151.5732**

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	1.0321	11.8577	8.5871	0.0183		0.4823	0.4823		0.4437	0.4437	0.0000	1,771.4092	1,771.4092	0.5729		1,785.7319
Paving	5.0828					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**6.1149**	**11.8577**	**8.5871**	**0.0183**		**0.4823**	**0.4823**		**0.4437**	**0.4437**	**0.0000**	**1,771.4092**	**1,771.4092**	**0.5729**		**1,785.7319**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2507	9.5121	1.7449	0.0278	0.6234	0.0144	0.6378	0.1813	0.0138	0.1951		2,935.9989	2,935.9989	0.1806		2,940.5130
Worker	0.0949	0.0565	0.7606	2.1200e-003	0.2061	1.3900e-003	0.2075	0.0550	1.2800e-003	0.0563		210.9205	210.9205	5.5900e-003		211.0601
Total	**0.3456**	**9.5685**	**2.5055**	**0.0299**	**0.8295**	**0.0158**	**0.8453**	**0.2363**	**0.0151**	**0.2514**		**3,146.9193**	**3,146.9193**	**0.1862**		**3,151.5732**

Phase 2 Construction

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	457.90	1000sqft	9.31	457,904.00	0
Other Asphalt Surfaces	7.90	Acre	7.90	344,070.00	0
Other Non-Asphalt Surfaces	3.99	Acre	3.99	0.00	0
Parking Lot	1.80	Acre	1.80	78,451.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions file in the AQ/GHG appendix.

Construction Phase - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment -

Off-road Equipment - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

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Off-road Equipment - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Trips and VMT - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Demolition -

Grading -

Architectural Coating - See assumptions file in the AQ/GHG appendix for details.

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186.

Area Coating -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	25,351.00	4,707.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	370.00	224.00
tblConstructionPhase	NumDays	20.00	5.00

tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	20.00	2.00
tblConstructionPhase	NumDays	35.00	8.00
tblConstructionPhase	NumDays	35.00	15.00
tblConstructionPhase	NumDays	35.00	19.00
tblConstructionPhase	NumDays	20.00	5.00
tblGrading	MaterialExported	0.00	15,000.00
tblLandUse	LandUseSquareFeet	344,124.00	344,070.00
tblLandUse	LandUseSquareFeet	173,804.40	0.00
tblLandUse	LandUseSquareFeet	78,408.00	78,451.00
tblLandUse	LotAcreage	10.51	9.31
tblOffRoadEquipment	HorsePower	231.00	110.00
tblOffRoadEquipment	HorsePower	231.00	93.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	130.00	173.00
tblOffRoadEquipment	HorsePower	80.00	110.00
tblOffRoadEquipment	HorsePower	247.00	196.00
tblOffRoadEquipment	HorsePower	367.00	240.00
tblOffRoadEquipment	HorsePower	367.00	270.00

tblOffRoadEquipment	HorsePower	212.00	257.00
tblOffRoadEquipment	HorsePower	85.00	325.00
tblOffRoadEquipment	HorsePower	85.00	325.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	100.00	238.00
tblOffRoadEquipment	HorsePower	97.00	260.00
tblOffRoadEquipment	HorsePower	97.00	127.00
tblOffRoadEquipment	HorsePower	97.00	230.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	HorsePower	97.00	260.00
tblOffRoadEquipment	HorsePower	97.00	230.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	LoadFactor	0.29	0.56
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	430.43	340.19
tblTripsAndVMT	HaulingTripLength	20.00	14.00
tblTripsAndVMT	HaulingTripLength	20.00	35.00
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	HaulingTripNumber	3.00	4.00
tblTripsAndVMT	HaulingTripNumber	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	1,875.00	2,143.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	144.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	104.00
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	10.00	12.00
tblTripsAndVMT	WorkerTripNumber	370.00	60.00
tblTripsAndVMT	WorkerTripNumber	8.00	36.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	74.00	12.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	3.00	12.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	5.00	12.00

tblTripsAndVMT	WorkerTripNumber	28.00	36.00
tblTripsAndVMT	WorkerTripNumber	13.00	32.00
tblWater	IndoorWaterUseRate	105,889,375.00	83,689,375.00

2.0 Emissions Summary

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					
2020	3.4152	30.1678	20.1247	0.0876	1.9105	0.9578	2.4117	0.3384	0.9040	1.1437	0.0000	8,916.8115	8,916.8115	1.9065	0.0000	8,964.4741
2022	104.3419	93.1472	48.5644	0.1739	21.6009	2.9527	24.5536	7.9052	2.7178	10.6230	0.0000	17,343.2321	17,343.2321	4.1320	0.0000	17,446.5330
Maximum	**104.3419**	**93.1472**	**48.5644**	**0.1739**	**21.6009**	**2.9527**	**24.5536**	**7.9052**	**2.7178**	**10.6230**	**0.0000**	**17,343.2321**	**17,343.2321**	**4.1320**	**0.0000**	**17,446.5330**

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					
2020	3.4152	30.1678	20.1247	0.0876	1.0231	0.9578	1.7248	0.2013	0.9040	1.0816	0.0000	8,916.8115	8,916.8115	1.9065	0.0000	8,964.4741
2022	104.3419	93.1472	48.5644	0.1739	9.9940	2.9527	12.9467	3.5894	2.7178	6.3071	0.0000	17,343.2321	17,343.2321	4.1320	0.0000	17,446.5330
Maximum	**104.3419**	**93.1472**	**48.5644**	**0.1739**	**9.9940**	**2.9527**	**12.9467**	**3.5894**	**2.7178**	**6.3071**	**0.0000**	**17,343.2321**	**17,343.2321**	**4.1320**	**0.0000**	**17,446.5330**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**53.14**	**0.00**	**45.59**	**54.02**	**0.00**	**37.21**	**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	Building Demolition	Demolition	10/5/2020	10/9/2020	5	5	
2	Building Demolition Debris Haul	Demolition	10/19/2020	10/19/2020	5	1	
3	Building Demolition Debris Reprocessing	Demolition	10/19/2020	10/19/2020	5	1	
4	Asphalt Demolition	Demolition	10/19/2020	11/13/2020	5	20	
5	Asphalt Demolition Debris Haul	Demolition	11/25/2020	11/25/2020	5	1	
6	Asphalt Demolition Debris Reprocessing	Demolition	11/25/2020	11/26/2020	5	2	
7	Rough Grading	Grading	1/3/2022	1/21/2022	5	15	
8	Rough Grading Soil Haul	Grading	1/3/2022	1/27/2022	5	19	
9	Utility Trenching	Trenching	1/24/2022	3/2/2022	5	28	
10	Building Construction	Building Construction	1/24/2022	12/1/2022	5	224	
11	Fine Grading	Grading	3/3/2022	3/14/2022	5	8	
12	Finishing/Landscaping	Trenching	8/1/2022	11/24/2022	5	84	
13	Architectural Coating	Architectural Coating	8/1/2022	9/30/2022	5	45	
14	Asphalt Paving	Paving	9/1/2022	9/7/2022	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 13.69

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 686,856; Non-Residential Outdoor: 228,952; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition	Excavators	2	8.00	300	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Building Demolition	Tractors/Loaders/Backhoes	2	8.00	260	0.37
Building Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition Debris Haul	Excavators	2	8.00	300	0.38
Building Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Building Demolition Debris Reprocessing	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition Debris Reprocessing	Crushing/Proc. Equipment	1	8.00	325	0.78
Building Demolition Debris Reprocessing	Excavators	0	8.00	158	0.38
Building Demolition Debris Reprocessing	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Excavators	2	8.00	300	0.38
Asphalt Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Tractors/Loaders/Backhoes	2	8.00	260	0.37
Asphalt Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Haul	Excavators	2	8.00	300	0.38
Asphalt Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition Debris Reprocessing	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Reprocessing	Crushing/Proc. Equipment	1	8.00	325	0.78
Asphalt Demolition Debris Reprocessing	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Reprocessing	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading	Crawler Tractors	1	8.00	257	0.43
Rough Grading	Excavators	0	8.00	158	0.38
Rough Grading	Graders	2	8.00	238	0.41

Rough Grading	Rubber Tired Dozers	2	8.00	196	0.40
Rough Grading	Scrapers	6	8.00	270	0.48
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Rough Grading Soil Haul	Excavators	1	8.00	300	0.38
Rough Grading Soil Haul	Graders	0	8.00	187	0.41
Rough Grading Soil Haul	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading Soil Haul	Scrapers	0	8.00	367	0.48
Rough Grading Soil Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	110	0.29
Building Construction	Cranes	2	8.00	93	0.56
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	2	8.00	238	0.40
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Utility Trenching	Excavators	2	8.00	300	0.38
Utility Trenching	Tractors/Loaders/Backhoes	2	8.00	230	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	93	0.37
Fine Grading	Excavators	0	8.00	158	0.38
Fine Grading	Graders	2	8.00	238	0.41
Fine Grading	Rubber Tired Dozers	0	8.00	247	0.40
Fine Grading	Scrapers	1	8.00	240	0.48
Fine Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	127	0.37
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	230	0.37
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	93	0.37

Asphalt Paving	Graders	1	8.00	238	0.41
Asphalt Paving	Pavers	1	8.00	173	0.42
Asphalt Paving	Paving Equipment	0	8.00	132	0.36
Asphalt Paving	Rollers	1	8.00	110	0.38

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
Building Demolition	4	12.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demolition Debris Haul	2	5.00	0.00	4.00	14.70	6.90	14.00	LD_Mix	HDT_Mix	HHDT
Building Demolition Debris Reprocessing	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	4	20.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Haul	2	12.00	0.00	8.00	14.70	6.90	35.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Reprocessing	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	11	36.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading Soil Haul	1	3.00	0.00	2,143.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	60.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	5	32.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	3	36.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	3	20.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	3	20.00	104.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building Demolition - 2020

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	1.2741	13.3787	9.0385	0.0360		0.4561	0.4561		0.4196	0.4196		3,480.0880	3,480.0880	1.1255		3,508.2263
Total	**1.2741**	**13.3787**	**9.0385**	**0.0360**		**0.4561**	**0.4561**		**0.4196**	**0.4196**		**3,480.0880**	**3,480.0880**	**1.1255**		**3,508.2263**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0256	0.8374	0.1907	2.0900e-003	0.0512	3.9300e-003	0.0552	0.0148	3.7600e-003	0.0185		220.0001	220.0001	0.0164		220.4110
Worker	0.0655	0.0442	0.4436	1.2200e-003	0.1341	8.8000e-004	0.1350	0.0356	8.1000e-004	0.0364		121.6500	121.6500	3.6300e-003		121.7408
Total	**0.0911**	**0.8816**	**0.6342**	**3.3100e-003**	**0.1854**	**4.8100e-003**	**0.1902**	**0.0503**	**4.5700e-003**	**0.0549**		**341.6501**	**341.6501**	**0.0201**		**342.1518**

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	1.2741	13.3787	9.0385	0.0360		0.4561	0.4561		0.4196	0.4196	0.0000	3,480.0880	3,480.0880	1.1255		3,508.2263
Total	**1.2741**	**13.3787**	**9.0385**	**0.0360**		**0.4561**	**0.4561**		**0.4196**	**0.4196**	**0.0000**	**3,480.0880**	**3,480.0880**	**1.1255**		**3,508.2263**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0256	0.8374	0.1907	2.0900e-003	0.0480	3.9300e-003	0.0519	0.0140	3.7600e-003	0.0177		220.0001	220.0001	0.0164		220.4110
Worker	0.0655	0.0442	0.4436	1.2200e-003	0.1236	8.8000e-004	0.1245	0.0330	8.1000e-004	0.0338		121.6500	121.6500	3.6300e-003		121.7408
Total	**0.0911**	**0.8816**	**0.6342**	**3.3100e-003**	**0.1716**	**4.8100e-003**	**0.1764**	**0.0470**	**4.5700e-003**	**0.0515**		**341.6501**	**341.6501**	**0.0201**		**342.1518**

3.3 Building Demolition Debris Haul - 2020

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					0.5992	0.0000	0.5992	0.0907	0.0000	0.0907			0.0000			0.0000
Off-Road	0.6168	6.3214	4.4298	0.0195		0.2083	0.2083		0.1916	0.1916		1,891.1674	1,891.1674	0.6116		1,906.4584
Total	**0.6168**	**6.3214**	**4.4298**	**0.0195**	**0.5992**	**0.2083**	**0.8074**	**0.0907**	**0.1916**	**0.2823**		**1,891.1674**	**1,891.1674**	**0.6116**		**1,906.4584**

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	0.0211	0.8227	0.1354	2.3000e-003	0.0490	2.1400e-003	0.0512	0.0134	2.0500e-003	0.0155		244.6182	244.6182	0.0176		245.0580
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0273	0.0184	0.1848	5.1000e-004	0.0559	3.7000e-004	0.0563	0.0148	3.4000e-004	0.0152		50.6875	50.6875	1.5100e-003		50.7253
Total	**0.0484**	**0.8411**	**0.3202**	**2.8100e-003**	**0.1049**	**2.5100e-003**	**0.1074**	**0.0283**	**2.3900e-003**	**0.0307**		**295.3056**	**295.3056**	**0.0191**		**295.7833**

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					0.2562	0.0000	0.2562	0.0388	0.0000	0.0388			0.0000			0.0000
Off-Road	0.6168	6.3214	4.4298	0.0195		0.2083	0.2083		0.1916	0.1916	0.0000	1,891.1674	1,891.1674	0.6116		1,906.4584
Total	**0.6168**	**6.3214**	**4.4298**	**0.0195**	**0.2562**	**0.2083**	**0.4644**	**0.0388**	**0.1916**	**0.2304**	**0.0000**	**1,891.1674**	**1,891.1674**	**0.6116**		**1,906.4584**

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	0.0211	0.8227	0.1354	2.3000e-003	0.0457	2.1400e-003	0.0478	0.0126	2.0500e-003	0.0147		244.6182	244.6182	0.0176		245.0580
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0273	0.0184	0.1848	5.1000e-004	0.0515	3.7000e-004	0.0519	0.0138	3.4000e-004	0.0141		50.6875	50.6875	1.5100e-003		50.7253
Total	**0.0484**	**0.8411**	**0.3202**	**2.8100e-003**	**0.0972**	**2.5100e-003**	**0.0997**	**0.0264**	**2.3900e-003**	**0.0288**		**295.3056**	**295.3056**	**0.0191**		**295.7833**

3.4 Building Demolition Debris Reprocessing - 2020

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	1.2563	8.0433	4.8197	0.0224		0.2817	0.2817		0.2817	0.2817		2,540.8504	2,540.8504	0.1118		2,543.6448
Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**		**0.2817**	**0.2817**		**0.2817**	**0.2817**		**2,540.8504**	**2,540.8504**	**0.1118**		**2,543.6448**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0655	0.0442	0.4436	1.2200e-003	0.1341	8.8000e-004	0.1350	0.0356	8.1000e-004	0.0364		121.6500	121.6500	3.6300e-003		121.7408
Total	**0.0655**	**0.0442**	**0.4436**	**1.2200e-003**	**0.1341**	**8.8000e-004**	**0.1350**	**0.0356**	**8.1000e-004**	**0.0364**		**121.6500**	**121.6500**	**3.6300e-003**		**121.7408**

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	1.2563	8.0433	4.8197	0.0224		0.2817	0.2817		0.2817	0.2817	0.0000	2,540.8504	2,540.8504	0.1118		2,543.6448
Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**		**0.2817**	**0.2817**		**0.2817**	**0.2817**	**0.0000**	**2,540.8504**	**2,540.8504**	**0.1118**		**2,543.6448**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0655	0.0442	0.4436	1.2200e-003	0.1236	8.8000e-004	0.1245	0.0330	8.1000e-004	0.0338		121.6500	121.6500	3.6300e-003		121.7408
Total	**0.0655**	**0.0442**	**0.4436**	**1.2200e-003**	**0.1236**	**8.8000e-004**	**0.1245**	**0.0330**	**8.1000e-004**	**0.0338**		**121.6500**	**121.6500**	**3.6300e-003**		**121.7408**

3.5 Asphalt Demolition - 2020

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	1.2741	13.3787	9.0385	0.0360		0.4561	0.4561		0.4196	0.4196		3,480.0880	3,480.0880	1.1255		3,508.2263
Total	**1.2741**	**13.3787**	**9.0385**	**0.0360**		**0.4561**	**0.4561**		**0.4196**	**0.4196**		**3,480.0880**	**3,480.0880**	**1.1255**		**3,508.2263**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0448	1.4654	0.3337	3.6500e-003	0.0897	6.8800e-003	0.0966	0.0258	6.5900e-003	0.0324		385.0002	385.0002	0.0288		385.7193
Worker	0.1092	0.0737	0.7393	2.0400e-003	0.2236	1.4600e-003	0.2250	0.0593	1.3500e-003	0.0606		202.7500	202.7500	6.0500e-003		202.9013
Total	**0.1540**	**1.5391**	**1.0730**	**5.6900e-003**	**0.3132**	**8.3400e-003**	**0.3216**	**0.0851**	**7.9400e-003**	**0.0930**		**587.7501**	**587.7501**	**0.0348**		**588.6205**

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	1.2741	13.3787	9.0385	0.0360		0.4561	0.4561		0.4196	0.4196	0.0000	3,480.0880	3,480.0880	1.1255		3,508.2263
Total	**1.2741**	**13.3787**	**9.0385**	**0.0360**		**0.4561**	**0.4561**		**0.4196**	**0.4196**	**0.0000**	**3,480.0880**	**3,480.0880**	**1.1255**		**3,508.2263**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0448	1.4654	0.3337	3.6500e-003	0.0839	6.8800e-003	0.0908	0.0244	6.5900e-003	0.0310		385.0002	385.0002	0.0288		385.7193
Worker	0.1092	0.0737	0.7393	2.0400e-003	0.2061	1.4600e-003	0.2075	0.0550	1.3500e-003	0.0563		202.7500	202.7500	6.0500e-003		202.9013
Total	**0.1540**	**1.5391**	**1.0730**	**5.6900e-003**	**0.2900**	**8.3400e-003**	**0.2983**	**0.0794**	**7.9400e-003**	**0.0873**		**587.7501**	**587.7501**	**0.0348**		**588.6205**

3.6 Asphalt Demolition Debris Haul - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.4979	0.0000	1.4979	0.2268	0.0000	0.2268			0.0000			0.0000
Off-Road	0.6168	6.3214	4.4298	0.0195		0.2083	0.2083		0.1916	0.1916		1,891.1674	1,891.1674	0.6116		1,906.4584
Total	**0.6168**	**6.3214**	**4.4298**	**0.0195**	**1.4979**	**0.2083**	**1.7062**	**0.2268**	**0.1916**	**0.4184**		**1,891.1674**	**1,891.1674**	**0.6116**		**1,906.4584**

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	0.0764	2.8206	0.4878	9.8700e-003	0.2449	0.0101	0.2550	0.0671	9.7000e-003	0.0768		1,047.6973	1,047.6973	0.0486		1,048.9117
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0655	0.0442	0.4436	1.2200e-003	0.1341	8.8000e-004	0.1350	0.0356	8.1000e-004	0.0364		121.6500	121.6500	3.6300e-003		121.7408
Total	**0.1419**	**2.8649**	**0.9313**	**0.0111**	**0.3790**	**0.0110**	**0.3900**	**0.1027**	**0.0105**	**0.1132**		**1,169.3473**	**1,169.3473**	**0.0522**		**1,170.6524**

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					0.6404	0.0000	0.6404	0.0970	0.0000	0.0970			0.0000			0.0000
Off-Road	0.6168	6.3214	4.4298	0.0195		0.2083	0.2083		0.1916	0.1916	0.0000	1,891.1674	1,891.1674	0.6116		1,906.4584
Total	**0.6168**	**6.3214**	**4.4298**	**0.0195**	**0.6404**	**0.2083**	**0.8486**	**0.0970**	**0.1916**	**0.2886**	**0.0000**	**1,891.1674**	**1,891.1674**	**0.6116**		**1,906.4584**

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	0.0764	2.8206	0.4878	9.8700e-003	0.2282	0.0101	0.2384	0.0630	9.7000e-003	0.0727		1,047.6973	1,047.6973	0.0486		1,048.9117
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0655	0.0442	0.4436	1.2200e-003	0.1236	8.8000e-004	0.1245	0.0330	8.1000e-004	0.0338		121.6500	121.6500	3.6300e-003		121.7408
Total	**0.1419**	**2.8649**	**0.9313**	**0.0111**	**0.3519**	**0.0110**	**0.3629**	**0.0960**	**0.0105**	**0.1066**		**1,169.3473**	**1,169.3473**	**0.0522**		**1,170.6524**

3.7 Asphalt Demolition Debris Reprocessing - 2020

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	1.2563	8.0433	4.8197	0.0224		0.2817	0.2817		0.2817	0.2817		2,540.8504	2,540.8504	0.1118		2,543.6448
Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**		**0.2817**	**0.2817**		**0.2817**	**0.2817**		**2,540.8504**	**2,540.8504**	**0.1118**		**2,543.6448**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0164	0.0111	0.1109	3.1000e-004	0.0335	2.2000e-004	0.0338	8.8900e-003	2.0000e-004	9.1000e-003		30.4125	30.4125	9.1000e-004		30.4352
Total	**0.0164**	**0.0111**	**0.1109**	**3.1000e-004**	**0.0335**	**2.2000e-004**	**0.0338**	**8.8900e-003**	**2.0000e-004**	**9.1000e-003**		**30.4125**	**30.4125**	**9.1000e-004**		**30.4352**

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	1.2563	8.0433	4.8197	0.0224		0.2817	0.2817		0.2817	0.2817	0.0000	2,540.8504	2,540.8504	0.1118		2,543.6448
Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**		**0.2817**	**0.2817**		**0.2817**	**0.2817**	**0.0000**	**2,540.8504**	**2,540.8504**	**0.1118**		**2,543.6448**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0164	0.0111	0.1109	3.1000e-004	0.0309	2.2000e-004	0.0311	8.2500e-003	2.0000e-004	8.4500e-003		30.4125	30.4125	9.1000e-004		30.4352
Total	**0.0164**	**0.0111**	**0.1109**	**3.1000e-004**	**0.0309**	**2.2000e-004**	**0.0311**	**8.2500e-003**	**2.0000e-004**	**8.4500e-003**		**30.4125**	**30.4125**	**9.1000e-004**		**30.4352**

3.8 Rough 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					19.9979	0.0000	19.9979	7.4793	0.0000	7.4793			0.0000			0.0000
Off-Road	6.4967	72.1659	41.9462	0.1070		2.8456	2.8456		2.6179	2.6179		10,359.6718	10,359.6718	3.3505		10,443.4350
Total	**6.4967**	**72.1659**	**41.9462**	**0.1070**	**19.9979**	**2.8456**	**22.8435**	**7.4793**	**2.6179**	**10.0972**		**10,359.6718**	**10,359.6718**	**3.3505**		**10,443.4350**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0359	1.2654	0.2759	3.6000e-003	0.0897	2.0000e-003	0.0917	0.0258	1.9100e-003	0.0277		379.7588	379.7588	0.0270		380.4333
Worker	0.1716	0.1069	1.1211	3.4200e-003	0.4024	2.5000e-003	0.4049	0.1067	2.3000e-003	0.1090		340.6126	340.6126	8.8300e-003		340.8332
Total	**0.2075**	**1.3723**	**1.3970**	**7.0200e-003**	**0.4921**	**4.5000e-003**	**0.4966**	**0.1325**	**4.2100e-003**	**0.1368**		**720.3713**	**720.3713**	**0.0358**		**721.2666**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.5491	0.0000	8.5491	3.1974	0.0000	3.1974			0.0000			0.0000
Off-Road	6.4967	72.1659	41.9462	0.1070		2.8456	2.8456		2.6179	2.6179	0.0000	10,359.6718	10,359.6718	3.3505		10,443.4350
Total	**6.4967**	**72.1659**	**41.9462**	**0.1070**	**8.5491**	**2.8456**	**11.3947**	**3.1974**	**2.6179**	**5.8153**	**0.0000**	**10,359.6718**	**10,359.6718**	**3.3505**		**10,443.4350**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0359	1.2654	0.2759	3.6000e-003	0.0839	2.0000e-003	0.0859	0.0244	1.9100e-003	0.0263		379.7588	379.7588	0.0270		380.4333
Worker	0.1716	0.1069	1.1211	3.4200e-003	0.3709	2.5000e-003	0.3734	0.0990	2.3000e-003	0.1013		340.6126	340.6126	8.8300e-003		340.8332
Total	**0.2075**	**1.3723**	**1.3970**	**7.0200e-003**	**0.4548**	**4.5000e-003**	**0.4593**	**0.1234**	**4.2100e-003**	**0.1276**		**720.3713**	**720.3713**	**0.0358**		**721.2666**

3.9 Rough Grading Soil Haul - 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					0.0893	0.0000	0.0893	0.0135	0.0000	0.0135			0.0000			0.0000
Off-Road	0.2572	2.0908	2.1338	9.7600e-003		0.0702	0.0702		0.0646	0.0646		944.4074	944.4074	0.3054		952.0434
Total	**0.2572**	**2.0908**	**2.1338**	**9.7600e-003**	**0.0893**	**0.0702**	**0.1595**	**0.0135**	**0.0646**	**0.0781**		**944.4074**	**944.4074**	**0.3054**		**952.0434**

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	0.4525	17.5093	2.9940	0.0498	0.9881	0.0322	1.0203	0.2710	0.0308	0.3018		5,290.3972	5,290.3972	0.4395		5,301.3852
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0143	8.9100e-003	0.0934	2.8000e-004	0.0335	2.1000e-004	0.0337	8.8900e-003	1.9000e-004	9.0800e-003		28.3844	28.3844	7.4000e-004		28.4028
Total	**0.4668**	**17.5183**	**3.0874**	**0.0501**	**1.0216**	**0.0324**	**1.0540**	**0.2799**	**0.0310**	**0.3109**		**5,318.7816**	**5,318.7816**	**0.4403**		**5,329.7880**

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					0.0382	0.0000	0.0382	5.7800e-003	0.0000	5.7800e-003			0.0000			0.0000
Off-Road	0.2572	2.0908	2.1338	9.7600e-003		0.0702	0.0702		0.0646	0.0646	0.0000	944.4074	944.4074	0.3054		952.0434
Total	**0.2572**	**2.0908**	**2.1338**	**9.7600e-003**	**0.0382**	**0.0702**	**0.1084**	**5.7800e-003**	**0.0646**	**0.0704**	**0.0000**	**944.4074**	**944.4074**	**0.3054**		**952.0434**

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	0.4525	17.5093	2.9940	0.0498	0.9210	0.0322	0.9532	0.2545	0.0308	0.2854		5,290.3972	5,290.3972	0.4395		5,301.3852
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0143	8.9100e-003	0.0934	2.8000e-004	0.0309	2.1000e-004	0.0311	8.2500e-003	1.9000e-004	8.4400e-003		28.3844	28.3844	7.4000e-004		28.4028
Total	**0.4668**	**17.5183**	**3.0874**	**0.0501**	**0.9519**	**0.0324**	**0.9843**	**0.2628**	**0.0310**	**0.2938**		**5,318.7816**	**5,318.7816**	**0.4403**		**5,329.7880**

3.10 Utility Trenching - 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	1.2337	11.6192	9.9028	0.0371		0.4280	0.4280		0.3938	0.3938		3,588.8551	3,588.8551	1.1607		3,617.8728
Total	**1.2337**	**11.6192**	**9.9028**	**0.0371**		**0.4280**	**0.4280**		**0.3938**	**0.3938**		**3,588.8551**	**3,588.8551**	**1.1607**		**3,617.8728**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0256	0.9039	0.1971	2.5700e-003	0.0641	1.4300e-003	0.0655	0.0184	1.3700e-003	0.0198		271.2563	271.2563	0.0193		271.7381
Worker	0.1526	0.0950	0.9965	3.0400e-003	0.3577	2.2200e-003	0.3599	0.0949	2.0400e-003	0.0969		302.7667	302.7667	7.8500e-003		302.9629
Total	**0.1782**	**0.9989**	**1.1936**	**5.6100e-003**	**0.4217**	**3.6500e-003**	**0.4254**	**0.1133**	**3.4100e-003**	**0.1167**		**574.0230**	**574.0230**	**0.0271**		**574.7010**

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	1.2337	11.6192	9.9028	0.0371		0.4280	0.4280		0.3938	0.3938	0.0000	3,588.8551	3,588.8551	1.1607		3,617.8728
Total	**1.2337**	**11.6192**	**9.9028**	**0.0371**		**0.4280**	**0.4280**		**0.3938**	**0.3938**	**0.0000**	**3,588.8551**	**3,588.8551**	**1.1607**		**3,617.8728**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0256	0.9039	0.1971	2.5700e-003	0.0599	1.4300e-003	0.0614	0.0174	1.3700e-003	0.0188		271.2563	271.2563	0.0193		271.7381
Worker	0.1526	0.0950	0.9965	3.0400e-003	0.3297	2.2200e-003	0.3319	0.0880	2.0400e-003	0.0900		302.7667	302.7667	7.8500e-003		302.9629
Total	**0.1782**	**0.9989**	**1.1936**	**5.6100e-003**	**0.3896**	**3.6500e-003**	**0.3933**	**0.1054**	**3.4100e-003**	**0.1088**		**574.0230**	**574.0230**	**0.0271**		**574.7010**

3.11 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	1.7844	17.7854	12.8535	0.0280		0.9547	0.9547		0.8783	0.8783		2,714.6667	2,714.6667	0.8780		2,736.6161
Total	**1.7844**	**17.7854**	**12.8535**	**0.0280**		**0.9547**	**0.9547**		**0.8783**	**0.8783**		**2,714.6667**	**2,714.6667**	**0.8780**		**2,736.6161**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.1200e-003	0.1808	0.0394	5.1000e-004	0.0128	2.9000e-004	0.0131	3.6900e-003	2.7000e-004	3.9600e-003		54.2513	54.2513	3.8500e-003		54.3476
Worker	0.2861	0.1781	1.8685	5.7000e-003	0.6707	4.1600e-003	0.6748	0.1779	3.8300e-003	0.1817		567.6876	567.6876	0.0147		568.0554
Total	**0.2912**	**0.3589**	**1.9079**	**6.2100e-003**	**0.6835**	**4.4500e-003**	**0.6879**	**0.1816**	**4.1000e-003**	**0.1857**		**621.9388**	**621.9388**	**0.0186**		**622.4030**

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	1.7844	17.7854	12.8535	0.0280		0.9547	0.9547		0.8783	0.8783	0.0000	2,714.6667	2,714.6667	0.8780		2,736.6161
Total	**1.7844**	**17.7854**	**12.8535**	**0.0280**		**0.9547**	**0.9547**		**0.8783**	**0.8783**	**0.0000**	**2,714.6667**	**2,714.6667**	**0.8780**		**2,736.6161**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.1200e-003	0.1808	0.0394	5.1000e-004	0.0120	2.9000e-004	0.0123	3.4900e-003	2.7000e-004	3.7600e-003		54.2513	54.2513	3.8500e-003		54.3476
Worker	0.2861	0.1781	1.8685	5.7000e-003	0.6182	4.1600e-003	0.6224	0.1650	3.8300e-003	0.1688		567.6876	567.6876	0.0147		568.0554
Total	**0.2912**	**0.3589**	**1.9079**	**6.2100e-003**	**0.6302**	**4.4500e-003**	**0.6346**	**0.1685**	**4.1000e-003**	**0.1726**		**621.9388**	**621.9388**	**0.0186**		**622.4030**

3.12 Fine 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					2.1210	0.0000	2.1210	0.2290	0.0000	0.2290			0.0000			0.0000
Off-Road	1.7500	20.8377	7.9233	0.0267		0.7507	0.7507		0.6907	0.6907		2,585.7971	2,585.7971	0.8363		2,606.7046
Total	**1.7500**	**20.8377**	**7.9233**	**0.0267**	**2.1210**	**0.7507**	**2.8717**	**0.2290**	**0.6907**	**0.9197**		**2,585.7971**	**2,585.7971**	**0.8363**		**2,606.7046**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0205	0.7231	0.1576	2.0600e-003	0.0512	1.1400e-003	0.0524	0.0148	1.0900e-003	0.0159		217.0050	217.0050	0.0154		217.3905
Worker	0.1716	0.1069	1.1211	3.4200e-003	0.4024	2.5000e-003	0.4049	0.1067	2.3000e-003	0.1090		340.6126	340.6126	8.8300e-003		340.8332
Total	**0.1921**	**0.8300**	**1.2788**	**5.4800e-003**	**0.4536**	**3.6400e-003**	**0.4573**	**0.1215**	**3.3900e-003**	**0.1249**		**557.6176**	**557.6176**	**0.0243**		**558.2237**

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					0.9067	0.0000	0.9067	0.0979	0.0000	0.0979			0.0000			0.0000
Off-Road	1.7500	20.8377	7.9233	0.0267		0.7507	0.7507		0.6907	0.6907	0.0000	2,585.7971	2,585.7971	0.8363		2,606.7046
Total	**1.7500**	**20.8377**	**7.9233**	**0.0267**	**0.9067**	**0.7507**	**1.6574**	**0.0979**	**0.6907**	**0.7886**	**0.0000**	**2,585.7971**	**2,585.7971**	**0.8363**		**2,606.7046**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0205	0.7231	0.1576	2.0600e-003	0.0480	1.1400e-003	0.0491	0.0140	1.0900e-003	0.0150		217.0050	217.0050	0.0154		217.3905
Worker	0.1716	0.1069	1.1211	3.4200e-003	0.3709	2.5000e-003	0.3734	0.0990	2.3000e-003	0.1013		340.6126	340.6126	8.8300e-003		340.8332
Total	**0.1921**	**0.8300**	**1.2788**	**5.4800e-003**	**0.4189**	**3.6400e-003**	**0.4225**	**0.1129**	**3.3900e-003**	**0.1163**		**557.6176**	**557.6176**	**0.0243**		**558.2237**

3.13 Finishing/Landscaping - 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	0.6043	5.9747	6.4425	0.0143		0.2609	0.2609		0.2400	0.2400		1,382.1236	1,382.1236	0.4470		1,393.2988
Total	**0.6043**	**5.9747**	**6.4425**	**0.0143**		**0.2609**	**0.2609**		**0.2400**	**0.2400**		**1,382.1236**	**1,382.1236**	**0.4470**		**1,393.2988**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0154	0.5423	0.1182	1.5400e-003	0.0384	8.6000e-004	0.0393	0.0111	8.2000e-004	0.0119		162.7538	162.7538	0.0116		163.0429
Worker	0.0954	0.0594	0.6228	1.9000e-003	0.2236	1.3900e-003	0.2249	0.0593	1.2800e-003	0.0606		189.2292	189.2292	4.9000e-003		189.3518
Total	**0.1107**	**0.6017**	**0.7411**	**3.4400e-003**	**0.2620**	**2.2500e-003**	**0.2642**	**0.0704**	**2.1000e-003**	**0.0725**		**351.9830**	**351.9830**	**0.0165**		**352.3947**

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	0.6043	5.9747	6.4425	0.0143		0.2609	0.2609		0.2400	0.2400	0.0000	1,382.1236	1,382.1236	0.4470		1,393.2988
Total	**0.6043**	**5.9747**	**6.4425**	**0.0143**		**0.2609**	**0.2609**		**0.2400**	**0.2400**	**0.0000**	**1,382.1236**	**1,382.1236**	**0.4470**		**1,393.2988**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0154	0.5423	0.1182	1.5400e-003	0.0360	8.6000e-004	0.0368	0.0105	8.2000e-004	0.0113		162.7538	162.7538	0.0116		163.0429
Worker	0.0954	0.0594	0.6228	1.9000e-003	0.2061	1.3900e-003	0.2075	0.0550	1.2800e-003	0.0563		189.2292	189.2292	4.9000e-003		189.3518
Total	**0.1107**	**0.6017**	**0.7411**	**3.4400e-003**	**0.2420**	**2.2500e-003**	**0.2443**	**0.0655**	**2.1000e-003**	**0.0676**		**351.9830**	**351.9830**	**0.0165**		**352.3947**

3.14 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	94.8131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**95.0176**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0572	0.0356	0.3737	1.1400e-003	0.1341	8.3000e-004	0.1350	0.0356	7.7000e-004	0.0363		113.5375	113.5375	2.9400e-003		113.6111
Total	**0.0572**	**0.0356**	**0.3737**	**1.1400e-003**	**0.1341**	**8.3000e-004**	**0.1350**	**0.0356**	**7.7000e-004**	**0.0363**		**113.5375**	**113.5375**	**2.9400e-003**		**113.6111**

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	94.8131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**95.0176**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0572	0.0356	0.3737	1.1400e-003	0.1236	8.3000e-004	0.1245	0.0330	7.7000e-004	0.0338		113.5375	113.5375	2.9400e-003		113.6111
Total	**0.0572**	**0.0356**	**0.3737**	**1.1400e-003**	**0.1236**	**8.3000e-004**	**0.1245**	**0.0330**	**7.7000e-004**	**0.0338**		**113.5375**	**113.5375**	**2.9400e-003**		**113.6111**

3.15 Asphalt 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	1.0321	11.8577	8.5871	0.0183		0.4823	0.4823		0.4437	0.4437		1,771.4092	1,771.4092	0.5729		1,785.7319
Paving	5.0828					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**6.1149**	**11.8577**	**8.5871**	**0.0183**		**0.4823**	**0.4823**		**0.4437**	**0.4437**		**1,771.4092**	**1,771.4092**	**0.5729**		**1,785.7319**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2663	9.4002	2.0494	0.0267	0.6661	0.0149	0.6810	0.1918	0.0142	0.2060		2,821.0650	2,821.0650	0.2005		2,826.0762
Worker	0.0954	0.0594	0.6228	1.9000e-003	0.2236	1.3900e-003	0.2249	0.0593	1.2800e-003	0.0606		189.2292	189.2292	4.9000e-003		189.3518
Total	**0.3616**	**9.4596**	**2.6722**	**0.0286**	**0.8896**	**0.0163**	**0.9059**	**0.2511**	**0.0155**	**0.2666**		**3,010.2942**	**3,010.2942**	**0.2054**		**3,015.4280**

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	1.0321	11.8577	8.5871	0.0183		0.4823	0.4823		0.4437	0.4437	0.0000	1,771.4092	1,771.4092	0.5729		1,785.7319
Paving	5.0828					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**6.1149**	**11.8577**	**8.5871**	**0.0183**		**0.4823**	**0.4823**		**0.4437**	**0.4437**	**0.0000**	**1,771.4092**	**1,771.4092**	**0.5729**		**1,785.7319**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2663	9.4002	2.0494	0.0267	0.6234	0.0149	0.6383	0.1813	0.0142	0.1955		2,821.0650	2,821.0650	0.2005		2,826.0762
Worker	0.0954	0.0594	0.6228	1.9000e-003	0.2061	1.3900e-003	0.2075	0.0550	1.2800e-003	0.0563		189.2292	189.2292	4.9000e-003		189.3518
Total	**0.3616**	**9.4596**	**2.6722**	**0.0286**	**0.8295**	**0.0163**	**0.8457**	**0.2363**	**0.0155**	**0.2518**		**3,010.2942**	**3,010.2942**	**0.2054**		**3,015.4280**

Phase 2 Construction

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	457.90	1000sqft	9.31	457,904.00	0
Other Asphalt Surfaces	7.90	Acre	7.90	344,070.00	0
Other Non-Asphalt Surfaces	3.99	Acre	3.99	0.00	0
Parking Lot	1.80	Acre	1.80	78,451.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions file in the AQ/GHG appendix.

Construction Phase - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment -

Off-road Equipment - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

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Off-road Equipment - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Trips and VMT - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Demolition -

Grading -

Architectural Coating - See assumptions file in the AQ/GHG appendix for details.

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186.

Area Coating -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	25,351.00	4,707.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	370.00	224.00

tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	20.00	2.00
tblConstructionPhase	NumDays	35.00	8.00
tblConstructionPhase	NumDays	35.00	15.00
tblConstructionPhase	NumDays	35.00	19.00
tblConstructionPhase	NumDays	20.00	5.00
tblGrading	MaterialExported	0.00	15,000.00
tblLandUse	LandUseSquareFeet	344,124.00	344,070.00
tblLandUse	LandUseSquareFeet	173,804.40	0.00
tblLandUse	LandUseSquareFeet	78,408.00	78,451.00
tblLandUse	LotAcreage	10.51	9.31
tblOffRoadEquipment	HorsePower	231.00	110.00
tblOffRoadEquipment	HorsePower	231.00	93.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	130.00	173.00
tblOffRoadEquipment	HorsePower	80.00	110.00
tblOffRoadEquipment	HorsePower	247.00	196.00
tblOffRoadEquipment	HorsePower	367.00	240.00

tblOffRoadEquipment	HorsePower	367.00	270.00
tblOffRoadEquipment	HorsePower	212.00	257.00
tblOffRoadEquipment	HorsePower	85.00	325.00
tblOffRoadEquipment	HorsePower	85.00	325.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	100.00	238.00
tblOffRoadEquipment	HorsePower	97.00	260.00
tblOffRoadEquipment	HorsePower	97.00	127.00
tblOffRoadEquipment	HorsePower	97.00	230.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	HorsePower	97.00	260.00
tblOffRoadEquipment	HorsePower	97.00	230.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	LoadFactor	0.29	0.56
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	430.43	340.19
tblTripsAndVMT	HaulingTripLength	20.00	14.00
tblTripsAndVMT	HaulingTripLength	20.00	35.00
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	HaulingTripNumber	3.00	4.00
tblTripsAndVMT	HaulingTripNumber	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	1,875.00	2,143.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	144.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	104.00
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	10.00	12.00
tblTripsAndVMT	WorkerTripNumber	370.00	60.00
tblTripsAndVMT	WorkerTripNumber	8.00	36.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	74.00	12.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	3.00	12.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00

tblTripsAndVMT	WorkerTripNumber	5.00	12.00
tblTripsAndVMT	WorkerTripNumber	28.00	36.00
tblTripsAndVMT	WorkerTripNumber	13.00	32.00
tblWater	IndoorWaterUseRate	105,889,375.00	83,689,375.00

2.0 Emissions Summary

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					
2020	0.0202	0.2055	0.1381	5.8000e-004	4.9200e-003	6.4300e-003	0.0114	1.2100e-003	5.9600e-003	7.1700e-003	0.0000	51.6409	51.6409	0.0139	0.0000	51.9872
2022	2.4983	3.4021	2.6084	6.9800e-003	0.2711	0.1530	0.4241	0.0871	0.1409	0.2280	0.0000	621.0922	621.0922	0.1584	0.0000	625.0517
Maximum	**2.4983**	**3.4021**	**2.6084**	**6.9800e-003**	**0.2711**	**0.1530**	**0.4241**	**0.0871**	**0.1409**	**0.2280**	**0.0000**	**621.0922**	**621.0922**	**0.1584**	**0.0000**	**625.0517**

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					
2020	0.0202	0.2055	0.1381	5.8000e-004	4.0300e-003	6.4300e-003	0.0105	1.0500e-003	5.9600e-003	7.0100e-003	0.0000	51.6408	51.6408	0.0139	0.0000	51.9871
2022	2.4983	3.4021	2.6084	6.9800e-003	0.1714	0.1530	0.3244	0.0523	0.1409	0.1932	0.0000	621.0917	621.0917	0.1584	0.0000	625.0511
Maximum	**2.4983**	**3.4021**	**2.6084**	**6.9800e-003**	**0.1714**	**0.1530**	**0.3244**	**0.0523**	**0.1409**	**0.1932**	**0.0000**	**621.0917**	**621.0917**	**0.1584**	**0.0000**	**625.0511**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**36.46**	**0.00**	**23.11**	**39.62**	**0.00**	**14.87**	**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	**10-5-2020**	**1-4-2021**	0.4058	0.4058
5	**10-5-2021**	**1-4-2022**	0.0864	0.0864
6	**1-5-2022**	**4-4-2022**	1.5820	1.5820
7	**4-5-2022**	**7-4-2022**	0.6569	0.6569
8	**7-5-2022**	**9-30-2022**	2.9665	2.9665
		Highest	2.9665	2.9665

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Demolition	Demolition	10/5/2020	10/9/2020	5	5	
2	Building Demolition Debris Haul	Demolition	10/19/2020	10/19/2020	5	1	
3	Building Demolition Debris Reprocessing	Demolition	10/19/2020	10/19/2020	5	1	
4	Asphalt Demolition	Demolition	10/19/2020	11/13/2020	5	20	
5	Asphalt Demolition Debris Haul	Demolition	11/25/2020	11/25/2020	5	1	
6	Asphalt Demolition Debris Reprocessing	Demolition	11/25/2020	11/26/2020	5	2	
7	Rough Grading	Grading	1/3/2022	1/21/2022	5	15	
8	Rough Grading Soil Haul	Grading	1/3/2022	1/27/2022	5	19	
9	Utility Trenching	Trenching	1/24/2022	3/2/2022	5	28	
10	Building Construction	Building Construction	1/24/2022	12/1/2022	5	224	
11	Fine Grading	Grading	3/3/2022	3/14/2022	5	8	

12	Finishing/Landscaping	Trenching	8/1/2022	11/24/2022	5	84	
13	Architectural Coating	Architectural Coating	8/1/2022	9/30/2022	5	45	
14	Asphalt Paving	Paving	9/1/2022	9/7/2022	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 13.69

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 686,856; Non-Residential Outdoor: 228,952; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition	Excavators	2	8.00	300	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Building Demolition	Tractors/Loaders/Backhoes	2	8.00	260	0.37
Building Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition Debris Haul	Excavators	2	8.00	300	0.38
Building Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Building Demolition Debris Reprocessing	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition Debris Reprocessing	Crushing/Proc. Equipment	1	8.00	325	0.78
Building Demolition Debris Reprocessing	Excavators	0	8.00	158	0.38
Building Demolition Debris Reprocessing	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Excavators	2	8.00	300	0.38
Asphalt Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Tractors/Loaders/Backhoes	2	8.00	260	0.37
Asphalt Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73

Asphalt Demolition Debris Haul	Excavators	2	8.00	300	0.38
Asphalt Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition Debris Reprocessing	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Reprocessing	Crushing/Proc. Equipment	1	8.00	325	0.78
Asphalt Demolition Debris Reprocessing	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Reprocessing	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading	Crawler Tractors	1	8.00	257	0.43
Rough Grading	Excavators	0	8.00	158	0.38
Rough Grading	Graders	2	8.00	238	0.41
Rough Grading	Rubber Tired Dozers	2	8.00	196	0.40
Rough Grading	Scrapers	6	8.00	270	0.48
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Rough Grading Soil Haul	Excavators	1	8.00	300	0.38
Rough Grading Soil Haul	Graders	0	8.00	187	0.41
Rough Grading Soil Haul	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading Soil Haul	Scrapers	0	8.00	367	0.48
Rough Grading Soil Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	110	0.29
Building Construction	Cranes	2	8.00	93	0.56
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	2	8.00	238	0.40
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Utility Trenching	Excavators	2	8.00	300	0.38
Utility Trenching	Tractors/Loaders/Backhoes	2	8.00	230	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	93	0.37

Fine Grading	Excavators	0	8.00	158	0.38
Fine Grading	Graders	2	8.00	238	0.41
Fine Grading	Rubber Tired Dozers	0	8.00	247	0.40
Fine Grading	Scrapers	1	8.00	240	0.48
Fine Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	127	0.37
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	230	0.37
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	93	0.37
Asphalt Paving	Graders	1	8.00	238	0.41
Asphalt Paving	Pavers	1	8.00	173	0.42
Asphalt Paving	Paving Equipment	0	8.00	132	0.36
Asphalt Paving	Rollers	1	8.00	110	0.38

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
Building Demolition	4	12.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demolition Debris Haul	2	5.00	0.00	4.00	14.70	6.90	14.00	LD_Mix	HDT_Mix	HHDT
Building Demolition Debris Reprocessing	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	4	20.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Haul	2	12.00	0.00	8.00	14.70	6.90	35.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Reprocessing	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	11	36.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading Soil Haul	1	3.00	0.00	2,143.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	60.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	5	32.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Fine Grading	3	36.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	3	20.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	3	20.00	104.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building Demolition - 2020

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	3.1900e-003	0.0335	0.0226	9.0000e-005		1.1400e-003	1.1400e-003		1.0500e-003	1.0500e-003	0.0000	7.8927	7.8927	2.5500e-003	0.0000	7.9565
Total	**3.1900e-003**	**0.0335**	**0.0226**	**9.0000e-005**		**1.1400e-003**	**1.1400e-003**		**1.0500e-003**	**1.0500e-003**	**0.0000**	**7.8927**	**7.8927**	**2.5500e-003**	**0.0000**	**7.9565**

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	6.0000e-005	2.1400e-003	4.5000e-004	1.0000e-005	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5106	0.5106	4.0000e-005	0.0000	0.5115
Worker	1.5000e-004	1.2000e-004	1.1600e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2820	0.2820	1.0000e-005	0.0000	0.2822
Total	**2.1000e-004**	**2.2600e-003**	**1.6100e-003**	**1.0000e-005**	**4.6000e-004**	**1.0000e-005**	**4.7000e-004**	**1.3000e-004**	**1.0000e-005**	**1.4000e-004**	**0.0000**	**0.7926**	**0.7926**	**5.0000e-005**	**0.0000**	**0.7937**

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	3.1900e-003	0.0335	0.0226	9.0000e-005		1.1400e-003	1.1400e-003		1.0500e-003	1.0500e-003	0.0000	7.8927	7.8927	2.5500e-003	0.0000	7.9565
Total	**3.1900e-003**	**0.0335**	**0.0226**	**9.0000e-005**		**1.1400e-003**	**1.1400e-003**		**1.0500e-003**	**1.0500e-003**	**0.0000**	**7.8927**	**7.8927**	**2.5500e-003**	**0.0000**	**7.9565**

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	6.0000e-005	2.1400e-003	4.5000e-004	1.0000e-005	1.2000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5106	0.5106	4.0000e-005	0.0000	0.5115
Worker	1.5000e-004	1.2000e-004	1.1600e-003	0.0000	3.0000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2820	0.2820	1.0000e-005	0.0000	0.2822
Total	**2.1000e-004**	**2.2600e-003**	**1.6100e-003**	**1.0000e-005**	**4.2000e-004**	**1.0000e-005**	**4.4000e-004**	**1.1000e-004**	**1.0000e-005**	**1.2000e-004**	**0.0000**	**0.7926**	**0.7926**	**5.0000e-005**	**0.0000**	**0.7937**

3.3 Building Demolition Debris Haul - 2020

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					3.0000e-004	0.0000	3.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1000e-004	3.1600e-003	2.2100e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.8578	0.8578	2.8000e-004	0.0000	0.8648
Total	**3.1000e-004**	**3.1600e-003**	**2.2100e-003**	**1.0000e-005**	**3.0000e-004**	**1.0000e-004**	**4.0000e-004**	**5.0000e-005**	**1.0000e-004**	**1.5000e-004**	**0.0000**	**0.8578**	**0.8578**	**2.8000e-004**	**0.0000**	**0.8648**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	4.2000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1132	0.1132	1.0000e-005	0.0000	0.1134
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	1.0000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0235	0.0235	0.0000	0.0000	0.0235
Total	**2.0000e-005**	**4.3000e-004**	**1.6000e-004**	**0.0000**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.1367**	**0.1367**	**1.0000e-005**	**0.0000**	**0.1369**

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					1.3000e-004	0.0000	1.3000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1000e-004	3.1600e-003	2.2100e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.8578	0.8578	2.8000e-004	0.0000	0.8648
Total	**3.1000e-004**	**3.1600e-003**	**2.2100e-003**	**1.0000e-005**	**1.3000e-004**	**1.0000e-004**	**2.3000e-004**	**2.0000e-005**	**1.0000e-004**	**1.2000e-004**	**0.0000**	**0.8578**	**0.8578**	**2.8000e-004**	**0.0000**	**0.8648**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	4.2000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1132	0.1132	1.0000e-005	0.0000	0.1134
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	1.0000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0235	0.0235	0.0000	0.0000	0.0235
Total	**2.0000e-005**	**4.3000e-004**	**1.6000e-004**	**0.0000**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.1367**	**0.1367**	**1.0000e-005**	**0.0000**	**0.1369**

3.4 Building Demolition Debris Reprocessing - 2020

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	6.3000e-004	4.0200e-003	2.4100e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	1.1525	1.1525	5.0000e-005	0.0000	1.1538
Total	**6.3000e-004**	**4.0200e-003**	**2.4100e-003**	**1.0000e-005**		**1.4000e-004**	**1.4000e-004**		**1.4000e-004**	**1.4000e-004**	**0.0000**	**1.1525**	**1.1525**	**5.0000e-005**	**0.0000**	**1.1538**

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	3.0000e-005	2.0000e-005	2.3000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0564	0.0564	0.0000	0.0000	0.0564
Total	**3.0000e-005**	**2.0000e-005**	**2.3000e-004**	**0.0000**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0564**	**0.0564**	**0.0000**	**0.0000**	**0.0564**

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	6.3000e-004	4.0200e-003	2.4100e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	1.1525	1.1525	5.0000e-005	0.0000	1.1538
Total	**6.3000e-004**	**4.0200e-003**	**2.4100e-003**	**1.0000e-005**		**1.4000e-004**	**1.4000e-004**		**1.4000e-004**	**1.4000e-004**	**0.0000**	**1.1525**	**1.1525**	**5.0000e-005**	**0.0000**	**1.1538**

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	3.0000e-005	2.0000e-005	2.3000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0564	0.0564	0.0000	0.0000	0.0564
Total	**3.0000e-005**	**2.0000e-005**	**2.3000e-004**	**0.0000**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0564**	**0.0564**	**0.0000**	**0.0000**	**0.0564**

3.5 Asphalt Demolition - 2020

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	0.0127	0.1338	0.0904	3.6000e-004		4.5600e-003	4.5600e-003		4.2000e-003	4.2000e-003	0.0000	31.5708	31.5708	0.0102	0.0000	31.8261
Total	**0.0127**	**0.1338**	**0.0904**	**3.6000e-004**		**4.5600e-003**	**4.5600e-003**		**4.2000e-003**	**4.2000e-003**	**0.0000**	**31.5708**	**31.5708**	**0.0102**	**0.0000**	**31.8261**

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	4.3000e-004	0.0150	3.1300e-003	4.0000e-005	8.8000e-004	7.0000e-005	9.5000e-004	2.5000e-004	7.0000e-005	3.2000e-004	0.0000	3.5744	3.5744	2.5000e-004	0.0000	3.5806
Worker	9.9000e-004	7.8000e-004	7.7600e-003	2.0000e-005	2.1900e-003	1.0000e-005	2.2100e-003	5.8000e-004	1.0000e-005	6.0000e-004	0.0000	1.8796	1.8796	6.0000e-005	0.0000	1.8811
Total	**1.4200e-003**	**0.0157**	**0.0109**	**6.0000e-005**	**3.0700e-003**	**8.0000e-005**	**3.1600e-003**	**8.3000e-004**	**8.0000e-005**	**9.2000e-004**	**0.0000**	**5.4541**	**5.4541**	**3.1000e-004**	**0.0000**	**5.4617**

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	0.0127	0.1338	0.0904	3.6000e-004		4.5600e-003	4.5600e-003		4.2000e-003	4.2000e-003	0.0000	31.5708	31.5708	0.0102	0.0000	31.8261
Total	**0.0127**	**0.1338**	**0.0904**	**3.6000e-004**		**4.5600e-003**	**4.5600e-003**		**4.2000e-003**	**4.2000e-003**	**0.0000**	**31.5708**	**31.5708**	**0.0102**	**0.0000**	**31.8261**

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	4.3000e-004	0.0150	3.1300e-003	4.0000e-005	8.3000e-004	7.0000e-005	8.9000e-004	2.4000e-004	7.0000e-005	3.1000e-004	0.0000	3.5744	3.5744	2.5000e-004	0.0000	3.5806
Worker	9.9000e-004	7.8000e-004	7.7600e-003	2.0000e-005	2.0200e-003	1.0000e-005	2.0400e-003	5.4000e-004	1.0000e-005	5.5000e-004	0.0000	1.8796	1.8796	6.0000e-005	0.0000	1.8811
Total	**1.4200e-003**	**0.0157**	**0.0109**	**6.0000e-005**	**2.8500e-003**	**8.0000e-005**	**2.9300e-003**	**7.8000e-004**	**8.0000e-005**	**8.6000e-004**	**0.0000**	**5.4541**	**5.4541**	**3.1000e-004**	**0.0000**	**5.4617**

3.6 Asphalt Demolition Debris Haul - 2020

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					7.5000e-004	0.0000	7.5000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1000e-004	3.1600e-003	2.2100e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.8578	0.8578	2.8000e-004	0.0000	0.8648
Total	**3.1000e-004**	**3.1600e-003**	**2.2100e-003**	**1.0000e-005**	**7.5000e-004**	**1.0000e-004**	**8.5000e-004**	**1.1000e-004**	**1.0000e-004**	**2.1000e-004**	**0.0000**	**0.8578**	**0.8578**	**2.8000e-004**	**0.0000**	**0.8648**

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	4.0000e-005	1.4400e-003	2.3000e-004	0.0000	1.2000e-004	1.0000e-005	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.4798	0.4798	2.0000e-005	0.0000	0.4803
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	3.0000e-005	2.0000e-005	2.3000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0564	0.0564	0.0000	0.0000	0.0564
Total	**7.0000e-005**	**1.4600e-003**	**4.6000e-004**	**0.0000**	**1.9000e-004**	**1.0000e-005**	**2.0000e-004**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.5362**	**0.5362**	**2.0000e-005**	**0.0000**	**0.5368**

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					3.2000e-004	0.0000	3.2000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1000e-004	3.1600e-003	2.2100e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.8578	0.8578	2.8000e-004	0.0000	0.8648
Total	**3.1000e-004**	**3.1600e-003**	**2.2100e-003**	**1.0000e-005**	**3.2000e-004**	**1.0000e-004**	**4.2000e-004**	**5.0000e-005**	**1.0000e-004**	**1.5000e-004**	**0.0000**	**0.8578**	**0.8578**	**2.8000e-004**	**0.0000**	**0.8648**

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	4.0000e-005	1.4400e-003	2.3000e-004	0.0000	1.1000e-004	1.0000e-005	1.2000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.4798	0.4798	2.0000e-005	0.0000	0.4803
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	3.0000e-005	2.0000e-005	2.3000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0564	0.0564	0.0000	0.0000	0.0564
Total	**7.0000e-005**	**1.4600e-003**	**4.6000e-004**	**0.0000**	**1.7000e-004**	**1.0000e-005**	**1.8000e-004**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.5362**	**0.5362**	**2.0000e-005**	**0.0000**	**0.5368**

3.7 Asphalt Demolition Debris Reprocessing - 2020

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	1.2600e-003	8.0400e-003	4.8200e-003	2.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	2.3050	2.3050	1.0000e-004	0.0000	2.3076
Total	**1.2600e-003**	**8.0400e-003**	**4.8200e-003**	**2.0000e-005**		**2.8000e-004**	**2.8000e-004**		**2.8000e-004**	**2.8000e-004**	**0.0000**	**2.3050**	**2.3050**	**1.0000e-004**	**0.0000**	**2.3076**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0282	0.0282	0.0000	0.0000	0.0282
Total	**1.0000e-005**	**1.0000e-005**	**1.2000e-004**	**0.0000**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0282**	**0.0282**	**0.0000**	**0.0000**	**0.0282**

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	1.2600e-003	8.0400e-003	4.8200e-003	2.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	2.3050	2.3050	1.0000e-004	0.0000	2.3076
Total	**1.2600e-003**	**8.0400e-003**	**4.8200e-003**	**2.0000e-005**		**2.8000e-004**	**2.8000e-004**		**2.8000e-004**	**2.8000e-004**	**0.0000**	**2.3050**	**2.3050**	**1.0000e-004**	**0.0000**	**2.3076**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0282	0.0282	0.0000	0.0000	0.0282
Total	**1.0000e-005**	**1.0000e-005**	**1.2000e-004**	**0.0000**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0282**	**0.0282**	**0.0000**	**0.0000**	**0.0282**

3.8 Rough 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					0.1500	0.0000	0.1500	0.0561	0.0000	0.0561	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0487	0.5412	0.3146	8.0000e-004		0.0213	0.0213		0.0196	0.0196	0.0000	70.4860	70.4860	0.0228	0.0000	71.0559
Total	**0.0487**	**0.5412**	**0.3146**	**8.0000e-004**	**0.1500**	**0.0213**	**0.1713**	**0.0561**	**0.0196**	**0.0757**	**0.0000**	**70.4860**	**70.4860**	**0.0228**	**0.0000**	**71.0559**

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	2.6000e-004	9.6700e-003	1.9200e-003	3.0000e-005	6.6000e-004	1.0000e-005	6.8000e-004	1.9000e-004	1.0000e-005	2.1000e-004	0.0000	2.6449	2.6449	1.7000e-004	0.0000	2.6492
Worker	1.1600e-003	8.4000e-004	8.8200e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.0000e-004	0.0000	2.3682	2.3682	6.0000e-005	0.0000	2.3698
Total	**1.4200e-003**	**0.0105**	**0.0107**	**6.0000e-005**	**3.6200e-003**	**3.0000e-005**	**3.6600e-003**	**9.8000e-004**	**3.0000e-005**	**1.0100e-003**	**0.0000**	**5.0131**	**5.0131**	**2.3000e-004**	**0.0000**	**5.0190**

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					0.0641	0.0000	0.0641	0.0240	0.0000	0.0240	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0487	0.5412	0.3146	8.0000e-004		0.0213	0.0213		0.0196	0.0196	0.0000	70.4859	70.4859	0.0228	0.0000	71.0559
Total	**0.0487**	**0.5412**	**0.3146**	**8.0000e-004**	**0.0641**	**0.0213**	**0.0855**	**0.0240**	**0.0196**	**0.0436**	**0.0000**	**70.4859**	**70.4859**	**0.0228**	**0.0000**	**71.0559**

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	2.6000e-004	9.6700e-003	1.9200e-003	3.0000e-005	6.2000e-004	1.0000e-005	6.3000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	2.6449	2.6449	1.7000e-004	0.0000	2.6492
Worker	1.1600e-003	8.4000e-004	8.8200e-003	3.0000e-005	2.7300e-003	2.0000e-005	2.7500e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.3682	2.3682	6.0000e-005	0.0000	2.3698
Total	**1.4200e-003**	**0.0105**	**0.0107**	**6.0000e-005**	**3.3500e-003**	**3.0000e-005**	**3.3800e-003**	**9.1000e-004**	**3.0000e-005**	**9.4000e-004**	**0.0000**	**5.0131**	**5.0131**	**2.3000e-004**	**0.0000**	**5.0190**

3.9 Rough Grading Soil Haul - 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					8.5000e-004	0.0000	8.5000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4400e-003	0.0199	0.0203	9.0000e-005		6.7000e-004	6.7000e-004		6.1000e-004	6.1000e-004	0.0000	8.1391	8.1391	2.6300e-003	0.0000	8.2050
Total	**2.4400e-003**	**0.0199**	**0.0203**	**9.0000e-005**	**8.5000e-004**	**6.7000e-004**	**1.5200e-003**	**1.3000e-004**	**6.1000e-004**	**7.4000e-004**	**0.0000**	**8.1391**	**8.1391**	**2.6300e-003**	**0.0000**	**8.2050**

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	4.1400e-003	0.1700	0.0256	4.9000e-004	9.2300e-003	3.0000e-004	9.5300e-003	2.5400e-003	2.9000e-004	2.8200e-003	0.0000	46.8126	46.8126	3.5800e-003	0.0000	46.9022
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	9.0000e-005	9.3000e-004	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2500	0.2500	1.0000e-005	0.0000	0.2501
Total	**4.2600e-003**	**0.1701**	**0.0265**	**4.9000e-004**	**9.5400e-003**	**3.0000e-004**	**9.8400e-003**	**2.6200e-003**	**2.9000e-004**	**2.9000e-003**	**0.0000**	**47.0626**	**47.0626**	**3.5900e-003**	**0.0000**	**47.1524**

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					3.6000e-004	0.0000	3.6000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4400e-003	0.0199	0.0203	9.0000e-005		6.7000e-004	6.7000e-004		6.1000e-004	6.1000e-004	0.0000	8.1391	8.1391	2.6300e-003	0.0000	8.2049
Total	**2.4400e-003**	**0.0199**	**0.0203**	**9.0000e-005**	**3.6000e-004**	**6.7000e-004**	**1.0300e-003**	**5.0000e-005**	**6.1000e-004**	**6.6000e-004**	**0.0000**	**8.1391**	**8.1391**	**2.6300e-003**	**0.0000**	**8.2049**

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	4.1400e-003	0.1700	0.0256	4.9000e-004	8.6100e-003	3.0000e-004	8.9100e-003	2.3800e-003	2.9000e-004	2.6700e-003	0.0000	46.8126	46.8126	3.5800e-003	0.0000	46.9022
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	9.0000e-005	9.3000e-004	0.0000	2.9000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2500	0.2500	1.0000e-005	0.0000	0.2501
Total	**4.2600e-003**	**0.1701**	**0.0265**	**4.9000e-004**	**8.9000e-003**	**3.0000e-004**	**9.2000e-003**	**2.4600e-003**	**2.9000e-004**	**2.7500e-003**	**0.0000**	**47.0626**	**47.0626**	**3.5900e-003**	**0.0000**	**47.1524**

3.10 Utility Trenching - 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	0.0173	0.1627	0.1386	5.2000e-004		5.9900e-003	5.9900e-003		5.5100e-003	5.5100e-003	0.0000	45.5806	45.5806	0.0147	0.0000	45.9491
Total	**0.0173**	**0.1627**	**0.1386**	**5.2000e-004**		**5.9900e-003**	**5.9900e-003**		**5.5100e-003**	**5.5100e-003**	**0.0000**	**45.5806**	**45.5806**	**0.0147**	**0.0000**	**45.9491**

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	3.5000e-004	0.0129	2.5700e-003	4.0000e-005	8.8000e-004	2.0000e-005	9.0000e-004	2.5000e-004	2.0000e-005	2.7000e-004	0.0000	3.5265	3.5265	2.3000e-004	0.0000	3.5323
Worker	1.9300e-003	1.4000e-003	0.0146	4.0000e-005	4.9100e-003	3.0000e-005	4.9400e-003	1.3000e-003	3.0000e-005	1.3300e-003	0.0000	3.9295	3.9295	1.0000e-004	0.0000	3.9320
Total	**2.2800e-003**	**0.0143**	**0.0172**	**8.0000e-005**	**5.7900e-003**	**5.0000e-005**	**5.8400e-003**	**1.5500e-003**	**5.0000e-005**	**1.6000e-003**	**0.0000**	**7.4560**	**7.4560**	**3.3000e-004**	**0.0000**	**7.4643**

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	0.0173	0.1627	0.1386	5.2000e-004		5.9900e-003	5.9900e-003		5.5100e-003	5.5100e-003	0.0000	45.5805	45.5805	0.0147	0.0000	45.9491
Total	**0.0173**	**0.1627**	**0.1386**	**5.2000e-004**		**5.9900e-003**	**5.9900e-003**		**5.5100e-003**	**5.5100e-003**	**0.0000**	**45.5805**	**45.5805**	**0.0147**	**0.0000**	**45.9491**

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	3.5000e-004	0.0129	2.5700e-003	4.0000e-005	8.3000e-004	2.0000e-005	8.5000e-004	2.4000e-004	2.0000e-005	2.6000e-004	0.0000	3.5265	3.5265	2.3000e-004	0.0000	3.5323
Worker	1.9300e-003	1.4000e-003	0.0146	4.0000e-005	4.5300e-003	3.0000e-005	4.5600e-003	1.2100e-003	3.0000e-005	1.2400e-003	0.0000	3.9295	3.9295	1.0000e-004	0.0000	3.9320
Total	**2.2800e-003**	**0.0143**	**0.0172**	**8.0000e-005**	**5.3600e-003**	**5.0000e-005**	**5.4100e-003**	**1.4500e-003**	**5.0000e-005**	**1.5000e-003**	**0.0000**	**7.4560**	**7.4560**	**3.3000e-004**	**0.0000**	**7.4643**

3.11 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	0.1999	1.9920	1.4396	3.1400e-003		0.1069	0.1069		0.0984	0.0984	0.0000	275.8229	275.8229	0.0892	0.0000	278.0530
Total	**0.1999**	**1.9920**	**1.4396**	**3.1400e-003**		**0.1069**	**0.1069**		**0.0984**	**0.0984**	**0.0000**	**275.8229**	**275.8229**	**0.0892**	**0.0000**	**278.0530**

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	5.5000e-004	0.0206	4.1100e-003	6.0000e-005	1.4100e-003	3.0000e-005	1.4400e-003	4.1000e-004	3.0000e-005	4.4000e-004	0.0000	5.6424	5.6424	3.7000e-004	0.0000	5.6517
Worker	0.0289	0.0210	0.2196	6.5000e-004	0.0737	4.7000e-004	0.0742	0.0196	4.3000e-004	0.0200	0.0000	58.9421	58.9421	1.5400e-003	0.0000	58.9804
Total	**0.0295**	**0.0417**	**0.2237**	**7.1000e-004**	**0.0751**	**5.0000e-004**	**0.0756**	**0.0200**	**4.6000e-004**	**0.0204**	**0.0000**	**64.5845**	**64.5845**	**1.9100e-003**	**0.0000**	**64.6321**

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	0.1999	1.9920	1.4396	3.1400e-003		0.1069	0.1069		0.0984	0.0984	0.0000	275.8225	275.8225	0.0892	0.0000	278.0527
Total	**0.1999**	**1.9920**	**1.4396**	**3.1400e-003**		**0.1069**	**0.1069**		**0.0984**	**0.0984**	**0.0000**	**275.8225**	**275.8225**	**0.0892**	**0.0000**	**278.0527**

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	5.5000e-004	0.0206	4.1100e-003	6.0000e-005	1.3200e-003	3.0000e-005	1.3500e-003	3.9000e-004	3.0000e-005	4.2000e-004	0.0000	5.6424	5.6424	3.7000e-004	0.0000	5.6517
Worker	0.0289	0.0210	0.2196	6.5000e-004	0.0679	4.7000e-004	0.0684	0.0182	4.3000e-004	0.0186	0.0000	58.9421	58.9421	1.5400e-003	0.0000	58.9804
Total	**0.0295**	**0.0417**	**0.2237**	**7.1000e-004**	**0.0693**	**5.0000e-004**	**0.0698**	**0.0186**	**4.6000e-004**	**0.0190**	**0.0000**	**64.5845**	**64.5845**	**1.9100e-003**	**0.0000**	**64.6321**

3.12 Fine 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					8.4800e-003	0.0000	8.4800e-003	9.2000e-004	0.0000	9.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.0000e-003	0.0834	0.0317	1.1000e-004		3.0000e-003	3.0000e-003		2.7600e-003	2.7600e-003	0.0000	9.3832	9.3832	3.0300e-003	0.0000	9.4591
Total	**7.0000e-003**	**0.0834**	**0.0317**	**1.1000e-004**	**8.4800e-003**	**3.0000e-003**	**0.0115**	**9.2000e-004**	**2.7600e-003**	**3.6800e-003**	**0.0000**	**9.3832**	**9.3832**	**3.0300e-003**	**0.0000**	**9.4591**

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	8.0000e-005	2.9500e-003	5.9000e-004	1.0000e-005	2.0000e-004	0.0000	2.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.8061	0.8061	5.0000e-005	0.0000	0.8074
Worker	6.2000e-004	4.5000e-004	4.7100e-003	1.0000e-005	1.5800e-003	1.0000e-005	1.5900e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.2630	1.2630	3.0000e-005	0.0000	1.2639
Total	**7.0000e-004**	**3.4000e-003**	**5.3000e-003**	**2.0000e-005**	**1.7800e-003**	**1.0000e-005**	**1.8000e-003**	**4.8000e-004**	**1.0000e-005**	**4.9000e-004**	**0.0000**	**2.0691**	**2.0691**	**8.0000e-005**	**0.0000**	**2.0713**

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					3.6300e-003	0.0000	3.6300e-003	3.9000e-004	0.0000	3.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.0000e-003	0.0834	0.0317	1.1000e-004		3.0000e-003	3.0000e-003		2.7600e-003	2.7600e-003	0.0000	9.3832	9.3832	3.0300e-003	0.0000	9.4590
Total	**7.0000e-003**	**0.0834**	**0.0317**	**1.1000e-004**	**3.6300e-003**	**3.0000e-003**	**6.6300e-003**	**3.9000e-004**	**2.7600e-003**	**3.1500e-003**	**0.0000**	**9.3832**	**9.3832**	**3.0300e-003**	**0.0000**	**9.4590**

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	8.0000e-005	2.9500e-003	5.9000e-004	1.0000e-005	1.9000e-004	0.0000	1.9000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.8061	0.8061	5.0000e-005	0.0000	0.8074
Worker	6.2000e-004	4.5000e-004	4.7100e-003	1.0000e-005	1.4600e-003	1.0000e-005	1.4700e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.2630	1.2630	3.0000e-005	0.0000	1.2639
Total	**7.0000e-004**	**3.4000e-003**	**5.3000e-003**	**2.0000e-005**	**1.6500e-003**	**1.0000e-005**	**1.6600e-003**	**4.5000e-004**	**1.0000e-005**	**4.6000e-004**	**0.0000**	**2.0691**	**2.0691**	**8.0000e-005**	**0.0000**	**2.0713**

3.13 Finishing/Landscaping - 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	0.0254	0.2509	0.2706	6.0000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	52.6613	52.6613	0.0170	0.0000	53.0871
Total	**0.0254**	**0.2509**	**0.2706**	**6.0000e-004**		**0.0110**	**0.0110**		**0.0101**	**0.0101**	**0.0000**	**52.6613**	**52.6613**	**0.0170**	**0.0000**	**53.0871**

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	6.2000e-004	0.0232	4.6200e-003	7.0000e-005	1.5900e-003	4.0000e-005	1.6200e-003	4.6000e-004	3.0000e-005	4.9000e-004	0.0000	6.3477	6.3477	4.2000e-004	0.0000	6.3582
Worker	3.6200e-003	2.6300e-003	0.0275	8.0000e-005	9.2100e-003	6.0000e-005	9.2700e-003	2.4500e-003	5.0000e-005	2.5000e-003	0.0000	7.3678	7.3678	1.9000e-004	0.0000	7.3726
Total	**4.2400e-003**	**0.0259**	**0.0321**	**1.5000e-004**	**0.0108**	**1.0000e-004**	**0.0109**	**2.9100e-003**	**8.0000e-005**	**2.9900e-003**	**0.0000**	**13.7155**	**13.7155**	**6.1000e-004**	**0.0000**	**13.7307**

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	0.0254	0.2509	0.2706	6.0000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	52.6613	52.6613	0.0170	0.0000	53.0871
Total	**0.0254**	**0.2509**	**0.2706**	**6.0000e-004**		**0.0110**	**0.0110**		**0.0101**	**0.0101**	**0.0000**	**52.6613**	**52.6613**	**0.0170**	**0.0000**	**53.0871**

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	6.2000e-004	0.0232	4.6200e-003	7.0000e-005	1.4900e-003	4.0000e-005	1.5200e-003	4.3000e-004	3.0000e-005	4.7000e-004	0.0000	6.3477	6.3477	4.2000e-004	0.0000	6.3582
Worker	3.6200e-003	2.6300e-003	0.0275	8.0000e-005	8.4900e-003	6.0000e-005	8.5500e-003	2.2700e-003	5.0000e-005	2.3200e-003	0.0000	7.3678	7.3678	1.9000e-004	0.0000	7.3726
Total	**4.2400e-003**	**0.0259**	**0.0321**	**1.5000e-004**	**9.9800e-003**	**1.0000e-004**	**0.0101**	**2.7000e-003**	**8.0000e-005**	**2.7900e-003**	**0.0000**	**13.7155**	**13.7155**	**6.1000e-004**	**0.0000**	**13.7307**

3.14 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.1333					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6000e-003	0.0317	0.0408	7.0000e-005		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003	0.0000	5.7448	5.7448	3.7000e-004	0.0000	5.7542
Total	**2.1379**	**0.0317**	**0.0408**	**7.0000e-005**		**1.8400e-003**	**1.8400e-003**		**1.8400e-003**	**1.8400e-003**	**0.0000**	**5.7448**	**5.7448**	**3.7000e-004**	**0.0000**	**5.7542**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1600e-003	8.4000e-004	8.8200e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.0000e-004	0.0000	2.3682	2.3682	6.0000e-005	0.0000	2.3698
Total	**1.1600e-003**	**8.4000e-004**	**8.8200e-003**	**3.0000e-005**	**2.9600e-003**	**2.0000e-005**	**2.9800e-003**	**7.9000e-004**	**2.0000e-005**	**8.0000e-004**	**0.0000**	**2.3682**	**2.3682**	**6.0000e-005**	**0.0000**	**2.3698**

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	2.1333					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6000e-003	0.0317	0.0408	7.0000e-005		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003	0.0000	5.7448	5.7448	3.7000e-004	0.0000	5.7542
Total	**2.1379**	**0.0317**	**0.0408**	**7.0000e-005**		**1.8400e-003**	**1.8400e-003**		**1.8400e-003**	**1.8400e-003**	**0.0000**	**5.7448**	**5.7448**	**3.7000e-004**	**0.0000**	**5.7542**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1600e-003	8.4000e-004	8.8200e-003	3.0000e-005	2.7300e-003	2.0000e-005	2.7500e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.3682	2.3682	6.0000e-005	0.0000	2.3698
Total	**1.1600e-003**	**8.4000e-004**	**8.8200e-003**	**3.0000e-005**	**2.7300e-003**	**2.0000e-005**	**2.7500e-003**	**7.3000e-004**	**2.0000e-005**	**7.5000e-004**	**0.0000**	**2.3682**	**2.3682**	**6.0000e-005**	**0.0000**	**2.3698**

3.15 Asphalt 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	2.5800e-003	0.0296	0.0215	5.0000e-005		1.2100e-003	1.2100e-003		1.1100e-003	1.1100e-003	0.0000	4.0175	4.0175	1.3000e-003	0.0000	4.0500
Paving	0.0127					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0153**	**0.0296**	**0.0215**	**5.0000e-005**		**1.2100e-003**	**1.2100e-003**		**1.1100e-003**	**1.1100e-003**	**0.0000**	**4.0175**	**4.0175**	**1.3000e-003**	**0.0000**	**4.0500**

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	6.4000e-004	0.0240	4.7700e-003	7.0000e-005	1.6400e-003	4.0000e-005	1.6800e-003	4.7000e-004	3.0000e-005	5.1000e-004	0.0000	6.5493	6.5493	4.3000e-004	0.0000	6.5600
Worker	2.2000e-004	1.6000e-004	1.6300e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4386	0.4386	1.0000e-005	0.0000	0.4388
Total	**8.6000e-004**	**0.0241**	**6.4000e-003**	**7.0000e-005**	**2.1900e-003**	**4.0000e-005**	**2.2300e-003**	**6.2000e-004**	**3.0000e-005**	**6.6000e-004**	**0.0000**	**6.9878**	**6.9878**	**4.4000e-004**	**0.0000**	**6.9988**

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	2.5800e-003	0.0296	0.0215	5.0000e-005		1.2100e-003	1.2100e-003		1.1100e-003	1.1100e-003	0.0000	4.0175	4.0175	1.3000e-003	0.0000	4.0500
Paving	0.0127					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0153**	**0.0296**	**0.0215**	**5.0000e-005**		**1.2100e-003**	**1.2100e-003**		**1.1100e-003**	**1.1100e-003**	**0.0000**	**4.0175**	**4.0175**	**1.3000e-003**	**0.0000**	**4.0500**

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	6.4000e-004	0.0240	4.7700e-003	7.0000e-005	1.5300e-003	4.0000e-005	1.5700e-003	4.5000e-004	3.0000e-005	4.8000e-004	0.0000	6.5493	6.5493	4.3000e-004	0.0000	6.5600
Worker	2.2000e-004	1.6000e-004	1.6300e-003	0.0000	5.1000e-004	0.0000	5.1000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4386	0.4386	1.0000e-005	0.0000	0.4388
Total	**8.6000e-004**	**0.0241**	**6.4000e-003**	**7.0000e-005**	**2.0400e-003**	**4.0000e-005**	**2.0800e-003**	**5.9000e-004**	**3.0000e-005**	**6.2000e-004**	**0.0000**	**6.9878**	**6.9878**	**4.4000e-004**	**0.0000**	**6.9988**

Phase 2 Construction

San Bernardino-South Coast County, 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
Asphalt Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Demolition Debris Haul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Demolition Debris Reprocessing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt 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
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
Building Demolition	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 Demolition Debris Haul	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 Demolition Debris Reprocessing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine 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
Finishing/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
Rough 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
Rough Grading Soil Haul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Utility Trenching	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

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
Concrete/Industrial Saws	Diesel	No Change	0	0	No Change	0.00
Cranes	Diesel	No Change	0	3	No Change	0.00
Crawler Tractors	Diesel	No Change	0	1	No Change	0.00
Crushing/Proc. Equipment	Diesel	No Change	0	2	No Change	0.00
Excavators	Diesel	No Change	0	11	No Change	0.00
Forklifts	Diesel	No Change	0	0	No Change	0.00
Generator Sets	Diesel	No Change	0	0	No Change	0.00
Graders	Diesel	No Change	0	5	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	0	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00
Rough Terrain Forklifts	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	2	No Change	0.00
Scrapers	Diesel	No Change	0	7	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	10	No Change	0.00
Welders	Diesel	No Change	0	0	No Change	0.00

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	4.60000E-003	3.16900E-002	4.08100E-002	7.00000E-005	1.84000E-003	1.84000E-003	0.00000E+000	5.74482E+000	5.74482E+000	3.70000E-004	0.00000E+000	5.75417E+000
Concrete/Industrial Saws	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	1.55300E-001	1.38385E+000	1.06753E+000	1.30000E-003	9.29600E-002	8.55300E-002	0.00000E+000	1.14593E+002	1.14593E+002	3.70600E-002	0.00000E+000	1.15520E+002
Crawler Tractors	3.72000E-003	4.01200E-002	2.80100E-002	7.00000E-005	1.62000E-003	1.49000E-003	0.00000E+000	6.29127E+000	6.29127E+000	2.03000E-003	0.00000E+000	6.34213E+000
Crushing/Proc. Equipment	1.88000E-003	1.20600E-002	7.23000E-003	3.00000E-005	4.20000E-004	4.20000E-004	0.00000E+000	3.45753E+000	3.45753E+000	1.50000E-004	0.00000E+000	3.46133E+000
Excavators	1.79700E-002	1.63740E-001	1.39820E-001	6.30000E-004	5.44000E-003	5.01000E-003	0.00000E+000	5.52893E+001	5.52893E+001	1.78800E-002	0.00000E+000	5.57364E+001

Forklifts	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
Generator Sets	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
Graders	1.34700E-002	1.70630E-001	5.58800E-002	2.10000E-004	5.43000E-003	4.99000E-003	0.00000E+000	1.88807E+001	1.88807E+001	6.11000E-003	0.00000E+000	1.90334E+001
Pavers	6.90000E-004	6.98000E-003	9.59000E-003	2.00000E-005	3.30000E-004	3.10000E-004	0.00000E+000	1.37403E+000	1.37403E+000	4.40000E-004	0.00000E+000	1.38514E+000
Paving Equipment	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
Rollers	5.70000E-004	5.93000E-003	6.39000E-003	1.00000E-005	3.40000E-004	3.10000E-004	0.00000E+000	7.92410E-001	7.92410E-001	2.60000E-004	0.00000E+000	7.98820E-001
Rough Terrain Forklifts	4.45600E-002	6.08120E-001	3.72060E-001	1.84000E-003	1.39600E-002	1.28500E-002	0.00000E+000	1.61229E+002	1.61229E+002	5.21400E-002	0.00000E+000	1.62533E+002
Rubber Tired Dozers	9.96000E-003	1.04670E-001	4.26400E-002	1.00000E-004	4.97000E-003	4.57000E-003	0.00000E+000	8.93039E+000	8.93039E+000	2.89000E-003	0.00000E+000	9.00259E+000
Scrapers	2.99000E-002	3.25900E-001	2.25240E-001	5.40000E-004	1.28600E-002	1.18300E-002	0.00000E+000	4.76179E+001	4.76179E+001	1.54000E-002	0.00000E+000	4.80029E+001
Tractors/Loaders/Backhoes	4.36600E-002	4.43280E-001	4.07090E-001	1.05000E-003	1.80800E-002	1.66400E-002	0.00000E+000	9.22709E+001	9.22709E+001	2.98400E-002	0.00000E+000	9.30170E+001
Welders	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

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	4.60000E-003	3.16900E-002	4.08100E-002	7.00000E-005	1.84000E-003	1.84000E-003	0.00000E+000	5.74481E+000	5.74481E+000	3.70000E-004	0.00000E+000	5.75416E+000
Concrete/Industrial Saws	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	1.55300E-001	1.38385E+000	1.06753E+000	1.30000E-003	9.29600E-002	8.55300E-002	0.00000E+000	1.14593E+002	1.14593E+002	3.70600E-002	0.00000E+000	1.15520E+002
Crawler Tractors	3.72000E-003	4.01200E-002	2.80100E-002	7.00000E-005	1.62000E-003	1.49000E-003	0.00000E+000	6.29126E+000	6.29126E+000	2.03000E-003	0.00000E+000	6.34213E+000
Crushing/Proc. Equipment	1.88000E-003	1.20600E-002	7.23000E-003	3.00000E-005	4.20000E-004	4.20000E-004	0.00000E+000	3.45753E+000	3.45753E+000	1.50000E-004	0.00000E+000	3.46133E+000
Excavators	1.79700E-002	1.63740E-001	1.39820E-001	6.30000E-004	5.44000E-003	5.01000E-003	0.00000E+000	5.52893E+001	5.52893E+001	1.78800E-002	0.00000E+000	5.57363E+001
Forklifts	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
Generator Sets	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
Graders	1.34700E-002	1.70630E-001	5.58800E-002	2.10000E-004	5.43000E-003	4.99000E-003	0.00000E+000	1.88807E+001	1.88807E+001	6.11000E-003	0.00000E+000	1.90333E+001
Pavers	6.90000E-004	6.98000E-003	9.59000E-003	2.00000E-005	3.30000E-004	3.10000E-004	0.00000E+000	1.37403E+000	1.37403E+000	4.40000E-004	0.00000E+000	1.38514E+000
Paving Equipment	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
Rollers	5.70000E-004	5.93000E-003	6.39000E-003	1.00000E-005	3.40000E-004	3.10000E-004	0.00000E+000	7.92410E-001	7.92410E-001	2.60000E-004	0.00000E+000	7.98820E-001
Rough Terrain Forklifts	4.45600E-002	6.08120E-001	3.72060E-001	1.84000E-003	1.39600E-002	1.28500E-002	0.00000E+000	1.61229E+002	1.61229E+002	5.21400E-002	0.00000E+000	1.62533E+002
Rubber Tired Dozers	9.96000E-003	1.04670E-001	4.26400E-002	1.00000E-004	4.97000E-003	4.57000E-003	0.00000E+000	8.93037E+000	8.93037E+000	2.89000E-003	0.00000E+000	9.00258E+000

Scrapers	2.99000E-002	3.25900E-001	2.25240E-001	5.40000E-004	1.28600E-002	1.18300E-002	0.00000E+000	4.76178E+001	4.76178E+001	1.54000E-002	0.00000E+000	4.80029E+001
Tractors/Loaders/Backhoes	4.36600E-002	4.43280E-001	4.07090E-001	1.05000E-003	1.80800E-002	1.66400E-002	0.00000E+000	9.22708E+001	9.22708E+001	2.98400E-002	0.00000E+000	9.30169E+001
Welders	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

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	1.74070E-006	1.74070E-006	0.00000E+000	0.00000E+000	1.73787E-006
Concrete/Industrial Saws	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	1.22171E-006	1.22171E-006	0.00000E+000	0.00000E+000	1.12535E-006
Crawler Tractors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.58950E-006	1.58950E-006	0.00000E+000	0.00000E+000	0.00000E+000
Crushing/Proc. Equipment	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
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.08520E-006	1.08520E-006	0.00000E+000	0.00000E+000	1.25591E-006
Forklifts	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
Generator Sets	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
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.58892E-006	1.58892E-006	0.00000E+000	0.00000E+000	1.57618E-006
Pavers	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
Paving Equipment	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
Rollers	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
Rough Terrain Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17844E-006	1.17844E-006	0.00000E+000	0.00000E+000	1.16899E-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	2.23954E-006	2.23954E-006	0.00000E+000	0.00000E+000	1.11079E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.26003E-006	1.26003E-006	0.00000E+000	0.00000E+000	1.24992E-006
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19214E-006	1.19214E-006	0.00000E+000	0.00000E+000	1.18258E-006
Welders	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

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		
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	9.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	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	0.08	0.08
Asphalt Demolition	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Demolition	Roads	0.00	0.00	0.00	0.00	0.07	0.06
Asphalt Demolition Debris Haul	Fugitive Dust	0.00	0.00	0.00	0.00	0.57	0.55
Asphalt Demolition Debris Haul	Roads	0.00	0.00	0.00	0.00	0.11	0.00
Asphalt Demolition Debris Reprocessing	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Demolition Debris Reprocessing	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Paving	Roads	0.00	0.00	0.00	0.00	0.07	0.05
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.08	0.02	0.07	0.02	0.08	0.07
Building Demolition	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Demolition	Roads	0.00	0.00	0.00	0.00	0.09	0.15
Building Demolition Debris Haul	Fugitive Dust	0.00	0.00	0.00	0.00	0.57	0.60
Building Demolition Debris Haul	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Building Demolition Debris Reprocessing	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Demolition Debris Reprocessing	Roads	0.00	0.00	0.00	0.00	0.14	0.00
Fine Grading	Fugitive Dust	0.01	0.00	0.00	0.00	0.57	0.58
Fine Grading	Roads	0.00	0.00	0.00	0.00	0.07	0.06
Finishing/Landscaping	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Finishing/Landscaping	Roads	0.01	0.00	0.01	0.00	0.08	0.07
Rough Grading	Fugitive Dust	0.15	0.06	0.06	0.02	0.57	0.57
Rough Grading	Roads	0.00	0.00	0.00	0.00	0.07	0.07
Rough Grading Soil Haul	Fugitive Dust	0.00	0.00	0.00	0.00	0.58	0.62
Rough Grading Soil Haul	Roads	0.01	0.00	0.01	0.00	0.07	0.06
Utility Trenching	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Utility Trenching	Roads	0.01	0.00	0.01	0.00	0.07	0.06

CalEEMod Output: Offsite Construction

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Offsite Construction

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	13.22	Acre	13.22	576,000.00	0
Other Non-Asphalt Surfaces	3.07	Acre	3.07	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided. See assumptions in the AQ/GHG appendix for details.

Construction Phase - Based on information provided. See assumptions in the AQ/GHG appendix for details.

Off-road Equipment - See assumptions in the AQ/GHG appendix for details.

Off-road Equipment - See assumptions in the AQ/GHG appendix for details.

Off-road Equipment - See assumptions in the AQ/GHG appendix for details.

Off-road Equipment - See assumptions in the AQ/GHG appendix for details.

Off-road Equipment - See assumptions in the AQ/GHG appendix for details.

Off-road Equipment - See assumptions in the AQ/GHG appendix for details.

Grading -

Trips and VMT - See assumptions file in the AQ/GHG appendix for details.

Construction Off-road Equipment Mitigation - Based on SCAQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	30.00	43.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	PhaseEndDate	12/23/2020	10/31/2021
tblConstructionPhase	PhaseEndDate	3/16/2022	11/30/2021
tblConstructionPhase	PhaseStartDate	11/12/2020	9/1/2021
tblConstructionPhase	PhaseStartDate	2/17/2022	11/1/2021
tblLandUse	LandUseSquareFeet	575,993.88	576,000.00
tblLandUse	LandUseSquareFeet	133,816.32	0.00
tblOffRoadEquipment	HorsePower	85.00	325.00
tblOffRoadEquipment	HorsePower	97.00	127.00
tblOffRoadEquipment	HorsePower	97.00	230.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes

tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00

tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	8.00	30.00
tblTripsAndVMT	WorkerTripNumber	10.00	30.00
tblTripsAndVMT	WorkerTripNumber	10.00	30.00
tblTripsAndVMT	WorkerTripNumber	13.00	30.00
tblTripsAndVMT	WorkerTripNumber	8.00	30.00

2.0 Emissions Summary

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					
2020	2.8162	22.6859	13.0801	0.0401	0.4073	0.9923	1.3995	0.1089	0.9369	1.0458	0.0000	4,273.2710	4,273.2710	0.5053	0.0000	4,285.9038
2021	3.2171	21.1809	22.7499	0.0450	0.7475	1.0378	1.7853	0.2000	0.9954	1.1954	0.0000	4,341.1604	4,341.1604	0.7845	0.0000	4,358.2865
2022	0.7466	6.0594	7.5835	0.0175	0.3353	0.2630	0.5983	0.0889	0.2419	0.3309	0.0000	1,698.5043	1,698.5043	0.4554	0.0000	1,709.8890
Maximum	**3.2171**	**22.6859**	**22.7499**	**0.0450**	**0.7475**	**1.0378**	**1.7853**	**0.2000**	**0.9954**	**1.1954**	**0.0000**	**4,341.1604**	**4,341.1604**	**0.7845**	**0.0000**	**4,358.2865**

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					
2020	2.8162	22.6859	13.0801	0.0401	0.3760	0.9923	1.3682	0.1012	0.9369	1.0381	0.0000	4,273.2710	4,273.2710	0.5053	0.0000	4,285.9038
2021	3.2171	21.1809	22.7499	0.0450	0.6901	1.0378	1.7279	0.1859	0.9954	1.1813	0.0000	4,341.1604	4,341.1604	0.7845	0.0000	4,358.2865
2022	0.7466	6.0594	7.5835	0.0175	0.3091	0.2630	0.5721	0.0825	0.2419	0.3244	0.0000	1,698.5043	1,698.5043	0.4554	0.0000	1,709.8890
Maximum	**3.2171**	**22.6859**	**22.7499**	**0.0450**	**0.6901**	**1.0378**	**1.7279**	**0.1859**	**0.9954**	**1.1813**	**0.0000**	**4,341.1604**	**4,341.1604**	**0.7845**	**0.0000**	**4,358.2865**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**7.71**	**0.00**	**3.04**	**7.09**	**0.00**	**1.10**	**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	Asphalt Demolition	Demolition	10/1/2020	10/28/2020	5	20	
2	Asphalt Demolition Debris Reprocessing	Demolition	10/1/2020	10/28/2020	5	20	
3	Utility Trenching	Trenching	1/2/2021	9/1/2021	5	173	
4	Fine Grading	Grading	9/1/2021	10/31/2021	5	43	
5	Asphalt Paving	Paving	11/1/2021	11/30/2021	5	22	
6	Finishing/Landscaping	Trenching	11/1/2021	1/31/2022	5	66	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 16.29

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Asphalt Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Asphalt Demolition	Excavators	0	8.00	158	0.38
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Fine Grading	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Reprocessing	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Reprocessing	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Reprocessing	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Paving	Pavers	0	8.00	130	0.42
Asphalt Paving	Rollers	2	8.00	80	0.38
Asphalt Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grading	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Dumpers/Tenders	1	8.00	16	0.38
Fine Grading	Graders	0	8.00	187	0.41
Fine Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Asphalt Paving	Paving Equipment	1	8.00	132	0.36
Asphalt Demolition Debris Reprocessing	Crushing/Proc. Equipment	1	8.00	325	0.78
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Fine Grading	Scrapers	0	8.00	367	0.48
Utility Trenching	Concrete/Industrial Saws	1	8.00	81	0.73
Utility Trenching	Excavators	1	8.00	158	0.38
Utility Trenching	Cranes	1	8.00	231	0.29
Utility Trenching	Dumpers/Tenders	1	8.00	16	0.38
Fine Grading	Air Compressors	1	8.00	78	0.48
Fine Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Fine Grading	Dumpers/Tenders	1	8.00	16	0.38

Asphalt Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	127	0.37
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	230	0.37
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	93	0.37

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
Asphalt Demolition	3	30.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Reprocessing	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	4	30.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	5	30.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	4	30.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	3	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Asphalt Demolition - 2020

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	1.3616	13.8938	6.6529	0.0124		0.7053	0.7053		0.6503	0.6503		1,187.832	1,187.8320	0.3710		1,197.107
Total	**1.3616**	**13.8938**	**6.6529**	**0.0124**		**0.7053**	**0.7053**		**0.6503**	**0.6503**		**1,187.832**	**1,187.8320**	**0.3710**		**1,197.107**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0182	0.6332	0.1234	1.6300e-003	0.0384	2.9100e-003	0.0413	0.0111	2.7900e-003	0.0139		171.6608	171.6608	0.0112		171.9396
Worker	0.1637	0.1051	1.3492	3.4100e-003	0.3353	2.2000e-003	0.3375	0.0889	2.0200e-003	0.0910		339.0252	339.0252	0.0104		339.2840
Total	**0.1819**	**0.7383**	**1.4726**	**5.0400e-003**	**0.3738**	**5.1100e-003**	**0.3789**	**0.1000**	**4.8100e-003**	**0.1048**		**510.6861**	**510.6861**	**0.0215**		**511.2236**

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	1.3616	13.8938	6.6529	0.0124		0.7053	0.7053		0.6503	0.6503	0.0000	1,187.8320	1,187.8320	0.3710		1,197.1070
Total	**1.3616**	**13.8938**	**6.6529**	**0.0124**		**0.7053**	**0.7053**		**0.6503**	**0.6503**	**0.0000**	**1,187.8320**	**1,187.8320**	**0.3710**		**1,197.1070**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0182	0.6332	0.1234	1.6300e-003	0.0360	2.9100e-003	0.0389	0.0105	2.7900e-003	0.0133		171.6608	171.6608	0.0112		171.9396
Worker	0.1637	0.1051	1.3492	3.4100e-003	0.3091	2.2000e-003	0.3113	0.0825	2.0200e-003	0.0845		339.0252	339.0252	0.0104		339.2840
Total	**0.1819**	**0.7383**	**1.4726**	**5.0400e-003**	**0.3451**	**5.1100e-003**	**0.3502**	**0.0930**	**4.8100e-003**	**0.0978**		**510.6861**	**510.6861**	**0.0215**		**511.2236**

3.3 Asphalt Demolition Debris Reprocessing - 2020

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	1.2563	8.0433	4.8197	0.0224		0.2817	0.2817		0.2817	0.2817		2,540.8504	2,540.8504	0.1118		2,543.6448
Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**		**0.2817**	**0.2817**		**0.2817**	**0.2817**		**2,540.8504**	**2,540.8504**	**0.1118**		**2,543.6448**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0164	0.0105	0.1349	3.4000e-004	0.0335	2.2000e-004	0.0338	8.8900e-003	2.0000e-004	9.1000e-003		33.9025	33.9025	1.0300e-003		33.9284
Total	**0.0164**	**0.0105**	**0.1349**	**3.4000e-004**	**0.0335**	**2.2000e-004**	**0.0338**	**8.8900e-003**	**2.0000e-004**	**9.1000e-003**		**33.9025**	**33.9025**	**1.0300e-003**		**33.9284**

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	1.2563	8.0433	4.8197	0.0224		0.2817	0.2817		0.2817	0.2817	0.0000	2,540.8504	2,540.8504	0.1118		2,543.6448
Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**		**0.2817**	**0.2817**		**0.2817**	**0.2817**	**0.0000**	**2,540.8504**	**2,540.8504**	**0.1118**		**2,543.6448**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0164	0.0105	0.1349	3.4000e-004	0.0309	2.2000e-004	0.0311	8.2500e-003	2.0000e-004	8.4500e-003		33.9025	33.9025	1.0300e-003		33.9284
Total	**0.0164**	**0.0105**	**0.1349**	**3.4000e-004**	**0.0309**	**2.2000e-004**	**0.0311**	**8.2500e-003**	**2.0000e-004**	**8.4500e-003**		**33.9025**	**33.9025**	**1.0300e-003**		**33.9284**

3.4 Utility Trenching - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2876	12.4011	11.4398	0.0211		0.6037	0.6037		0.5707	0.5707		2,013.4358	2,013.4358	0.4808		2,025.4546
Total	**1.2876**	**12.4011**	**11.4398**	**0.0211**		**0.6037**	**0.6037**		**0.5707**	**0.5707**		**2,013.4358**	**2,013.4358**	**0.4808**		**2,025.4546**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0155	0.5786	0.1089	1.6200e-003	0.0384	9.9000e-004	0.0394	0.0111	9.5000e-004	0.0120		170.7536	170.7536	0.0108		171.0234
Worker	0.1524	0.0942	1.2420	3.3000e-003	0.3353	2.1400e-003	0.3375	0.0889	1.9800e-003	0.0909		328.2242	328.2242	9.3400e-003		328.4577
Total	**0.1680**	**0.6728**	**1.3508**	**4.9200e-003**	**0.3738**	**3.1300e-003**	**0.3769**	**0.1000**	**2.9300e-003**	**0.1029**		**498.9777**	**498.9777**	**0.0201**		**499.4811**

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	1.2876	12.4011	11.4398	0.0211		0.6037	0.6037		0.5707	0.5707	0.0000	2,013.4358	2,013.4358	0.4808		2,025.4546
Total	**1.2876**	**12.4011**	**11.4398**	**0.0211**		**0.6037**	**0.6037**		**0.5707**	**0.5707**	**0.0000**	**2,013.4358**	**2,013.4358**	**0.4808**		**2,025.4546**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0155	0.5786	0.1089	1.6200e-003	0.0360	9.9000e-004	0.0370	0.0105	9.5000e-004	0.0114		170.7536	170.7536	0.0108		171.0234
Worker	0.1524	0.0942	1.2420	3.3000e-003	0.3091	2.1400e-003	0.3112	0.0825	1.9800e-003	0.0845		328.2242	328.2242	9.3400e-003		328.4577
Total	**0.1680**	**0.6728**	**1.3508**	**4.9200e-003**	**0.3451**	**3.1300e-003**	**0.3482**	**0.0930**	**2.9300e-003**	**0.0959**		**498.9777**	**498.9777**	**0.0201**		**499.4811**

3.5 Fine Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.9374	7.4341	8.6085	0.0141		0.4278	0.4278		0.4189	0.4189		1,329.7691	1,329.7691	0.1640		1,333.8698
Total	**0.9374**	**7.4341**	**8.6085**	**0.0141**	**0.0000**	**0.4278**	**0.4278**	**0.0000**	**0.4189**	**0.4189**		**1,329.7691**	**1,329.7691**	**0.1640**		**1,333.8698**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0155	0.5786	0.1089	1.6200e-003	0.0384	9.9000e-004	0.0394	0.0111	9.5000e-004	0.0120		170.7536	170.7536	0.0108		171.0234
Worker	0.1524	0.0942	1.2420	3.3000e-003	0.3353	2.1400e-003	0.3375	0.0889	1.9800e-003	0.0909		328.2242	328.2242	9.3400e-003		328.4577
Total	**0.1680**	**0.6728**	**1.3508**	**4.9200e-003**	**0.3738**	**3.1300e-003**	**0.3769**	**0.1000**	**2.9300e-003**	**0.1029**		**498.9777**	**498.9777**	**0.0201**		**499.4811**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.9374	7.4341	8.6085	0.0141		0.4278	0.4278		0.4189	0.4189	0.0000	1,329.7691	1,329.7691	0.1640		1,333.8698
Total	**0.9374**	**7.4341**	**8.6085**	**0.0141**	**0.0000**	**0.4278**	**0.4278**	**0.0000**	**0.4189**	**0.4189**	**0.0000**	**1,329.7691**	**1,329.7691**	**0.1640**		**1,333.8698**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0155	0.5786	0.1089	1.6200e-003	0.0360	9.9000e-004	0.0370	0.0105	9.5000e-004	0.0114		170.7536	170.7536	0.0108		171.0234
Worker	0.1524	0.0942	1.2420	3.3000e-003	0.3091	2.1400e-003	0.3112	0.0825	1.9800e-003	0.0845		328.2242	328.2242	9.3400e-003		328.4577
Total	**0.1680**	**0.6728**	**1.3508**	**4.9200e-003**	**0.3451**	**3.1300e-003**	**0.3482**	**0.0930**	**2.9300e-003**	**0.0959**		**498.9777**	**498.9777**	**0.0201**		**499.4811**

3.6 Asphalt Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6298	6.1569	6.6106	0.0100		0.3454	0.3454		0.3189	0.3189		953.1498	953.1498	0.2972		960.5792
Paving	1.5744					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.2042**	**6.1569**	**6.6106**	**0.0100**		**0.3454**	**0.3454**		**0.3189**	**0.3189**		**953.1498**	**953.1498**	**0.2972**		**960.5792**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0311	1.1573	0.2178	3.2400e-003	0.0769	1.9800e-003	0.0788	0.0221	1.9000e-003	0.0240		341.5072	341.5072	0.0216		342.0467
Worker	0.1524	0.0942	1.2420	3.3000e-003	0.3353	2.1400e-003	0.3375	0.0889	1.9800e-003	0.0909		328.2242	328.2242	9.3400e-003		328.4577
Total	**0.1835**	**1.2515**	**1.4597**	**6.5400e-003**	**0.4122**	**4.1200e-003**	**0.4163**	**0.1111**	**3.8800e-003**	**0.1149**		**669.7313**	**669.7313**	**0.0309**		**670.5044**

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	0.6298	6.1569	6.6106	0.0100		0.3454	0.3454		0.3189	0.3189	0.0000	953.1498	953.1498	0.2972		960.5792
Paving	1.5744					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.2042**	**6.1569**	**6.6106**	**0.0100**		**0.3454**	**0.3454**		**0.3189**	**0.3189**	**0.0000**	**953.1498**	**953.1498**	**0.2972**		**960.5792**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0311	1.1573	0.2178	3.2400e-003	0.0719	1.9800e-003	0.0739	0.0209	1.9000e-003	0.0228		341.5072	341.5072	0.0216		342.0467
Worker	0.1524	0.0942	1.2420	3.3000e-003	0.3091	2.1400e-003	0.3112	0.0825	1.9800e-003	0.0845		328.2242	328.2242	9.3400e-003		328.4577
Total	**0.1835**	**1.2515**	**1.4597**	**6.5400e-003**	**0.3810**	**4.1200e-003**	**0.3852**	**0.1034**	**3.8800e-003**	**0.1073**		**669.7313**	**669.7313**	**0.0309**		**670.5044**

3.7 Finishing/Landscaping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6771	7.0827	6.5087	0.0143		0.3135	0.3135		0.2884	0.2884		1,382.2459	1,382.2459	0.4471		1,393.4220
Total	**0.6771**	**7.0827**	**6.5087**	**0.0143**		**0.3135**	**0.3135**		**0.2884**	**0.2884**		**1,382.2459**	**1,382.2459**	**0.4471**		**1,393.4220**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1524	0.0942	1.2420	3.3000e-003	0.3353	2.1400e-003	0.3375	0.0889	1.9800e-003	0.0909		328.2242	328.2242	9.3400e-003		328.4577
Total	**0.1524**	**0.0942**	**1.2420**	**3.3000e-003**	**0.3353**	**2.1400e-003**	**0.3375**	**0.0889**	**1.9800e-003**	**0.0909**		**328.2242**	**328.2242**	**9.3400e-003**		**328.4577**

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	0.6771	7.0827	6.5087	0.0143		0.3135	0.3135		0.2884	0.2884	0.0000	1,382.2459	1,382.2459	0.4471		1,393.4220
Total	**0.6771**	**7.0827**	**6.5087**	**0.0143**		**0.3135**	**0.3135**		**0.2884**	**0.2884**	**0.0000**	**1,382.2459**	**1,382.2459**	**0.4471**		**1,393.4220**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1524	0.0942	1.2420	3.3000e-003	0.3091	2.1400e-003	0.3112	0.0825	1.9800e-003	0.0845		328.2242	328.2242	9.3400e-003		328.4577
Total	**0.1524**	**0.0942**	**1.2420**	**3.3000e-003**	**0.3091**	**2.1400e-003**	**0.3112**	**0.0825**	**1.9800e-003**	**0.0845**		**328.2242**	**328.2242**	**9.3400e-003**		**328.4577**

3.7 Finishing/Landscaping - 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	0.6043	5.9747	6.4425	0.0143		0.2609	0.2609		0.2400	0.2400		1,382.1236	1,382.1236	0.4470		1,393.2988
Total	**0.6043**	**5.9747**	**6.4425**	**0.0143**		**0.2609**	**0.2609**		**0.2400**	**0.2400**		**1,382.1236**	**1,382.1236**	**0.4470**		**1,393.2988**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1424	0.0847	1.1409	3.1800e-003	0.3353	2.0800e-003	0.3374	0.0889	1.9200e-003	0.0909		316.3807	316.3807	8.3800e-003		316.5902
Total	**0.1424**	**0.0847**	**1.1409**	**3.1800e-003**	**0.3353**	**2.0800e-003**	**0.3374**	**0.0889**	**1.9200e-003**	**0.0909**		**316.3807**	**316.3807**	**8.3800e-003**		**316.5902**

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	0.6043	5.9747	6.4425	0.0143		0.2609	0.2609		0.2400	0.2400	0.0000	1,382.1236	1,382.1236	0.4470		1,393.2988
Total	**0.6043**	**5.9747**	**6.4425**	**0.0143**		**0.2609**	**0.2609**		**0.2400**	**0.2400**	**0.0000**	**1,382.1236**	**1,382.1236**	**0.4470**		**1,393.2988**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1424	0.0847	1.1409	3.1800e-003	0.3091	2.0800e-003	0.3112	0.0825	1.9200e-003	0.0844		316.3807	316.3807	8.3800e-003		316.5902
Total	**0.1424**	**0.0847**	**1.1409**	**3.1800e-003**	**0.3091**	**2.0800e-003**	**0.3112**	**0.0825**	**1.9200e-003**	**0.0844**		**316.3807**	**316.3807**	**8.3800e-003**		**316.5902**

Offsite Construction

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	13.22	Acre	13.22	576,000.00	0
Other Non-Asphalt Surfaces	3.07	Acre	3.07	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided. See assumptions in the AQ/GHG appendix for details.

Construction Phase - Based on information provided. See assumptions in the AQ/GHG appendix for details.

Off-road Equipment - See assumptions in the AQ/GHG appendix for details.

Off-road Equipment - See assumptions in the AQ/GHG appendix for details.

Off-road Equipment - See assumptions in the AQ/GHG appendix for details.

Off-road Equipment - See assumptions in the AQ/GHG appendix for details.

Off-road Equipment - See assumptions in the AQ/GHG appendix for details.

Off-road Equipment - See assumptions in the AQ/GHG appendix for details.

Grading -

Trips and VMT - See assumptions file in the AQ/GHG appendix for details.

Construction Off-road Equipment Mitigation - Based on SCAQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	30.00	43.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	PhaseEndDate	12/23/2020	10/31/2021
tblConstructionPhase	PhaseEndDate	3/16/2022	11/30/2021
tblConstructionPhase	PhaseStartDate	11/12/2020	9/1/2021
tblConstructionPhase	PhaseStartDate	2/17/2022	11/1/2021
tblLandUse	LandUseSquareFeet	575,993.88	576,000.00
tblLandUse	LandUseSquareFeet	133,816.32	0.00
tblOffRoadEquipment	HorsePower	85.00	325.00
tblOffRoadEquipment	HorsePower	97.00	127.00
tblOffRoadEquipment	HorsePower	97.00	230.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes

tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00

tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	8.00	30.00
tblTripsAndVMT	WorkerTripNumber	10.00	30.00
tblTripsAndVMT	WorkerTripNumber	10.00	30.00
tblTripsAndVMT	WorkerTripNumber	13.00	30.00
tblTripsAndVMT	WorkerTripNumber	8.00	30.00

2.0 Emissions Summary

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					
2020	2.8173	22.6868	12.8354	0.0396	0.4073	0.9923	1.3996	0.1089	0.9370	1.0459	0.0000	4,228.2199	4,228.2199	0.5051	0.0000	4,240.8472
2021	3.2197	21.1783	22.3403	0.0442	0.7475	1.0379	1.7854	0.2000	0.9954	1.1954	0.0000	4,260.3456	4,260.3456	0.7845	0.0000	4,277.4729
2022	0.7473	6.0637	7.3768	0.0171	0.3353	0.2630	0.5983	0.0889	0.2419	0.3309	0.0000	1,665.9674	1,665.9674	0.4544	0.0000	1,677.3265
Maximum	**3.2197**	**22.6868**	**22.3403**	**0.0442**	**0.7475**	**1.0379**	**1.7854**	**0.2000**	**0.9954**	**1.1954**	**0.0000**	**4,260.3456**	**4,260.3456**	**0.7845**	**0.0000**	**4,277.4729**

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					
2020	2.8173	22.6868	12.8354	0.0396	0.3760	0.9923	1.3683	0.1012	0.9370	1.0382	0.0000	4,228.2199	4,228.2199	0.5051	0.0000	4,240.8472
2021	3.2197	21.1783	22.3403	0.0442	0.6901	1.0379	1.7280	0.1859	0.9954	1.1814	0.0000	4,260.3456	4,260.3456	0.7845	0.0000	4,277.4729
2022	0.7473	6.0637	7.3768	0.0171	0.3091	0.2630	0.5721	0.0825	0.2419	0.3244	0.0000	1,665.9674	1,665.9674	0.4544	0.0000	1,677.3265
Maximum	**3.2197**	**22.6868**	**22.3403**	**0.0442**	**0.6901**	**1.0379**	**1.7280**	**0.1859**	**0.9954**	**1.1814**	**0.0000**	**4,260.3456**	**4,260.3456**	**0.7845**	**0.0000**	**4,277.4729**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**7.71**	**0.00**	**3.04**	**7.09**	**0.00**	**1.10**	**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	Asphalt Demolition	Demolition	10/1/2020	10/28/2020	5	20	
2	Asphalt Demolition Debris Reprocessing	Demolition	10/1/2020	10/28/2020	5	20	
3	Utility Trenching	Trenching	1/2/2021	9/1/2021	5	173	
4	Fine Grading	Grading	9/1/2021	10/31/2021	5	43	
5	Asphalt Paving	Paving	11/1/2021	11/30/2021	5	22	
6	Finishing/Landscaping	Trenching	11/1/2021	1/31/2022	5	66	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 16.29

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Asphalt Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Asphalt Demolition	Excavators	0	8.00	158	0.38
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Fine Grading	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Reprocessing	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Reprocessing	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Reprocessing	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Paving	Pavers	0	8.00	130	0.42
Asphalt Paving	Rollers	2	8.00	80	0.38
Asphalt Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grading	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Dumpers/Tenders	1	8.00	16	0.38
Fine Grading	Graders	0	8.00	187	0.41
Fine Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Asphalt Paving	Paving Equipment	1	8.00	132	0.36
Asphalt Demolition Debris Reprocessing	Crushing/Proc. Equipment	1	8.00	325	0.78
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Fine Grading	Scrapers	0	8.00	367	0.48
Utility Trenching	Concrete/Industrial Saws	1	8.00	81	0.73
Utility Trenching	Excavators	1	8.00	158	0.38
Utility Trenching	Cranes	1	8.00	231	0.29
Utility Trenching	Dumpers/Tenders	1	8.00	16	0.38
Fine Grading	Air Compressors	1	8.00	78	0.48
Fine Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Fine Grading	Dumpers/Tenders	1	8.00	16	0.38

Asphalt Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	127	0.37
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	230	0.37
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	93	0.37

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
Asphalt Demolition	3	30.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Reprocessing	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	4	30.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	5	30.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	4	30.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	3	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Asphalt Demolition - 2020

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	1.3616	13.8938	6.6529	0.0124		0.7053	0.7053		0.6503	0.6503		1,187.832	1,187.8320	0.3710		1,197.107
Total	**1.3616**	**13.8938**	**6.6529**	**0.0124**		**0.7053**	**0.7053**		**0.6503**	**0.6503**		**1,187.832**	**1,187.8320**	**0.3710**		**1,197.107**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0192	0.6280	0.1430	1.5600e-003	0.0384	2.9500e-003	0.0414	0.0111	2.8200e-003	0.0139		165.0001	165.0001	0.0123		165.3083
Worker	0.1638	0.1106	1.1089	3.0500e-003	0.3353	2.2000e-003	0.3375	0.0889	2.0200e-003	0.0910		304.1249	304.1249	9.0800e-003		304.3519
Total	**0.1830**	**0.7386**	**1.2519**	**4.6100e-003**	**0.3738**	**5.1500e-003**	**0.3789**	**0.1000**	**4.8400e-003**	**0.1048**		**469.1250**	**469.1250**	**0.0214**		**469.6602**

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	1.3616	13.8938	6.6529	0.0124		0.7053	0.7053		0.6503	0.6503	0.0000	1,187.8320	1,187.8320	0.3710		1,197.1070
Total	**1.3616**	**13.8938**	**6.6529**	**0.0124**		**0.7053**	**0.7053**		**0.6503**	**0.6503**	**0.0000**	**1,187.8320**	**1,187.8320**	**0.3710**		**1,197.1070**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0192	0.6280	0.1430	1.5600e-003	0.0360	2.9500e-003	0.0389	0.0105	2.8200e-003	0.0133		165.0001	165.0001	0.0123		165.3083
Worker	0.1638	0.1106	1.1089	3.0500e-003	0.3091	2.2000e-003	0.3113	0.0825	2.0200e-003	0.0845		304.1249	304.1249	9.0800e-003		304.3519
Total	**0.1830**	**0.7386**	**1.2519**	**4.6100e-003**	**0.3451**	**5.1500e-003**	**0.3502**	**0.0930**	**4.8400e-003**	**0.0978**		**469.1250**	**469.1250**	**0.0214**		**469.6602**

3.3 Asphalt Demolition Debris Reprocessing - 2020

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	1.2563	8.0433	4.8197	0.0224		0.2817	0.2817		0.2817	0.2817		2,540.8504	2,540.8504	0.1118		2,543.6448
Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**		**0.2817**	**0.2817**		**0.2817**	**0.2817**		**2,540.8504**	**2,540.8504**	**0.1118**		**2,543.6448**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0164	0.0111	0.1109	3.1000e-004	0.0335	2.2000e-004	0.0338	8.8900e-003	2.0000e-004	9.1000e-003		30.4125	30.4125	9.1000e-004		30.4352
Total	**0.0164**	**0.0111**	**0.1109**	**3.1000e-004**	**0.0335**	**2.2000e-004**	**0.0338**	**8.8900e-003**	**2.0000e-004**	**9.1000e-003**		**30.4125**	**30.4125**	**9.1000e-004**		**30.4352**

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	1.2563	8.0433	4.8197	0.0224		0.2817	0.2817		0.2817	0.2817	0.0000	2,540.8504	2,540.8504	0.1118		2,543.6448
Total	**1.2563**	**8.0433**	**4.8197**	**0.0224**		**0.2817**	**0.2817**		**0.2817**	**0.2817**	**0.0000**	**2,540.8504**	**2,540.8504**	**0.1118**		**2,543.6448**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0164	0.0111	0.1109	3.1000e-004	0.0309	2.2000e-004	0.0311	8.2500e-003	2.0000e-004	8.4500e-003		30.4125	30.4125	9.1000e-004		30.4352
Total	**0.0164**	**0.0111**	**0.1109**	**3.1000e-004**	**0.0309**	**2.2000e-004**	**0.0311**	**8.2500e-003**	**2.0000e-004**	**8.4500e-003**		**30.4125**	**30.4125**	**9.1000e-004**		**30.4352**

3.4 Utility Trenching - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2876	12.4011	11.4398	0.0211		0.6037	0.6037		0.5707	0.5707		2,013.4358	2,013.4358	0.4808		2,025.4546
Total	**1.2876**	**12.4011**	**11.4398**	**0.0211**		**0.6037**	**0.6037**		**0.5707**	**0.5707**		**2,013.4358**	**2,013.4358**	**0.4808**		**2,025.4546**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0165	0.5725	0.1274	1.5600e-003	0.0384	1.0200e-003	0.0395	0.0111	9.8000e-004	0.0120		164.1211	164.1211	0.0120		164.4201
Worker	0.1528	0.0991	1.0187	2.9600e-003	0.3353	2.1400e-003	0.3375	0.0889	1.9800e-003	0.0909		294.4493	294.4493	8.2000e-003		294.6542
Total	**0.1692**	**0.6716**	**1.1460**	**4.5200e-003**	**0.3738**	**3.1600e-003**	**0.3769**	**0.1000**	**2.9600e-003**	**0.1030**		**458.5704**	**458.5704**	**0.0202**		**459.0743**

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	1.2876	12.4011	11.4398	0.0211		0.6037	0.6037		0.5707	0.5707	0.0000	2,013.4358	2,013.4358	0.4808		2,025.4546
Total	**1.2876**	**12.4011**	**11.4398**	**0.0211**		**0.6037**	**0.6037**		**0.5707**	**0.5707**	**0.0000**	**2,013.4358**	**2,013.4358**	**0.4808**		**2,025.4546**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0165	0.5725	0.1274	1.5600e-003	0.0360	1.0200e-003	0.0370	0.0105	9.8000e-004	0.0114		164.1211	164.1211	0.0120		164.4201
Worker	0.1528	0.0991	1.0187	2.9600e-003	0.3091	2.1400e-003	0.3112	0.0825	1.9800e-003	0.0845		294.4493	294.4493	8.2000e-003		294.6542
Total	**0.1692**	**0.6716**	**1.1460**	**4.5200e-003**	**0.3451**	**3.1600e-003**	**0.3482**	**0.0930**	**2.9600e-003**	**0.0959**		**458.5704**	**458.5704**	**0.0202**		**459.0743**

3.5 Fine Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.9374	7.4341	8.6085	0.0141		0.4278	0.4278		0.4189	0.4189		1,329.7691	1,329.7691	0.1640		1,333.8698
Total	**0.9374**	**7.4341**	**8.6085**	**0.0141**	**0.0000**	**0.4278**	**0.4278**	**0.0000**	**0.4189**	**0.4189**		**1,329.7691**	**1,329.7691**	**0.1640**		**1,333.8698**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0165	0.5725	0.1274	1.5600e-003	0.0384	1.0200e-003	0.0395	0.0111	9.8000e-004	0.0120		164.1211	164.1211	0.0120		164.4201
Worker	0.1528	0.0991	1.0187	2.9600e-003	0.3353	2.1400e-003	0.3375	0.0889	1.9800e-003	0.0909		294.4493	294.4493	8.2000e-003		294.6542
Total	**0.1692**	**0.6716**	**1.1460**	**4.5200e-003**	**0.3738**	**3.1600e-003**	**0.3769**	**0.1000**	**2.9600e-003**	**0.1030**		**458.5704**	**458.5704**	**0.0202**		**459.0743**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.9374	7.4341	8.6085	0.0141		0.4278	0.4278		0.4189	0.4189	0.0000	1,329.7691	1,329.7691	0.1640		1,333.8698
Total	**0.9374**	**7.4341**	**8.6085**	**0.0141**	**0.0000**	**0.4278**	**0.4278**	**0.0000**	**0.4189**	**0.4189**	**0.0000**	**1,329.7691**	**1,329.7691**	**0.1640**		**1,333.8698**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0165	0.5725	0.1274	1.5600e-003	0.0360	1.0200e-003	0.0370	0.0105	9.8000e-004	0.0114		164.1211	164.1211	0.0120		164.4201
Worker	0.1528	0.0991	1.0187	2.9600e-003	0.3091	2.1400e-003	0.3112	0.0825	1.9800e-003	0.0845		294.4493	294.4493	8.2000e-003		294.6542
Total	**0.1692**	**0.6716**	**1.1460**	**4.5200e-003**	**0.3451**	**3.1600e-003**	**0.3482**	**0.0930**	**2.9600e-003**	**0.0959**		**458.5704**	**458.5704**	**0.0202**		**459.0743**

3.6 Asphalt Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6298	6.1569	6.6106	0.0100		0.3454	0.3454		0.3189	0.3189		953.1498	953.1498	0.2972		960.5792
Paving	1.5744					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.2042**	**6.1569**	**6.6106**	**0.0100**		**0.3454**	**0.3454**		**0.3189**	**0.3189**		**953.1498**	**953.1498**	**0.2972**		**960.5792**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0329	1.1449	0.2547	3.1100e-003	0.0769	2.0400e-003	0.0789	0.0221	1.9500e-003	0.0241		328.2422	328.2422	0.0239		328.8402
Worker	0.1528	0.0991	1.0187	2.9600e-003	0.3353	2.1400e-003	0.3375	0.0889	1.9800e-003	0.0909		294.4493	294.4493	8.2000e-003		294.6542
Total	**0.1857**	**1.2440**	**1.2734**	**6.0700e-003**	**0.4122**	**4.1800e-003**	**0.4164**	**0.1111**	**3.9300e-003**	**0.1150**		**622.6915**	**622.6915**	**0.0321**		**623.4944**

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	0.6298	6.1569	6.6106	0.0100		0.3454	0.3454		0.3189	0.3189	0.0000	953.1498	953.1498	0.2972		960.5792
Paving	1.5744					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.2042**	**6.1569**	**6.6106**	**0.0100**		**0.3454**	**0.3454**		**0.3189**	**0.3189**	**0.0000**	**953.1498**	**953.1498**	**0.2972**		**960.5792**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0329	1.1449	0.2547	3.1100e-003	0.0719	2.0400e-003	0.0740	0.0209	1.9500e-003	0.0229		328.2422	328.2422	0.0239		328.8402
Worker	0.1528	0.0991	1.0187	2.9600e-003	0.3091	2.1400e-003	0.3112	0.0825	1.9800e-003	0.0845		294.4493	294.4493	8.2000e-003		294.6542
Total	**0.1857**	**1.2440**	**1.2734**	**6.0700e-003**	**0.3810**	**4.1800e-003**	**0.3852**	**0.1034**	**3.9300e-003**	**0.1073**		**622.6915**	**622.6915**	**0.0321**		**623.4944**

3.7 Finishing/Landscaping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6771	7.0827	6.5087	0.0143		0.3135	0.3135		0.2884	0.2884		1,382.2459	1,382.2459	0.4471		1,393.4220
Total	**0.6771**	**7.0827**	**6.5087**	**0.0143**		**0.3135**	**0.3135**		**0.2884**	**0.2884**		**1,382.2459**	**1,382.2459**	**0.4471**		**1,393.4220**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1528	0.0991	1.0187	2.9600e-003	0.3353	2.1400e-003	0.3375	0.0889	1.9800e-003	0.0909		294.4493	294.4493	8.2000e-003		294.6542
Total	**0.1528**	**0.0991**	**1.0187**	**2.9600e-003**	**0.3353**	**2.1400e-003**	**0.3375**	**0.0889**	**1.9800e-003**	**0.0909**		**294.4493**	**294.4493**	**8.2000e-003**		**294.6542**

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	0.6771	7.0827	6.5087	0.0143		0.3135	0.3135		0.2884	0.2884	0.0000	1,382.2459	1,382.2459	0.4471		1,393.4220
Total	**0.6771**	**7.0827**	**6.5087**	**0.0143**		**0.3135**	**0.3135**		**0.2884**	**0.2884**	**0.0000**	**1,382.2459**	**1,382.2459**	**0.4471**		**1,393.4220**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1528	0.0991	1.0187	2.9600e-003	0.3091	2.1400e-003	0.3112	0.0825	1.9800e-003	0.0845		294.4493	294.4493	8.2000e-003		294.6542
Total	**0.1528**	**0.0991**	**1.0187**	**2.9600e-003**	**0.3091**	**2.1400e-003**	**0.3112**	**0.0825**	**1.9800e-003**	**0.0845**		**294.4493**	**294.4493**	**8.2000e-003**		**294.6542**

3.7 Finishing/Landscaping - 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	0.6043	5.9747	6.4425	0.0143		0.2609	0.2609		0.2400	0.2400		1,382.1236	1,382.1236	0.4470		1,393.2988
Total	**0.6043**	**5.9747**	**6.4425**	**0.0143**		**0.2609**	**0.2609**		**0.2400**	**0.2400**		**1,382.1236**	**1,382.1236**	**0.4470**		**1,393.2988**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1430	0.0891	0.9343	2.8500e-003	0.3353	2.0800e-003	0.3374	0.0889	1.9200e-003	0.0909		283.8438	283.8438	7.3600e-003		284.0277
Total	**0.1430**	**0.0891**	**0.9343**	**2.8500e-003**	**0.3353**	**2.0800e-003**	**0.3374**	**0.0889**	**1.9200e-003**	**0.0909**		**283.8438**	**283.8438**	**7.3600e-003**		**284.0277**

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	0.6043	5.9747	6.4425	0.0143		0.2609	0.2609		0.2400	0.2400	0.0000	1,382.1236	1,382.1236	0.4470		1,393.2988
Total	**0.6043**	**5.9747**	**6.4425**	**0.0143**		**0.2609**	**0.2609**		**0.2400**	**0.2400**	**0.0000**	**1,382.1236**	**1,382.1236**	**0.4470**		**1,393.2988**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1430	0.0891	0.9343	2.8500e-003	0.3091	2.0800e-003	0.3112	0.0825	1.9200e-003	0.0844		283.8438	283.8438	7.3600e-003		284.0277
Total	**0.1430**	**0.0891**	**0.9343**	**2.8500e-003**	**0.3091**	**2.0800e-003**	**0.3112**	**0.0825**	**1.9200e-003**	**0.0844**		**283.8438**	**283.8438**	**7.3600e-003**		**284.0277**

Offsite Construction

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	13.22	Acre	13.22	576,000.00	0
Other Non-Asphalt Surfaces	3.07	Acre	3.07	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided. See assumptions in the AQ/GHG appendix for details.

Construction Phase - Based on information provided. See assumptions in the AQ/GHG appendix for details.

Off-road Equipment - See assumptions in the AQ/GHG appendix for details.

Off-road Equipment - See assumptions in the AQ/GHG appendix for details.

Off-road Equipment - See assumptions in the AQ/GHG appendix for details.

Off-road Equipment - See assumptions in the AQ/GHG appendix for details.

Off-road Equipment - See assumptions in the AQ/GHG appendix for details.

Off-road Equipment - See assumptions in the AQ/GHG appendix for details.

Grading -

Trips and VMT - See assumptions file in the AQ/GHG appendix for details.

Construction Off-road Equipment Mitigation - Based on SCAQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	30.00	43.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	PhaseEndDate	12/23/2020	10/31/2021
tblConstructionPhase	PhaseEndDate	3/16/2022	11/30/2021
tblConstructionPhase	PhaseStartDate	11/12/2020	9/1/2021
tblConstructionPhase	PhaseStartDate	2/17/2022	11/1/2021
tblLandUse	LandUseSquareFeet	575,993.88	576,000.00
tblLandUse	LandUseSquareFeet	133,816.32	0.00
tblOffRoadEquipment	HorsePower	85.00	325.00
tblOffRoadEquipment	HorsePower	97.00	127.00
tblOffRoadEquipment	HorsePower	97.00	230.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment

tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00

tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	8.00	30.00
tblTripsAndVMT	WorkerTripNumber	10.00	30.00
tblTripsAndVMT	WorkerTripNumber	10.00	30.00
tblTripsAndVMT	WorkerTripNumber	13.00	30.00
tblTripsAndVMT	WorkerTripNumber	8.00	30.00

2.0 Emissions Summary

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					
2020	0.0280	0.2271	0.1289	4.0000e-004	4.0000e-003	9.9200e-003	0.0139	1.0700e-003	9.3700e-003	0.0104	0.0000	38.4594	38.4594	4.5800e-003	0.0000	38.5738
2021	0.1926	1.5503	1.5605	3.1900e-003	0.0515	0.0727	0.1242	0.0138	0.0688	0.0826	0.0000	280.0936	280.0936	0.0554	0.0000	281.4794
2022	7.7000e-003	0.0637	0.0779	1.8000e-004	3.4500e-003	2.7600e-003	6.2200e-003	9.2000e-004	2.5400e-003	3.4600e-003	0.0000	15.9282	15.9282	4.3300e-003	0.0000	16.0365
Maximum	**0.1926**	**1.5503**	**1.5605**	**3.1900e-003**	**0.0515**	**0.0727**	**0.1242**	**0.0138**	**0.0688**	**0.0826**	**0.0000**	**280.0936**	**280.0936**	**0.0554**	**0.0000**	**281.4794**

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					
2020	0.0280	0.2271	0.1289	4.0000e-004	3.6900e-003	9.9200e-003	0.0136	9.9000e-004	9.3700e-003	0.0104	0.0000	38.4593	38.4593	4.5800e-003	0.0000	38.5738
2021	0.1926	1.5503	1.5605	3.1900e-003	0.0475	0.0727	0.1202	0.0128	0.0688	0.0816	0.0000	280.0933	280.0933	0.0554	0.0000	281.4791
2022	7.7000e-003	0.0637	0.0779	1.8000e-004	3.1800e-003	2.7600e-003	5.9500e-003	8.5000e-004	2.5400e-003	3.3900e-003	0.0000	15.9282	15.9282	4.3300e-003	0.0000	16.0365
Maximum	**0.1926**	**1.5503**	**1.5605**	**3.1900e-003**	**0.0475**	**0.0727**	**0.1202**	**0.0128**	**0.0688**	**0.0816**	**0.0000**	**280.0933**	**280.0933**	**0.0554**	**0.0000**	**281.4791**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**7.67**	**0.00**	**3.14**	**7.10**	**0.00**	**1.16**	**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	**10-1-2020**	**12-31-2020**	0.3483	0.3483
2	**1-1-2021**	**3-31-2021**	0.4618	0.4618
3	**4-1-2021**	**6-30-2021**	0.4722	0.4722
4	**7-1-2021**	**9-30-2021**	0.4256	0.4256
5	**10-1-2021**	**12-31-2021**	0.3814	0.3814
6	**1-1-2022**	**3-31-2022**	0.0754	0.0754
		Highest	0.4722	0.4722

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Asphalt Demolition	Demolition	10/1/2020	10/28/2020	5	20	
2	Asphalt Demolition Debris Reprocessing	Demolition	10/1/2020	10/28/2020	5	20	
3	Utility Trenching	Trenching	1/2/2021	9/1/2021	5	173	
4	Fine Grading	Grading	9/1/2021	10/31/2021	5	43	
5	Asphalt Paving	Paving	11/1/2021	11/30/2021	5	22	
6	Finishing/Landscaping	Trenching	11/1/2021	1/31/2022	5	66	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 16.29

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Asphalt Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Asphalt Demolition	Excavators	0	8.00	158	0.38
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Fine Grading	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Reprocessing	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Reprocessing	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Reprocessing	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Paving	Pavers	0	8.00	130	0.42
Asphalt Paving	Rollers	2	8.00	80	0.38

Asphalt Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grading	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Dumpers/Tenders	1	8.00	16	0.38
Fine Grading	Graders	0	8.00	187	0.41
Fine Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Asphalt Paving	Paving Equipment	1	8.00	132	0.36
Asphalt Demolition Debris	Crushing/Proc. Equipment	1	8.00	325	0.78
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Fine Grading	Scrapers	0	8.00	367	0.48
Utility Trenching	Concrete/Industrial Saws	1	8.00	81	0.73
Utility Trenching	Excavators	1	8.00	158	0.38
Utility Trenching	Cranes	1	8.00	231	0.29
Utility Trenching	Dumpers/Tenders	1	8.00	16	0.38
Fine Grading	Air Compressors	1	8.00	78	0.48
Fine Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Fine Grading	Dumpers/Tenders	1	8.00	16	0.38
Asphalt Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	127	0.37
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	230	0.37
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	93	0.37

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
Asphalt Demolition	3	30.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Reprocessing	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	4	30.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	5	30.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	4	30.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	3	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Asphalt Demolition - 2020

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	0.0136	0.1389	0.0665	1.2000e-004		7.0500e-003	7.0500e-003		6.5000e-003	6.5000e-003	0.0000	10.7758	10.7758	3.3700e-003	0.0000	10.8600
Total	**0.0136**	**0.1389**	**0.0665**	**1.2000e-004**		**7.0500e-003**	**7.0500e-003**		**6.5000e-003**	**6.5000e-003**	**0.0000**	**10.7758**	**10.7758**	**3.3700e-003**	**0.0000**	**10.8600**

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	1.9000e-004	6.4100e-003	1.3400e-003	2.0000e-005	3.8000e-004	3.0000e-005	4.1000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.5319	1.5319	1.1000e-004	0.0000	1.5346
Worker	1.4800e-003	1.1600e-003	0.0116	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.8195	2.8195	8.0000e-005	0.0000	2.8216
Total	**1.6700e-003**	**7.5700e-003**	**0.0130**	**5.0000e-005**	**3.6700e-003**	**5.0000e-005**	**3.7200e-003**	**9.8000e-004**	**5.0000e-005**	**1.0300e-003**	**0.0000**	**4.3514**	**4.3514**	**1.9000e-004**	**0.0000**	**4.3561**

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	0.0136	0.1389	0.0665	1.2000e-004		7.0500e-003	7.0500e-003		6.5000e-003	6.5000e-003	0.0000	10.7758	10.7758	3.3700e-003	0.0000	10.8600
Total	**0.0136**	**0.1389**	**0.0665**	**1.2000e-004**		**7.0500e-003**	**7.0500e-003**		**6.5000e-003**	**6.5000e-003**	**0.0000**	**10.7758**	**10.7758**	**3.3700e-003**	**0.0000**	**10.8600**

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	1.9000e-004	6.4100e-003	1.3400e-003	2.0000e-005	3.5000e-004	3.0000e-005	3.8000e-004	1.0000e-004	3.0000e-005	1.3000e-004	0.0000	1.5319	1.5319	1.1000e-004	0.0000	1.5346
Worker	1.4800e-003	1.1600e-003	0.0116	3.0000e-005	3.0300e-003	2.0000e-005	3.0500e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.8195	2.8195	8.0000e-005	0.0000	2.8216
Total	**1.6700e-003**	**7.5700e-003**	**0.0130**	**5.0000e-005**	**3.3800e-003**	**5.0000e-005**	**3.4300e-003**	**9.1000e-004**	**5.0000e-005**	**9.6000e-004**	**0.0000**	**4.3514**	**4.3514**	**1.9000e-004**	**0.0000**	**4.3561**

3.3 Asphalt Demolition Debris Reprocessing - 2020

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	0.0126	0.0804	0.0482	2.2000e-004		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	23.0502	23.0502	1.0100e-003	0.0000	23.0756
Total	**0.0126**	**0.0804**	**0.0482**	**2.2000e-004**		**2.8200e-003**	**2.8200e-003**		**2.8200e-003**	**2.8200e-003**	**0.0000**	**23.0502**	**23.0502**	**1.0100e-003**	**0.0000**	**23.0756**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.2000e-004	1.1600e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2820	0.2820	1.0000e-005	0.0000	0.2822
Total	**1.5000e-004**	**1.2000e-004**	**1.1600e-003**	**0.0000**	**3.3000e-004**	**0.0000**	**3.3000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.2820**	**0.2820**	**1.0000e-005**	**0.0000**	**0.2822**

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	0.0126	0.0804	0.0482	2.2000e-004		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	23.0502	23.0502	1.0100e-003	0.0000	23.0755
Total	**0.0126**	**0.0804**	**0.0482**	**2.2000e-004**		**2.8200e-003**	**2.8200e-003**		**2.8200e-003**	**2.8200e-003**	**0.0000**	**23.0502**	**23.0502**	**1.0100e-003**	**0.0000**	**23.0755**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.2000e-004	1.1600e-003	0.0000	3.0000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2820	0.2820	1.0000e-005	0.0000	0.2822
Total	**1.5000e-004**	**1.2000e-004**	**1.1600e-003**	**0.0000**	**3.0000e-004**	**0.0000**	**3.1000e-004**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**0.0000**	**0.2820**	**0.2820**	**1.0000e-005**	**0.0000**	**0.2822**

3.4 Utility Trenching - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1114	1.0727	0.9895	1.8200e-003		0.0522	0.0522		0.0494	0.0494	0.0000	157.9973	157.9973	0.0377	0.0000	158.9404
Total	**0.1114**	**1.0727**	**0.9895**	**1.8200e-003**		**0.0522**	**0.0522**		**0.0494**	**0.0494**	**0.0000**	**157.9973**	**157.9973**	**0.0377**	**0.0000**	**158.9404**

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	1.3800e-003	0.0505	0.0103	1.4000e-004	3.2700e-003	9.0000e-005	3.3600e-003	9.4000e-004	8.0000e-005	1.0300e-003	0.0000	13.1807	13.1807	8.9000e-004	0.0000	13.2029
Worker	0.0119	9.0300e-003	0.0925	2.6000e-004	0.0285	1.9000e-004	0.0286	7.5600e-003	1.7000e-004	7.7300e-003	0.0000	23.6119	23.6119	6.6000e-004	0.0000	23.6284
Total	**0.0133**	**0.0595**	**0.1027**	**4.0000e-004**	**0.0317**	**2.8000e-004**	**0.0320**	**8.5000e-003**	**2.5000e-004**	**8.7600e-003**	**0.0000**	**36.7926**	**36.7926**	**1.5500e-003**	**0.0000**	**36.8313**

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	0.1114	1.0727	0.9895	1.8200e-003		0.0522	0.0522		0.0494	0.0494	0.0000	157.9971	157.9971	0.0377	0.0000	158.9402
Total	**0.1114**	**1.0727**	**0.9895**	**1.8200e-003**		**0.0522**	**0.0522**		**0.0494**	**0.0494**	**0.0000**	**157.9971**	**157.9971**	**0.0377**	**0.0000**	**158.9402**

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	1.3800e-003	0.0505	0.0103	1.4000e-004	3.0600e-003	9.0000e-005	3.1500e-003	8.9000e-004	8.0000e-005	9.8000e-004	0.0000	13.1807	13.1807	8.9000e-004	0.0000	13.2029
Worker	0.0119	9.0300e-003	0.0925	2.6000e-004	0.0262	1.9000e-004	0.0264	7.0100e-003	1.7000e-004	7.1800e-003	0.0000	23.6119	23.6119	6.6000e-004	0.0000	23.6284
Total	**0.0133**	**0.0595**	**0.1027**	**4.0000e-004**	**0.0293**	**2.8000e-004**	**0.0296**	**7.9000e-003**	**2.5000e-004**	**8.1600e-003**	**0.0000**	**36.7926**	**36.7926**	**1.5500e-003**	**0.0000**	**36.8313**

3.5 Fine Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0202	0.1598	0.1851	3.0000e-004		9.2000e-003	9.2000e-003		9.0100e-003	9.0100e-003	0.0000	25.9364	25.9364	3.2000e-003	0.0000	26.0164
Total	**0.0202**	**0.1598**	**0.1851**	**3.0000e-004**	**0.0000**	**9.2000e-003**	**9.2000e-003**	**0.0000**	**9.0100e-003**	**9.0100e-003**	**0.0000**	**25.9364**	**25.9364**	**3.2000e-003**	**0.0000**	**26.0164**

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	3.4000e-004	0.0126	2.5500e-003	3.0000e-005	8.1000e-004	2.0000e-005	8.3000e-004	2.3000e-004	2.0000e-005	2.6000e-004	0.0000	3.2761	3.2761	2.2000e-004	0.0000	3.2816
Worker	2.9700e-003	2.2400e-003	0.0230	6.0000e-005	7.0700e-003	5.0000e-005	7.1200e-003	1.8800e-003	4.0000e-005	1.9200e-003	0.0000	5.8689	5.8689	1.6000e-004	0.0000	5.8730
Total	**3.3100e-003**	**0.0148**	**0.0255**	**9.0000e-005**	**7.8800e-003**	**7.0000e-005**	**7.9500e-003**	**2.1100e-003**	**6.0000e-005**	**2.1800e-003**	**0.0000**	**9.1450**	**9.1450**	**3.8000e-004**	**0.0000**	**9.1546**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0202	0.1598	0.1851	3.0000e-004		9.2000e-003	9.2000e-003		9.0100e-003	9.0100e-003	0.0000	25.9364	25.9364	3.2000e-003	0.0000	26.0164
Total	**0.0202**	**0.1598**	**0.1851**	**3.0000e-004**	**0.0000**	**9.2000e-003**	**9.2000e-003**	**0.0000**	**9.0100e-003**	**9.0100e-003**	**0.0000**	**25.9364**	**25.9364**	**3.2000e-003**	**0.0000**	**26.0164**

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	3.4000e-004	0.0126	2.5500e-003	3.0000e-005	7.6000e-004	2.0000e-005	7.8000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	3.2761	3.2761	2.2000e-004	0.0000	3.2816
Worker	2.9700e-003	2.2400e-003	0.0230	6.0000e-005	6.5200e-003	5.0000e-005	6.5700e-003	1.7400e-003	4.0000e-005	1.7900e-003	0.0000	5.8689	5.8689	1.6000e-004	0.0000	5.8730
Total	**3.3100e-003**	**0.0148**	**0.0255**	**9.0000e-005**	**7.2800e-003**	**7.0000e-005**	**7.3500e-003**	**1.9600e-003**	**6.0000e-005**	**2.0300e-003**	**0.0000**	**9.1450**	**9.1450**	**3.8000e-004**	**0.0000**	**9.1546**

3.6 Asphalt Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.9300e-003	0.0677	0.0727	1.1000e-004		3.8000e-003	3.8000e-003		3.5100e-003	3.5100e-003	0.0000	9.5115	9.5115	2.9700e-003	0.0000	9.5857
Paving	0.0173					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0243**	**0.0677**	**0.0727**	**1.1000e-004**		**3.8000e-003**	**3.8000e-003**		**3.5100e-003**	**3.5100e-003**	**0.0000**	**9.5115**	**9.5115**	**2.9700e-003**	**0.0000**	**9.5857**

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	3.5000e-004	0.0128	2.6100e-003	4.0000e-005	8.3000e-004	2.0000e-005	8.5000e-004	2.4000e-004	2.0000e-005	2.6000e-004	0.0000	3.3523	3.3523	2.3000e-004	0.0000	3.3580
Worker	1.5200e-003	1.1500e-003	0.0118	3.0000e-005	3.6200e-003	2.0000e-005	3.6400e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	3.0027	3.0027	8.0000e-005	0.0000	3.0048
Total	**1.8700e-003**	**0.0140**	**0.0144**	**7.0000e-005**	**4.4500e-003**	**4.0000e-005**	**4.4900e-003**	**1.2000e-003**	**4.0000e-005**	**1.2400e-003**	**0.0000**	**6.3550**	**6.3550**	**3.1000e-004**	**0.0000**	**6.3627**

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	6.9300e-003	0.0677	0.0727	1.1000e-004		3.8000e-003	3.8000e-003		3.5100e-003	3.5100e-003	0.0000	9.5115	9.5115	2.9700e-003	0.0000	9.5856
Paving	0.0173					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0243**	**0.0677**	**0.0727**	**1.1000e-004**		**3.8000e-003**	**3.8000e-003**		**3.5100e-003**	**3.5100e-003**	**0.0000**	**9.5115**	**9.5115**	**2.9700e-003**	**0.0000**	**9.5856**

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	3.5000e-004	0.0128	2.6100e-003	4.0000e-005	7.8000e-004	2.0000e-005	8.0000e-004	2.3000e-004	2.0000e-005	2.5000e-004	0.0000	3.3523	3.3523	2.3000e-004	0.0000	3.3580
Worker	1.5200e-003	1.1500e-003	0.0118	3.0000e-005	3.3400e-003	2.0000e-005	3.3600e-003	8.9000e-004	2.0000e-005	9.1000e-004	0.0000	3.0027	3.0027	8.0000e-005	0.0000	3.0048
Total	**1.8700e-003**	**0.0140**	**0.0144**	**7.0000e-005**	**4.1200e-003**	**4.0000e-005**	**4.1600e-003**	**1.1200e-003**	**4.0000e-005**	**1.1600e-003**	**0.0000**	**6.3550**	**6.3550**	**3.1000e-004**	**0.0000**	**6.3627**

3.7 Finishing/Landscaping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0152	0.1594	0.1464	3.2000e-004		7.0500e-003	7.0500e-003		6.4900e-003	6.4900e-003	0.0000	28.2139	28.2139	9.1200e-003	0.0000	28.4421
Total	**0.0152**	**0.1594**	**0.1464**	**3.2000e-004**		**7.0500e-003**	**7.0500e-003**		**6.4900e-003**	**6.4900e-003**	**0.0000**	**28.2139**	**28.2139**	**9.1200e-003**	**0.0000**	**28.4421**

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	3.1100e-003	2.3500e-003	0.0241	7.0000e-005	7.4000e-003	5.0000e-005	7.4500e-003	1.9700e-003	4.0000e-005	2.0100e-003	0.0000	6.1418	6.1418	1.7000e-004	0.0000	6.1461
Total	**3.1100e-003**	**2.3500e-003**	**0.0241**	**7.0000e-005**	**7.4000e-003**	**5.0000e-005**	**7.4500e-003**	**1.9700e-003**	**4.0000e-005**	**2.0100e-003**	**0.0000**	**6.1418**	**6.1418**	**1.7000e-004**	**0.0000**	**6.1461**

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	0.0152	0.1594	0.1464	3.2000e-004		7.0500e-003	7.0500e-003		6.4900e-003	6.4900e-003	0.0000	28.2139	28.2139	9.1200e-003	0.0000	28.4420
Total	**0.0152**	**0.1594**	**0.1464**	**3.2000e-004**		**7.0500e-003**	**7.0500e-003**		**6.4900e-003**	**6.4900e-003**	**0.0000**	**28.2139**	**28.2139**	**9.1200e-003**	**0.0000**	**28.4420**

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	3.1100e-003	2.3500e-003	0.0241	7.0000e-005	6.8200e-003	5.0000e-005	6.8700e-003	1.8200e-003	4.0000e-005	1.8700e-003	0.0000	6.1418	6.1418	1.7000e-004	0.0000	6.1461
Total	**3.1100e-003**	**2.3500e-003**	**0.0241**	**7.0000e-005**	**6.8200e-003**	**5.0000e-005**	**6.8700e-003**	**1.8200e-003**	**4.0000e-005**	**1.8700e-003**	**0.0000**	**6.1418**	**6.1418**	**1.7000e-004**	**0.0000**	**6.1461**

3.7 Finishing/Landscaping - 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	6.3400e-003	0.0627	0.0677	1.5000e-004		2.7400e-003	2.7400e-003		2.5200e-003	2.5200e-003	0.0000	13.1653	13.1653	4.2600e-003	0.0000	13.2718
Total	**6.3400e-003**	**0.0627**	**0.0677**	**1.5000e-004**		**2.7400e-003**	**2.7400e-003**		**2.5200e-003**	**2.5200e-003**	**0.0000**	**13.1653**	**13.1653**	**4.2600e-003**	**0.0000**	**13.2718**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3600e-003	9.9000e-004	0.0103	3.0000e-005	3.4500e-003	2.0000e-005	3.4800e-003	9.2000e-004	2.0000e-005	9.4000e-004	0.0000	2.7629	2.7629	7.0000e-005	0.0000	2.7647
Total	**1.3600e-003**	**9.9000e-004**	**0.0103**	**3.0000e-005**	**3.4500e-003**	**2.0000e-005**	**3.4800e-003**	**9.2000e-004**	**2.0000e-005**	**9.4000e-004**	**0.0000**	**2.7629**	**2.7629**	**7.0000e-005**	**0.0000**	**2.7647**

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	6.3400e-003	0.0627	0.0677	1.5000e-004		2.7400e-003	2.7400e-003		2.5200e-003	2.5200e-003	0.0000	13.1653	13.1653	4.2600e-003	0.0000	13.2718
Total	**6.3400e-003**	**0.0627**	**0.0677**	**1.5000e-004**		**2.7400e-003**	**2.7400e-003**		**2.5200e-003**	**2.5200e-003**	**0.0000**	**13.1653**	**13.1653**	**4.2600e-003**	**0.0000**	**13.2718**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3600e-003	9.9000e-004	0.0103	3.0000e-005	3.1800e-003	2.0000e-005	3.2100e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.7629	2.7629	7.0000e-005	0.0000	2.7647
Total	**1.3600e-003**	**9.9000e-004**	**0.0103**	**3.0000e-005**	**3.1800e-003**	**2.0000e-005**	**3.2100e-003**	**8.5000e-004**	**2.0000e-005**	**8.7000e-004**	**0.0000**	**2.7629**	**2.7629**	**7.0000e-005**	**0.0000**	**2.7647**

Offsite Construction

San Bernardino-South Coast County, 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												
Asphalt Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Demolition Debris Reprocessing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt 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
Fine 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
Finishing/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
Utility Trenching	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

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Dumpers/Tenders	Diesel	No Change	0	3	No Change	0.00
Excavators	Diesel	No Change	0	1	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	2	No Change	0.00
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	0	No Change	0.00
Pavers	Diesel	No Change	0	0	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	1	No Change	0.00

Tractors/Loaders/Backhoes	Diesel	No Change	0	6	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	1	No Change	0.00
Scrapers	Diesel	No Change	0	0	No Change	0.00
Crushing/Proc. Equipment	Diesel	No Change	0	1	No Change	0.00

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	6.28000E-003	4.37700E-002	5.21000E-002	9.00000E-005	2.70000E-003	2.70000E-003	0.00000E+000	7.31933E+000	7.31933E+000	5.00000E-004	0.00000E+000	7.33188E+000
Cement and Mortar Mixers	6.50000E-004	4.05000E-003	3.39000E-003	1.00000E-005	1.60000E-004	1.60000E-004	0.00000E+000	5.04100E-001	5.04100E-001	5.00000E-005	0.00000E+000	5.05410E-001
Concrete/Industrial Saws	4.15600E-002	3.28090E-001	3.96800E-001	6.80000E-004	1.87000E-002	1.87000E-002	0.00000E+000	5.80669E+001	5.80669E+001	3.37000E-003	0.00000E+000	5.81512E+001
Cranes	3.57200E-002	4.19470E-001	1.71520E-001	5.00000E-004	1.70300E-002	1.56700E-002	0.00000E+000	4.38451E+001	4.38451E+001	1.41800E-002	0.00000E+000	4.41996E+001
Crushing/Proc. Equipment	1.25600E-002	8.04300E-002	4.82000E-002	2.20000E-004	2.82000E-003	2.82000E-003	0.00000E+000	2.30502E+001	2.30502E+001	1.01000E-003	0.00000E+000	2.30756E+001
Dumpers/Tenders	8.67000E-003	5.48300E-002	2.96000E-002	9.00000E-005	2.06000E-003	2.06000E-003	0.00000E+000	6.52353E+000	6.52353E+000	7.00000E-004	0.00000E+000	6.54103E+000
Excavators	1.98200E-002	1.86270E-001	2.83010E-001	4.50000E-004	9.03000E-003	8.31000E-003	0.00000E+000	3.92508E+001	3.92508E+001	1.26900E-002	0.00000E+000	3.95682E+001
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	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	2.11000E-003	2.13400E-002	2.79600E-002	4.00000E-005	1.05000E-003	9.70000E-004	0.00000E+000	3.93629E+000	3.93629E+000	1.27000E-003	0.00000E+000	3.96811E+000
Rollers	4.17000E-003	4.23300E-002	4.13700E-002	6.00000E-005	2.59000E-003	2.38000E-003	0.00000E+000	5.07112E+000	5.07112E+000	1.64000E-003	0.00000E+000	5.11212E+000
Rubber Tired Dozers	1.07900E-002	1.13320E-001	4.13200E-002	9.00000E-005	5.55000E-003	5.11000E-003	0.00000E+000	7.50552E+000	7.50552E+000	2.43000E-003	0.00000E+000	7.56621E+000
Scrapers	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
Tractors/Loaders/Backhoes	4.38900E-002	4.47810E-001	4.80900E-001	8.40000E-004	2.31900E-002	2.13400E-002	0.00000E+000	7.35777E+001	7.35777E+001	2.38000E-002	0.00000E+000	7.41726E+001

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	6.28000E-003	4.37700E-002	5.21000E-002	9.00000E-005	2.70000E-003	2.70000E-003	0.00000E+000	7.31932E+000	7.31932E+000	5.00000E-004	0.00000E+000	7.33188E+000
Cement and Mortar Mixers	6.50000E-004	4.05000E-003	3.39000E-003	1.00000E-005	1.60000E-004	1.60000E-004	0.00000E+000	5.04100E-001	5.04100E-001	5.00000E-005	0.00000E+000	5.05410E-001
Concrete/Industrial Saws	4.15600E-002	3.28090E-001	3.96800E-001	6.80000E-004	1.87000E-002	1.87000E-002	0.00000E+000	5.80668E+001	5.80668E+001	3.37000E-003	0.00000E+000	5.81511E+001

Cranes	3.57200E-002	4.19470E-001	1.71520E-001	5.00000E-004	1.70300E-002	1.56700E-002	0.00000E+000	4.38450E+001	4.38450E+001	1.41800E-002	0.00000E+000	4.41995E+001
Crushing/Proc. Equipment	1.25600E-002	8.04300E-002	4.82000E-002	2.20000E-004	2.82000E-003	2.82000E-003	0.00000E+000	2.30502E+001	2.30502E+001	1.01000E-003	0.00000E+000	2.30755E+001
Dumpers/Tenders	8.67000E-003	5.48300E-002	2.96000E-002	9.00000E-005	2.06000E-003	2.06000E-003	0.00000E+000	6.52352E+000	6.52352E+000	7.00000E-004	0.00000E+000	6.54102E+000
Excavators	1.98200E-002	1.86270E-001	2.83010E-001	4.50000E-004	9.03000E-003	8.31000E-003	0.00000E+000	3.92508E+001	3.92508E+001	1.26900E-002	0.00000E+000	3.95681E+001
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	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	2.11000E-003	2.13400E-002	2.79600E-002	4.00000E-005	1.05000E-003	9.70000E-004	0.00000E+000	3.93628E+000	3.93628E+000	1.27000E-003	0.00000E+000	3.96811E+000
Rollers	4.17000E-003	4.23300E-002	4.13700E-002	6.00000E-005	2.59000E-003	2.38000E-003	0.00000E+000	5.07112E+000	5.07112E+000	1.64000E-003	0.00000E+000	5.11212E+000
Rubber Tired Dozers	1.07900E-002	1.13320E-001	4.13200E-002	9.00000E-005	5.55000E-003	5.11000E-003	0.00000E+000	7.50552E+000	7.50552E+000	2.43000E-003	0.00000E+000	7.56620E+000
Scrapers	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
Tractors/Loaders/Backhoes	4.38900E-002	4.47810E-001	4.80900E-001	8.40000E-004	2.31900E-002	2.13400E-002	0.00000E+000	7.35776E+001	7.35776E+001	2.38000E-002	0.00000E+000	7.41725E+001

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	1.36625E-006	1.36625E-006	0.00000E+000	0.00000E+000	0.00000E+000
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
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20551E-006	1.20551E-006	0.00000E+000	0.00000E+000	1.20376E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14038E-006	1.14038E-006	0.00000E+000	0.00000E+000	1.35748E-006
Crushing/Proc. Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.30151E-006	1.30151E-006	0.00000E+000	0.00000E+000	1.30008E-006
Dumpers/Tenders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.53291E-006	1.53291E-006	0.00000E+000	0.00000E+000	1.52881E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.01909E-006	1.01909E-006	0.00000E+000	0.00000E+000	1.26364E-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	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.54046E-006	2.54046E-006	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	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
Rubber Tired Dozers	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	1.32167E-006
Scrapers	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
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.22320E-006	1.22320E-006	0.00000E+000	0.00000E+000	1.21339E-006

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		
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	9.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Asphalt Demolition	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Demolition	Roads	0.00	0.00	0.00	0.00	0.08	0.07
Asphalt Demolition Debris Reprocessing	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Demolition Debris Reprocessing	Roads	0.00	0.00	0.00	0.00	0.09	0.11
Asphalt Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Paving	Roads	0.00	0.00	0.00	0.00	0.07	0.07
Fine Grading	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading	Roads	0.01	0.00	0.01	0.00	0.08	0.07
Finishing/Landscaping	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Finishing/Landscaping	Roads	0.01	0.00	0.01	0.00	0.08	0.07
Utility Trenching	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Utility Trenching	Roads	0.03	0.01	0.03	0.01	0.08	0.07

CalEEMod Output: Phase 1 Construction – Mitigated

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Phase 1 Construction_Mitigated-Coating&Tier 4

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	200.00	1000sqft	4.59	200,000.00	0
Unrefrigerated Warehouse-No Rail	1,247.12	1000sqft	28.15	1,247,123.00	0
Other Asphalt Surfaces	16.22	Acre	16.22	706,467.00	0
Other Non-Asphalt Surfaces	6.72	Acre	6.72	292,958.00	0
Parking Lot	6.32	Acre	6.32	275,315.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2021
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions file in the AQ/GHG appendix for details.

Construction Phase - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment -

Off-road Equipment - Placeholder for haul trips only. No additional equipment assumed.

Off-road Equipment - Based on information provided. See the assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - See the assumptions file in the AQ/GHG appendix for details.

Trips and VMT - See assumptions file in the AQ/GHG appendix for details.

Demolition -

Grading -

Architectural Coating - See assumptions file in the AQ/GHG appendix for details. Mitigation measure.

Area Coating -

Construction Off-road Equipment Mitigation - Based on SCAQMD Rules 403 and 1186.

Area Mitigation - Mitigation

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	76,484.00	16,519.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	20.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	20.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	20
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	20
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	75.00	45.00
tblConstructionPhase	NumDays	110.00	30.00
tblConstructionPhase	NumDays	110.00	31.00
tblGrading	MaterialExported	0.00	25,000.00

tblLandUse	LandUseSquareFeet	1,247,120.00	1,247,123.00
tblLandUse	LandUseSquareFeet	706,543.20	706,467.00
tblLandUse	LandUseSquareFeet	292,723.20	292,958.00
tblLandUse	LandUseSquareFeet	275,299.20	275,315.00
tblLandUse	LotAcreage	28.63	28.15
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	247.00	196.00
tblOffRoadEquipment	HorsePower	367.00	270.00
tblOffRoadEquipment	HorsePower	212.00	257.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,172.29	1,153.49
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	HaulingTripNumber	3,125.00	3,572.00
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	WorkerTripNumber	28.00	36.00
tblTripsAndVMT	WorkerTripNumber	229.00	12.00
tblWater	IndoorWaterUseRate	288,396,500.00	283,771,500.00

2.0 Emissions Summary

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					
2020	8.9396	118.4767	55.1163	0.1792	21.8892	3.8516	25.7407	7.9764	3.5453	11.5218	0.0000	17,902.4533	17,902.4533	4.1189	0.0000	18,005.4266
2021	60.7521	109.6916	52.4186	0.1785	23.8141	3.5458	27.3599	8.4489	3.2636	11.7125	0.0000	17,833.4154	17,833.4154	4.1082	0.0000	17,936.1214
Maximum	**60.7521**	**118.4767**	**55.1163**	**0.1792**	**23.8141**	**3.8516**	**27.3599**	**8.4489**	**3.5453**	**11.7125**	**0.0000**	**17,902.4533**	**17,902.4533**	**4.1189**	**0.0000**	**18,005.4266**

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					
2020	2.6472	53.1026	66.8260	0.1792	10.2559	0.2451	10.5010	3.6542	0.2427	3.8968	0.0000	17,902.4533	17,902.4533	4.1189	0.0000	18,005.4266
2021	60.7521	51.6991	66.5520	0.1785	12.0076	0.2350	12.2426	4.0841	0.2330	4.3172	0.0000	17,833.4154	17,833.4154	4.1082	0.0000	17,936.1214
Maximum	**60.7521**	**53.1026**	**66.8260**	**0.1792**	**12.0076**	**0.2451**	**12.2426**	**4.0841**	**0.2427**	**4.3172**	**0.0000**	**17,902.4533**	**17,902.4533**	**4.1189**	**0.0000**	**18,005.4266**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**9.03**	**54.07**	**-24.03**	**0.00**	**51.29**	**93.51**	**57.17**	**52.89**	**93.01**	**64.65**	**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	Rough Grading	Grading	12/1/2020	1/11/2021	5	30	
2	Rough Grading Soil Haul	Grading	12/1/2020	1/12/2021	5	31	
3	Architectural Coating	Architectural Coating	9/13/2021	11/12/2021	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 29.26

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,170,685; Non-Residential Outdoor: 723,562; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grading	Crawler Tractors	1	8.00	257	0.43
Rough Grading	Excavators	0	8.00	158	0.38
Rough Grading	Graders	2	8.00	238	0.41
Rough Grading	Rubber Tired Dozers	2	8.00	196	0.40
Rough Grading	Scrapers	6	8.00	270	0.48
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Rough Grading Soil Haul	Excavators	1	8.00	300	0.38
Rough Grading Soil Haul	Graders	0	8.00	187	0.41
Rough Grading Soil Haul	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading Soil Haul	Scrapers	0	8.00	367	0.48
Rough Grading Soil Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Rough Grading	11	36.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading Soil Haul	1	3.00	0.00	3,572.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Rough Grading - 2020

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					19.9979	0.0000	19.9979	7.4793	0.0000	7.4793			0.0000			0.0000
Off-Road	7.8946	93.0209	48.1678	0.1069		3.6934	3.6934		3.3979	3.3979		10,350.9536	10,350.9536	3.3477		10,434.6463
Total	**7.8946**	**93.0209**	**48.1678**	**0.1069**	**19.9979**	**3.6934**	**23.6913**	**7.4793**	**3.3979**	**10.8772**		**10,350.9536**	**10,350.9536**	**3.3477**		**10,434.6463**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0425	1.4774	0.2879	3.8000e-003	0.0897	6.8000e-003	0.0965	0.0258	6.5000e-003	0.0323		400.5419	400.5419	0.0260		401.1924
Worker	0.1965	0.1261	1.6190	4.0900e-003	0.4024	2.6400e-003	0.4050	0.1067	2.4300e-003	0.1092		406.8303	406.8303	0.0124		407.1408
Total	**0.2390**	**1.6035**	**1.9070**	**7.8900e-003**	**0.4921**	**9.4400e-003**	**0.5015**	**0.1325**	**8.9300e-003**	**0.1415**		**807.3722**	**807.3722**	**0.0384**		**808.3331**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.5491	0.0000	8.5491	3.1974	0.0000	3.1974			0.0000			0.0000
Off-Road	1.7497	28.2137	56.8648	0.1069		0.1750	0.1750		0.1750	0.1750	0.0000	10,350.9536	10,350.9536	3.3477		10,434.6463
Total	**1.7497**	**28.2137**	**56.8648**	**0.1069**	**8.5491**	**0.1750**	**8.7241**	**3.1974**	**0.1750**	**3.3724**	**0.0000**	**10,350.9536**	**10,350.9536**	**3.3477**		**10,434.6463**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0425	1.4774	0.2879	3.8000e-003	0.0839	6.8000e-003	0.0907	0.0244	6.5000e-003	0.0309		400.5419	400.5419	0.0260		401.1924
Worker	0.1965	0.1261	1.6190	4.0900e-003	0.3709	2.6400e-003	0.3736	0.0990	2.4300e-003	0.1014		406.8303	406.8303	0.0124		407.1408
Total	**0.2390**	**1.6035**	**1.9070**	**7.8900e-003**	**0.4548**	**9.4400e-003**	**0.4643**	**0.1234**	**8.9300e-003**	**0.1323**		**807.3722**	**807.3722**	**0.0384**		**808.3331**

3.2 Rough Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.9979	0.0000	19.9979	7.4793	0.0000	7.4793			0.0000			0.0000
Off-Road	7.4685	86.1223	45.7719	0.1069		3.4122	3.4122		3.1392	3.1392		10,350.8316	10,350.8316	3.3477		10,434.5234
Total	**7.4685**	**86.1223**	**45.7719**	**0.1069**	**19.9979**	**3.4122**	**23.4101**	**7.4793**	**3.1392**	**10.6185**		**10,350.8316**	**10,350.8316**	**3.3477**		**10,434.5234**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0362	1.3501	0.2541	3.7800e-003	0.0897	2.3100e-003	0.0920	0.0258	2.2100e-003	0.0280		398.4250	398.4250	0.0252		399.0545
Worker	0.1829	0.1131	1.4903	3.9600e-003	0.4024	2.5700e-003	0.4050	0.1067	2.3700e-003	0.1091		393.8690	393.8690	0.0112		394.1492
Total	**0.2191**	**1.4632**	**1.7444**	**7.7400e-003**	**0.4921**	**4.8800e-003**	**0.4970**	**0.1325**	**4.5800e-003**	**0.1371**		**792.2940**	**792.2940**	**0.0364**		**793.2037**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.5491	0.0000	8.5491	3.1974	0.0000	3.1974			0.0000			0.0000
Off-Road	1.7497	28.2137	56.8648	0.1069		0.1750	0.1750		0.1750	0.1750	0.0000	10,350.8316	10,350.8316	3.3477		10,434.5234
Total	**1.7497**	**28.2137**	**56.8648**	**0.1069**	**8.5491**	**0.1750**	**8.7241**	**3.1974**	**0.1750**	**3.3724**	**0.0000**	**10,350.8316**	**10,350.8316**	**3.3477**		**10,434.5234**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0362	1.3501	0.2541	3.7800e-003	0.0839	2.3100e-003	0.0862	0.0244	2.2100e-003	0.0266		398.4250	398.4250	0.0252		399.0545
Worker	0.1829	0.1131	1.4903	3.9600e-003	0.3709	2.5700e-003	0.3735	0.0990	2.3700e-003	0.1014		393.8690	393.8690	0.0112		394.1492
Total	**0.2191**	**1.4632**	**1.7444**	**7.7400e-003**	**0.4548**	**4.8800e-003**	**0.4597**	**0.1234**	**4.5800e-003**	**0.1280**		**792.2940**	**792.2940**	**0.0364**		**793.2037**

3.3 Rough Grading Soil Haul - 2020

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					0.0912	0.0000	0.0912	0.0138	0.0000	0.0138			0.0000			0.0000
Off-Road	0.3084	3.1607	2.2149	9.7700e-003		0.1041	0.1041		0.0958	0.0958		945.5837	945.5837	0.3058		953.2292
Total	**0.3084**	**3.1607**	**2.2149**	**9.7700e-003**	**0.0912**	**0.1041**	**0.1953**	**0.0138**	**0.0958**	**0.1096**		**945.5837**	**945.5837**	**0.3058**		**953.2292**

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	0.4813	20.6811	2.6917	0.0543	1.2744	0.0444	1.3188	0.3419	0.0425	0.3844		5,764.6413	5,764.6413	0.4259		5,775.2896
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0164	0.0105	0.1349	3.4000e-004	0.0335	2.2000e-004	0.0338	8.8900e-003	2.0000e-004	9.1000e-003		33.9025	33.9025	1.0300e-003		33.9284
Total	**0.4977**	**20.6917**	**2.8266**	**0.0547**	**1.3080**	**0.0446**	**1.3526**	**0.3508**	**0.0427**	**0.3935**		**5,798.5438**	**5,798.5438**	**0.4270**		**5,809.2180**

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					0.0390	0.0000	0.0390	5.9000e-003	0.0000	5.9000e-003			0.0000			0.0000
Off-Road	0.1609	2.5937	5.2276	9.7700e-003		0.0161	0.0161		0.0161	0.0161	0.0000	945.5837	945.5837	0.3058		953.2292
Total	**0.1609**	**2.5937**	**5.2276**	**9.7700e-003**	**0.0390**	**0.0161**	**0.0551**	**5.9000e-003**	**0.0161**	**0.0220**	**0.0000**	**945.5837**	**945.5837**	**0.3058**		**953.2292**

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	0.4813	20.6811	2.6917	0.0543	1.1820	0.0444	1.2264	0.3192	0.0425	0.3617		5,764.6413	5,764.6413	0.4259		5,775.2896
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0164	0.0105	0.1349	3.4000e-004	0.0309	2.2000e-004	0.0311	8.2500e-003	2.0000e-004	8.4500e-003		33.9025	33.9025	1.0300e-003		33.9284
Total	**0.4977**	**20.6917**	**2.8266**	**0.0547**	**1.2130**	**0.0446**	**1.2576**	**0.3275**	**0.0427**	**0.3702**		**5,798.5438**	**5,798.5438**	**0.4270**		**5,809.2180**

3.3 Rough Grading Soil Haul - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0912	0.0000	0.0912	0.0138	0.0000	0.0138			0.0000			0.0000
Off-Road	0.2874	2.6776	2.1871	9.7600e-003		0.0896	0.0896		0.0825	0.0825		944.2165	944.2165	0.3054		951.8510
Total	**0.2874**	**2.6776**	**2.1871**	**9.7600e-003**	**0.0912**	**0.0896**	**0.1808**	**0.0138**	**0.0825**	**0.0963**		**944.2165**	**944.2165**	**0.3054**		**951.8510**

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	0.4582	19.4191	2.5910	0.0538	3.1994	0.0389	3.2383	0.8144	0.0372	0.8516		5,713.2508	5,713.2508	0.4179		5,723.6975
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0152	9.4200e-003	0.1242	3.3000e-004	0.0335	2.1000e-004	0.0338	8.8900e-003	2.0000e-004	9.0900e-003		32.8224	32.8224	9.3000e-004		32.8458
Total	**0.4734**	**19.4285**	**2.7152**	**0.0542**	**3.2329**	**0.0391**	**3.2720**	**0.8233**	**0.0374**	**0.8607**		**5,746.0732**	**5,746.0732**	**0.4188**		**5,756.5433**

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					0.0390	0.0000	0.0390	5.9000e-003	0.0000	5.9000e-003			0.0000			0.0000
Off-Road	0.1609	2.5937	5.2276	9.7600e-003		0.0161	0.0161		0.0161	0.0161	0.0000	944.2165	944.2165	0.3054		951.8510
Total	**0.1609**	**2.5937**	**5.2276**	**9.7600e-003**	**0.0390**	**0.0161**	**0.0551**	**5.9000e-003**	**0.0161**	**0.0220**	**0.0000**	**944.2165**	**944.2165**	**0.3054**		**951.8510**

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	0.4582	19.4191	2.5910	0.0538	2.9337	0.0389	2.9726	0.7492	0.0372	0.7864		5,713.2508	5,713.2508	0.4179		5,723.6975
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0152	9.4200e-003	0.1242	3.3000e-004	0.0309	2.1000e-004	0.0311	8.2500e-003	2.0000e-004	8.4500e-003		32.8224	32.8224	9.3000e-004		32.8458
Total	**0.4734**	**19.4285**	**2.7152**	**0.0542**	**2.9646**	**0.0391**	**3.0037**	**0.7574**	**0.0374**	**0.7948**		**5,746.0732**	**5,746.0732**	**0.4188**		**5,756.5433**

3.4 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	60.4722					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**60.6911**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0610	0.0377	0.4968	1.3200e-003	0.1341	8.6000e-004	0.1350	0.0356	7.9000e-004	0.0364		131.2897	131.2897	3.7400e-003		131.3831
Total	**0.0610**	**0.0377**	**0.4968**	**1.3200e-003**	**0.1341**	**8.6000e-004**	**0.1350**	**0.0356**	**7.9000e-004**	**0.0364**		**131.2897**	**131.2897**	**3.7400e-003**		**131.3831**

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	60.4722					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**60.6911**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0610	0.0377	0.4968	1.3200e-003	0.1236	8.6000e-004	0.1245	0.0330	7.9000e-004	0.0338		131.2897	131.2897	3.7400e-003		131.3831
Total	**0.0610**	**0.0377**	**0.4968**	**1.3200e-003**	**0.1236**	**8.6000e-004**	**0.1245**	**0.0330**	**7.9000e-004**	**0.0338**		**131.2897**	**131.2897**	**3.7400e-003**		**131.3831**

Phase 1 Construction_Mitigated-Coating&Tier 4

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	200.00	1000sqft	4.59	200,000.00	0
Unrefrigerated Warehouse-No Rail	1,247.12	1000sqft	28.15	1,247,123.00	0
Other Asphalt Surfaces	16.22	Acre	16.22	706,467.00	0
Other Non-Asphalt Surfaces	6.72	Acre	6.72	292,958.00	0
Parking Lot	6.32	Acre	6.32	275,315.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2021
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions file in the AQ/GHG appendix for details.

Construction Phase - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment -

Off-road Equipment - Placeholder for haul trips only. No additional equipment assumed.

Off-road Equipment - Based on information provided. See the assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - See the assumptions file in the AQ/GHG appendix for details.

Trips and VMT - See assumptions file in the AQ/GHG appendix for details.

Demolition -

Grading -

Architectural Coating - See assumptions file in the AQ/GHG appendix for details. Mitigation measure.

Area Coating -

Construction Off-road Equipment Mitigation - Based on SCAQMD Rules 403 and 1186.

Area Mitigation - Mitigation

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	76,484.00	16,519.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	20.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	20.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	20
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	20
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	75.00	45.00
tblConstructionPhase	NumDays	110.00	30.00
tblConstructionPhase	NumDays	110.00	31.00
tblGrading	MaterialExported	0.00	25,000.00

tblLandUse	LandUseSquareFeet	1,247,120.00	1,247,123.00
tblLandUse	LandUseSquareFeet	706,543.20	706,467.00
tblLandUse	LandUseSquareFeet	292,723.20	292,958.00
tblLandUse	LandUseSquareFeet	275,299.20	275,315.00
tblLandUse	LotAcreage	28.63	28.15
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	247.00	196.00
tblOffRoadEquipment	HorsePower	367.00	270.00
tblOffRoadEquipment	HorsePower	212.00	257.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,172.29	1,153.49
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	HaulingTripNumber	3,125.00	3,572.00
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	WorkerTripNumber	28.00	36.00
tblTripsAndVMT	WorkerTripNumber	229.00	12.00
tblWater	IndoorWaterUseRate	288,396,500.00	283,771,500.00

2.0 Emissions Summary

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					
2020	8.9746	118.2654	55.4613	0.1762	21.8892	3.8528	25.7419	7.9764	3.5465	11.5229	0.0000	17,591.3588	17,591.3588	4.1642	0.0000	17,695.4631
2021	60.7522	109.4648	52.7568	0.1756	23.8141	3.5469	27.3609	8.4489	3.2647	11.7136	0.0000	17,524.8456	17,524.8456	4.1534	0.0000	17,628.6794
Maximum	**60.7522**	**118.2654**	**55.4613**	**0.1762**	**23.8141**	**3.8528**	**27.3609**	**8.4489**	**3.5465**	**11.7136**	**0.0000**	**17,591.3588**	**17,591.3588**	**4.1642**	**0.0000**	**17,695.4631**

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					
2020	2.6822	52.8913	67.1710	0.1762	10.2559	0.2463	10.5022	3.6542	0.2438	3.8980	0.0000	17,591.3588	17,591.3588	4.1642	0.0000	17,695.4631
2021	60.7522	51.4722	66.8902	0.1756	12.0076	0.2361	12.2437	4.0841	0.2341	4.3182	0.0000	17,524.8456	17,524.8456	4.1534	0.0000	17,628.6794
Maximum	**60.7522**	**52.8913**	**67.1710**	**0.1762**	**12.0076**	**0.2463**	**12.2437**	**4.0841**	**0.2438**	**4.3182**	**0.0000**	**17,591.3588**	**17,591.3588**	**4.1642**	**0.0000**	**17,695.4631**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**9.02**	**54.17**	**-23.88**	**0.00**	**51.29**	**93.48**	**57.17**	**52.89**	**92.98**	**64.64**	**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	Rough Grading	Grading	12/1/2020	1/11/2021	5	30	
2	Rough Grading Soil Haul	Grading	12/1/2020	1/12/2021	5	31	
3	Architectural Coating	Architectural Coating	9/13/2021	11/12/2021	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 29.26

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,170,685; Non-Residential Outdoor: 723,562; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grading	Crawler Tractors	1	8.00	257	0.43
Rough Grading	Excavators	0	8.00	158	0.38
Rough Grading	Graders	2	8.00	238	0.41
Rough Grading	Rubber Tired Dozers	2	8.00	196	0.40
Rough Grading	Scrapers	6	8.00	270	0.48
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Rough Grading Soil Haul	Excavators	1	8.00	300	0.38
Rough Grading Soil Haul	Graders	0	8.00	187	0.41
Rough Grading Soil Haul	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading Soil Haul	Scrapers	0	8.00	367	0.48
Rough Grading Soil Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Rough Grading	11	36.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading Soil Haul	1	3.00	0.00	3,572.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Rough Grading - 2020

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					19.9979	0.0000	19.9979	7.4793	0.0000	7.4793			0.0000			0.0000
Off-Road	7.8946	93.0209	48.1678	0.1069		3.6934	3.6934		3.3979	3.3979		10,350.9536	10,350.9536	3.3477		10,434.6463
Total	**7.8946**	**93.0209**	**48.1678**	**0.1069**	**19.9979**	**3.6934**	**23.6913**	**7.4793**	**3.3979**	**10.8772**		**10,350.9536**	**10,350.9536**	**3.3477**		**10,434.6463**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0448	1.4654	0.3337	3.6500e-003	0.0897	6.8800e-003	0.0966	0.0258	6.5900e-003	0.0324		385.0002	385.0002	0.0288		385.7193
Worker	0.1966	0.1327	1.3306	3.6600e-003	0.4024	2.6400e-003	0.4050	0.1067	2.4300e-003	0.1092		364.9499	364.9499	0.0109		365.2223
Total	**0.2414**	**1.5981**	**1.6644**	**7.3100e-003**	**0.4921**	**9.5200e-003**	**0.5016**	**0.1325**	**9.0200e-003**	**0.1416**		**749.9501**	**749.9501**	**0.0397**		**750.9416**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.5491	0.0000	8.5491	3.1974	0.0000	3.1974			0.0000			0.0000
Off-Road	1.7497	28.2137	56.8648	0.1069		0.1750	0.1750		0.1750	0.1750	0.0000	10,350.9536	10,350.9536	3.3477		10,434.6463
Total	**1.7497**	**28.2137**	**56.8648**	**0.1069**	**8.5491**	**0.1750**	**8.7241**	**3.1974**	**0.1750**	**3.3724**	**0.0000**	**10,350.9536**	**10,350.9536**	**3.3477**		**10,434.6463**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0448	1.4654	0.3337	3.6500e-003	0.0839	6.8800e-003	0.0908	0.0244	6.5900e-003	0.0310		385.0002	385.0002	0.0288		385.7193
Worker	0.1966	0.1327	1.3306	3.6600e-003	0.3709	2.6400e-003	0.3736	0.0990	2.4300e-003	0.1014		364.9499	364.9499	0.0109		365.2223
Total	**0.2414**	**1.5981**	**1.6644**	**7.3100e-003**	**0.4548**	**9.5200e-003**	**0.4644**	**0.1234**	**9.0200e-003**	**0.1324**		**749.9501**	**749.9501**	**0.0397**		**750.9416**

3.2 Rough Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.9979	0.0000	19.9979	7.4793	0.0000	7.4793			0.0000			0.0000
Off-Road	7.4685	86.1223	45.7719	0.1069		3.4122	3.4122		3.1392	3.1392		10,350.8316	10,350.8316	3.3477		10,434.5234
Total	**7.4685**	**86.1223**	**45.7719**	**0.1069**	**19.9979**	**3.4122**	**23.4101**	**7.4793**	**3.1392**	**10.6185**		**10,350.8316**	**10,350.8316**	**3.3477**		**10,434.5234**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0384	1.3358	0.2972	3.6300e-003	0.0897	2.3800e-003	0.0921	0.0258	2.2800e-003	0.0281		382.9492	382.9492	0.0279		383.6469
Worker	0.1833	0.1189	1.2224	3.5500e-003	0.4024	2.5700e-003	0.4050	0.1067	2.3700e-003	0.1091		353.3392	353.3392	9.8400e-003		353.5850
Total	**0.2218**	**1.4547**	**1.5196**	**7.1800e-003**	**0.4921**	**4.9500e-003**	**0.4970**	**0.1325**	**4.6500e-003**	**0.1372**		**736.2883**	**736.2883**	**0.0378**		**737.2319**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.5491	0.0000	8.5491	3.1974	0.0000	3.1974			0.0000			0.0000
Off-Road	1.7497	28.2137	56.8648	0.1069		0.1750	0.1750		0.1750	0.1750	0.0000	10,350.8316	10,350.8316	3.3477		10,434.5234
Total	**1.7497**	**28.2137**	**56.8648**	**0.1069**	**8.5491**	**0.1750**	**8.7241**	**3.1974**	**0.1750**	**3.3724**	**0.0000**	**10,350.8316**	**10,350.8316**	**3.3477**		**10,434.5234**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0384	1.3358	0.2972	3.6300e-003	0.0839	2.3800e-003	0.0863	0.0244	2.2800e-003	0.0267		382.9492	382.9492	0.0279		383.6469
Worker	0.1833	0.1189	1.2224	3.5500e-003	0.3709	2.5700e-003	0.3735	0.0990	2.3700e-003	0.1014		353.3392	353.3392	9.8400e-003		353.5850
Total	**0.2218**	**1.4547**	**1.5196**	**7.1800e-003**	**0.4548**	**4.9500e-003**	**0.4598**	**0.1234**	**4.6500e-003**	**0.1280**		**736.2883**	**736.2883**	**0.0378**		**737.2319**

3.3 Rough Grading Soil Haul - 2020

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					0.0912	0.0000	0.0912	0.0138	0.0000	0.0138			0.0000			0.0000
Off-Road	0.3084	3.1607	2.2149	9.7700e-003		0.1041	0.1041		0.0958	0.0958		945.5837	945.5837	0.3058		953.2292
Total	**0.3084**	**3.1607**	**2.2149**	**9.7700e-003**	**0.0912**	**0.1041**	**0.1953**	**0.0138**	**0.0958**	**0.1096**		**945.5837**	**945.5837**	**0.3058**		**953.2292**

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	0.5138	20.4747	3.3033	0.0520	1.2744	0.0456	1.3200	0.3419	0.0436	0.3855		5,514.4590	5,514.4590	0.4701		5,526.2109
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0164	0.0111	0.1109	3.1000e-004	0.0335	2.2000e-004	0.0338	8.8900e-003	2.0000e-004	9.1000e-003		30.4125	30.4125	9.1000e-004		30.4352
Total	**0.5302**	**20.4858**	**3.4142**	**0.0523**	**1.3080**	**0.0458**	**1.3537**	**0.3508**	**0.0438**	**0.3946**		**5,544.8715**	**5,544.8715**	**0.4710**		**5,556.6461**

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					0.0390	0.0000	0.0390	5.9000e-003	0.0000	5.9000e-003			0.0000			0.0000
Off-Road	0.1609	2.5937	5.2276	9.7700e-003		0.0161	0.0161		0.0161	0.0161	0.0000	945.5837	945.5837	0.3058		953.2292
Total	**0.1609**	**2.5937**	**5.2276**	**9.7700e-003**	**0.0390**	**0.0161**	**0.0551**	**5.9000e-003**	**0.0161**	**0.0220**	**0.0000**	**945.5837**	**945.5837**	**0.3058**		**953.2292**

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	0.5138	20.4747	3.3033	0.0520	1.1820	0.0456	1.2276	0.3192	0.0436	0.3628		5,514.4590	5,514.4590	0.4701		5,526.2109
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0164	0.0111	0.1109	3.1000e-004	0.0309	2.2000e-004	0.0311	8.2500e-003	2.0000e-004	8.4500e-003		30.4125	30.4125	9.1000e-004		30.4352
Total	**0.5302**	**20.4858**	**3.4142**	**0.0523**	**1.2130**	**0.0458**	**1.2587**	**0.3275**	**0.0438**	**0.3713**		**5,544.8715**	**5,544.8715**	**0.4710**		**5,556.6461**

3.3 Rough Grading Soil Haul - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0912	0.0000	0.0912	0.0138	0.0000	0.0138			0.0000			0.0000
Off-Road	0.2874	2.6776	2.1871	9.7600e-003		0.0896	0.0896		0.0825	0.0825		944.2165	944.2165	0.3054		951.8510
Total	**0.2874**	**2.6776**	**2.1871**	**9.7600e-003**	**0.0912**	**0.0896**	**0.1808**	**0.0138**	**0.0825**	**0.0963**		**944.2165**	**944.2165**	**0.3054**		**951.8510**

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	0.4892	19.2002	3.1763	0.0515	3.1994	0.0399	3.2393	0.8144	0.0382	0.8526		5,464.0641	5,464.0641	0.4617		5,475.6077
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0153	9.9100e-003	0.1019	3.0000e-004	0.0335	2.1000e-004	0.0338	8.8900e-003	2.0000e-004	9.0900e-003		29.4449	29.4449	8.2000e-004		29.4654
Total	**0.5045**	**19.2101**	**3.2782**	**0.0518**	**3.2329**	**0.0401**	**3.2730**	**0.8233**	**0.0384**	**0.8617**		**5,493.5091**	**5,493.5091**	**0.4626**		**5,505.0732**

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					0.0390	0.0000	0.0390	5.9000e-003	0.0000	5.9000e-003			0.0000			0.0000
Off-Road	0.1609	2.5937	5.2276	9.7600e-003		0.0161	0.0161		0.0161	0.0161	0.0000	944.2165	944.2165	0.3054		951.8510
Total	**0.1609**	**2.5937**	**5.2276**	**9.7600e-003**	**0.0390**	**0.0161**	**0.0551**	**5.9000e-003**	**0.0161**	**0.0220**	**0.0000**	**944.2165**	**944.2165**	**0.3054**		**951.8510**

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	0.4892	19.2002	3.1763	0.0515	2.9337	0.0399	2.9736	0.7492	0.0382	0.7874		5,464.0641	5,464.0641	0.4617		5,475.6077
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0153	9.9100e-003	0.1019	3.0000e-004	0.0309	2.1000e-004	0.0311	8.2500e-003	2.0000e-004	8.4500e-003		29.4449	29.4449	8.2000e-004		29.4654
Total	**0.5045**	**19.2101**	**3.2782**	**0.0518**	**2.9646**	**0.0401**	**3.0048**	**0.7574**	**0.0384**	**0.7958**		**5,493.5091**	**5,493.5091**	**0.4626**		**5,505.0732**

3.4 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	60.4722					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**60.6911**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0611	0.0396	0.4075	1.1800e-003	0.1341	8.6000e-004	0.1350	0.0356	7.9000e-004	0.0364		117.7797	117.7797	3.2800e-003		117.8617
Total	**0.0611**	**0.0396**	**0.4075**	**1.1800e-003**	**0.1341**	**8.6000e-004**	**0.1350**	**0.0356**	**7.9000e-004**	**0.0364**		**117.7797**	**117.7797**	**3.2800e-003**		**117.8617**

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	60.4722					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**60.6911**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0611	0.0396	0.4075	1.1800e-003	0.1236	8.6000e-004	0.1245	0.0330	7.9000e-004	0.0338		117.7797	117.7797	3.2800e-003		117.8617
Total	**0.0611**	**0.0396**	**0.4075**	**1.1800e-003**	**0.1236**	**8.6000e-004**	**0.1245**	**0.0330**	**7.9000e-004**	**0.0338**		**117.7797**	**117.7797**	**3.2800e-003**		**117.8617**

Phase 1 Construction_Mitigated-Coating&Tier 4

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	200.00	1000sqft	4.59	200,000.00	0
Unrefrigerated Warehouse-No Rail	1,247.12	1000sqft	28.15	1,247,123.00	0
Other Asphalt Surfaces	16.22	Acre	16.22	706,467.00	0
Other Non-Asphalt Surfaces	6.72	Acre	6.72	292,958.00	0
Parking Lot	6.32	Acre	6.32	275,315.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2021
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions file in the AQ/GHG appendix for details.

Construction Phase - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment -

Off-road Equipment - Placeholder for haul trips only. No additional equipment assumed.

Off-road Equipment - Based on information provided. See the assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - See the assumptions file in the AQ/GHG appendix for details.

Trips and VMT - See assumptions file in the AQ/GHG appendix for details.

Demolition -

Grading -

Architectural Coating - See assumptions file in the AQ/GHG appendix for details. Mitigation measure.

Area Coating -

Construction Off-road Equipment Mitigation - Based on SCAQMD Rules 403 and 1186.

Area Mitigation - Mitigation

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	76,484.00	16,519.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	20.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	20.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior Value	100	20
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior Value	100	20
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	75.00	45.00
tblConstructionPhase	NumDays	110.00	30.00
tblConstructionPhase	NumDays	110.00	31.00
tblGrading	MaterialExported	0.00	25,000.00

tblLandUse	LandUseSquareFeet	1,247,120.00	1,247,123.00
tblLandUse	LandUseSquareFeet	706,543.20	706,467.00
tblLandUse	LandUseSquareFeet	292,723.20	292,958.00
tblLandUse	LandUseSquareFeet	275,299.20	275,315.00
tblLandUse	LotAcreage	28.63	28.15
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	247.00	196.00
tblOffRoadEquipment	HorsePower	367.00	270.00
tblOffRoadEquipment	HorsePower	212.00	257.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,172.29	1,153.49
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	HaulingTripNumber	3,125.00	3,572.00
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	WorkerTripNumber	28.00	36.00
tblTripsAndVMT	WorkerTripNumber	229.00	12.00
tblWater	IndoorWaterUseRate	288,396,500.00	283,771,500.00

2.0 Emissions Summary

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					
2020	0.1028	1.3657	0.6345	2.0400e-003	0.2796	0.0443	0.3239	0.0947	0.0408	0.1355	0.0000	185.2223	185.2223	0.0432	0.0000	186.3017
2021	1.3967	0.4312	0.2368	7.5000e-004	0.1802	0.0146	0.1948	0.0407	0.0136	0.0544	0.0000	67.3455	67.3455	0.0139	0.0000	67.6931
Maximum	**1.3967**	**1.3657**	**0.6345**	**2.0400e-003**	**0.2796**	**0.0443**	**0.3239**	**0.0947**	**0.0408**	**0.1355**	**0.0000**	**185.2223**	**185.2223**	**0.0432**	**0.0000**	**186.3017**

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					
2020	0.0304	0.6139	0.7692	2.0400e-003	0.1297	2.8200e-003	0.1325	0.0433	2.8000e-003	0.0461	0.0000	185.2222	185.2222	0.0432	0.0000	186.3016
2021	1.3762	0.2282	0.2878	7.5000e-004	0.0855	2.9900e-003	0.0885	0.0196	2.9800e-003	0.0226	0.0000	67.3454	67.3454	0.0139	0.0000	67.6931
Maximum	**1.3762**	**0.6139**	**0.7692**	**2.0400e-003**	**0.1297**	**2.9900e-003**	**0.1325**	**0.0433**	**2.9800e-003**	**0.0461**	**0.0000**	**185.2222**	**185.2222**	**0.0432**	**0.0000**	**186.3016**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**6.19**	**53.14**	**-21.31**	**0.00**	**53.19**	**90.14**	**57.39**	**53.57**	**89.38**	**63.83**	**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	**10-5-2020**	**1-4-2021**	1.8807	0.9878
2	**1-5-2021**	**4-4-2021**	0.3597	0.1995
4	**7-5-2021**	**9-30-2021**	0.4006	0.4006
		Highest	1.8807	0.9878

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Rough Grading	Grading	12/1/2020	1/11/2021	5	30	
2	Rough Grading Soil Haul	Grading	12/1/2020	1/12/2021	5	31	
3	Architectural Coating	Architectural Coating	9/13/2021	11/12/2021	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 29.26

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,170,685; Non-Residential Outdoor: 723,562; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grading	Crawler Tractors	1	8.00	257	0.43
Rough Grading	Excavators	0	8.00	158	0.38
Rough Grading	Graders	2	8.00	238	0.41
Rough Grading	Rubber Tired Dozers	2	8.00	196	0.40
Rough Grading	Scrapers	6	8.00	270	0.48
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Rough Grading Soil Haul	Excavators	1	8.00	300	0.38
Rough Grading Soil Haul	Graders	0	8.00	187	0.41
Rough Grading Soil Haul	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading Soil Haul	Scrapers	0	8.00	367	0.48
Rough Grading Soil Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Rough Grading	11	36.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading Soil Haul	1	3.00	0.00	3,572.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Rough Grading - 2020

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					0.2578	0.0000	0.2578	0.0890	0.0000	0.0890	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0908	1.0697	0.5539	1.2300e-003		0.0425	0.0425		0.0391	0.0391	0.0000	107.9876	107.9876	0.0349	0.0000	108.8608
Total	**0.0908**	**1.0697**	**0.5539**	**1.2300e-003**	**0.2578**	**0.0425**	**0.3003**	**0.0890**	**0.0391**	**0.1281**	**0.0000**	**107.9876**	**107.9876**	**0.0349**	**0.0000**	**108.8608**

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	5.0000e-004	0.0172	3.5900e-003	4.0000e-005	1.0200e-003	8.0000e-005	1.0900e-003	2.9000e-004	8.0000e-005	3.7000e-004	0.0000	4.1106	4.1106	2.8000e-004	0.0000	4.1177
Worker	2.0500e-003	1.6100e-003	0.0161	4.0000e-005	4.5400e-003	3.0000e-005	4.5700e-003	1.2100e-003	3.0000e-005	1.2300e-003	0.0000	3.8909	3.8909	1.2000e-004	0.0000	3.8938
Total	**2.5500e-003**	**0.0188**	**0.0197**	**8.0000e-005**	**5.5600e-003**	**1.1000e-004**	**5.6600e-003**	**1.5000e-003**	**1.1000e-004**	**1.6000e-003**	**0.0000**	**8.0015**	**8.0015**	**4.0000e-004**	**0.0000**	**8.0115**

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					0.1102	0.0000	0.1102	0.0381	0.0000	0.0381	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0201	0.3245	0.6539	1.2300e-003		2.0100e-003	2.0100e-003		2.0100e-003	2.0100e-003	0.0000	107.9875	107.9875	0.0349	0.0000	108.8606
Total	**0.0201**	**0.3245**	**0.6539**	**1.2300e-003**	**0.1102**	**2.0100e-003**	**0.1122**	**0.0381**	**2.0100e-003**	**0.0401**	**0.0000**	**107.9875**	**107.9875**	**0.0349**	**0.0000**	**108.8606**

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	5.0000e-004	0.0172	3.5900e-003	4.0000e-005	9.5000e-004	8.0000e-005	1.0300e-003	2.8000e-004	8.0000e-005	3.5000e-004	0.0000	4.1106	4.1106	2.8000e-004	0.0000	4.1177
Worker	2.0500e-003	1.6100e-003	0.0161	4.0000e-005	4.1900e-003	3.0000e-005	4.2200e-003	1.1200e-003	3.0000e-005	1.1500e-003	0.0000	3.8909	3.8909	1.2000e-004	0.0000	3.8938
Total	**2.5500e-003**	**0.0188**	**0.0197**	**8.0000e-005**	**5.1400e-003**	**1.1000e-004**	**5.2500e-003**	**1.4000e-003**	**1.1000e-004**	**1.5000e-003**	**0.0000**	**8.0015**	**8.0015**	**4.0000e-004**	**0.0000**	**8.0115**

3.2 Rough Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1615	0.0000	0.1615	0.0361	0.0000	0.0361	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0261	0.3014	0.1602	3.7000e-004		0.0119	0.0119		0.0110	0.0110	0.0000	32.8654	32.8654	0.0106	0.0000	33.1311
Total	**0.0261**	**0.3014**	**0.1602**	**3.7000e-004**	**0.1615**	**0.0119**	**0.1734**	**0.0361**	**0.0110**	**0.0470**	**0.0000**	**32.8654**	**32.8654**	**0.0106**	**0.0000**	**33.1311**

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	1.3000e-004	4.7700e-003	9.7000e-004	1.0000e-005	3.1000e-004	1.0000e-005	3.2000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	1.2444	1.2444	8.0000e-005	0.0000	1.2465
Worker	5.8000e-004	4.4000e-004	4.4900e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.3900e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.1465	1.1465	3.0000e-005	0.0000	1.1473
Total	**7.1000e-004**	**5.2100e-003**	**5.4600e-003**	**2.0000e-005**	**1.6900e-003**	**2.0000e-005**	**1.7100e-003**	**4.6000e-004**	**2.0000e-005**	**4.8000e-004**	**0.0000**	**2.3909**	**2.3909**	**1.1000e-004**	**0.0000**	**2.3938**

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					0.0690	0.0000	0.0690	0.0154	0.0000	0.0154	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1200e-003	0.0988	0.1990	3.7000e-004		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	32.8654	32.8654	0.0106	0.0000	33.1311
Total	**6.1200e-003**	**0.0988**	**0.1990**	**3.7000e-004**	**0.0690**	**6.1000e-004**	**0.0696**	**0.0154**	**6.1000e-004**	**0.0160**	**0.0000**	**32.8654**	**32.8654**	**0.0106**	**0.0000**	**33.1311**

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	1.3000e-004	4.7700e-003	9.7000e-004	1.0000e-005	2.9000e-004	1.0000e-005	3.0000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.2444	1.2444	8.0000e-005	0.0000	1.2465
Worker	5.8000e-004	4.4000e-004	4.4900e-003	1.0000e-005	1.2700e-003	1.0000e-005	1.2800e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1465	1.1465	3.0000e-005	0.0000	1.1473
Total	**7.1000e-004**	**5.2100e-003**	**5.4600e-003**	**2.0000e-005**	**1.5600e-003**	**2.0000e-005**	**1.5800e-003**	**4.2000e-004**	**2.0000e-005**	**4.4000e-004**	**0.0000**	**2.3909**	**2.3909**	**1.1000e-004**	**0.0000**	**2.3938**

3.3 Rough Grading Soil Haul - 2020

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					1.4100e-003	0.0000	1.4100e-003	2.1000e-004	0.0000	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5500e-003	0.0364	0.0255	1.1000e-004		1.2000e-003	1.2000e-003		1.1000e-003	1.1000e-003	0.0000	9.8649	9.8649	3.1900e-003	0.0000	9.9447
Total	**3.5500e-003**	**0.0364**	**0.0255**	**1.1000e-004**	**1.4100e-003**	**1.2000e-003**	**2.6100e-003**	**2.1000e-004**	**1.1000e-003**	**1.3100e-003**	**0.0000**	**9.8649**	**9.8649**	**3.1900e-003**	**0.0000**	**9.9447**

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	5.7000e-003	0.2407	0.0341	6.1000e-004	0.0144	5.2000e-004	0.0149	3.8700e-003	4.9000e-004	4.3600e-003	0.0000	59.0441	59.0441	4.6500e-003	0.0000	59.1603
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.3000e-004	1.3400e-003	0.0000	3.8000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3242	0.3242	1.0000e-005	0.0000	0.3245
Total	**5.8700e-003**	**0.2408**	**0.0355**	**6.1000e-004**	**0.0148**	**5.2000e-004**	**0.0153**	**3.9700e-003**	**4.9000e-004**	**4.4600e-003**	**0.0000**	**59.3684**	**59.3684**	**4.6600e-003**	**0.0000**	**59.4848**

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					6.0000e-004	0.0000	6.0000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8500e-003	0.0298	0.0601	1.1000e-004		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	9.8649	9.8649	3.1900e-003	0.0000	9.9447
Total	**1.8500e-003**	**0.0298**	**0.0601**	**1.1000e-004**	**6.0000e-004**	**1.8000e-004**	**7.8000e-004**	**9.0000e-005**	**1.8000e-004**	**2.7000e-004**	**0.0000**	**9.8649**	**9.8649**	**3.1900e-003**	**0.0000**	**9.9447**

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	5.7000e-003	0.2407	0.0341	6.1000e-004	0.0134	5.2000e-004	0.0139	3.6100e-003	4.9000e-004	4.1100e-003	0.0000	59.0441	59.0441	4.6500e-003	0.0000	59.1603
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.3000e-004	1.3400e-003	0.0000	3.5000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3242	0.3242	1.0000e-005	0.0000	0.3245
Total	**5.8700e-003**	**0.2408**	**0.0355**	**6.1000e-004**	**0.0137**	**5.2000e-004**	**0.0142**	**3.7000e-003**	**4.9000e-004**	**4.2100e-003**	**0.0000**	**59.3684**	**59.3684**	**4.6600e-003**	**0.0000**	**59.4848**

3.3 Rough Grading Soil Haul - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.4100e-003	0.0000	1.4100e-003	2.1000e-004	0.0000	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1500e-003	0.0107	8.7500e-003	4.0000e-005		3.6000e-004	3.6000e-004		3.3000e-004	3.3000e-004	0.0000	3.4263	3.4263	1.1100e-003	0.0000	3.4540
Total	**1.1500e-003**	**0.0107**	**8.7500e-003**	**4.0000e-005**	**1.4100e-003**	**3.6000e-004**	**1.7700e-003**	**2.1000e-004**	**3.3000e-004**	**5.4000e-004**	**0.0000**	**3.4263**	**3.4263**	**1.1100e-003**	**0.0000**	**3.4540**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8900e-003	0.0785	0.0114	2.1000e-004	0.0125	1.6000e-004	0.0127	3.1900e-003	1.5000e-004	3.3400e-003	0.0000	20.3521	20.3521	1.5900e-003	0.0000	20.3918
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.3000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.1092	0.1092	0.0000	0.0000	0.1093
Total	**1.9500e-003**	**0.0785**	**0.0118**	**2.1000e-004**	**0.0127**	**1.6000e-004**	**0.0128**	**3.2200e-003**	**1.5000e-004**	**3.3800e-003**	**0.0000**	**20.4613**	**20.4613**	**1.5900e-003**	**0.0000**	**20.5010**

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					6.0000e-004	0.0000	6.0000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4000e-004	0.0104	0.0209	4.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	3.4263	3.4263	1.1100e-003	0.0000	3.4540
Total	**6.4000e-004**	**0.0104**	**0.0209**	**4.0000e-005**	**6.0000e-004**	**6.0000e-005**	**6.6000e-004**	**9.0000e-005**	**6.0000e-005**	**1.5000e-004**	**0.0000**	**3.4263**	**3.4263**	**1.1100e-003**	**0.0000**	**3.4540**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8900e-003	0.0785	0.0114	2.1000e-004	0.0115	1.6000e-004	0.0117	2.9400e-003	1.5000e-004	3.0900e-003	0.0000	20.3521	20.3521	1.5900e-003	0.0000	20.3918
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1092	0.1092	0.0000	0.0000	0.1093
Total	**1.9500e-003**	**0.0785**	**0.0118**	**2.1000e-004**	**0.0116**	**1.6000e-004**	**0.0118**	**2.9700e-003**	**1.5000e-004**	**3.1200e-003**	**0.0000**	**20.4613**	**20.4613**	**1.5900e-003**	**0.0000**	**20.5010**

3.4 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.3606					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9300e-003	0.0344	0.0409	7.0000e-005		2.1200e-003	2.1200e-003		2.1200e-003	2.1200e-003	0.0000	5.7448	5.7448	3.9000e-004	0.0000	5.7547
Total	**1.3656**	**0.0344**	**0.0409**	**7.0000e-005**		**2.1200e-003**	**2.1200e-003**		**2.1200e-003**	**2.1200e-003**	**0.0000**	**5.7448**	**5.7448**	**3.9000e-004**	**0.0000**	**5.7547**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2400e-003	9.4000e-004	9.6200e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.0000e-004	0.0000	2.4567	2.4567	7.0000e-005	0.0000	2.4585
Total	**1.2400e-003**	**9.4000e-004**	**9.6200e-003**	**3.0000e-005**	**2.9600e-003**	**2.0000e-005**	**2.9800e-003**	**7.9000e-004**	**2.0000e-005**	**8.0000e-004**	**0.0000**	**2.4567**	**2.4567**	**7.0000e-005**	**0.0000**	**2.4585**

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	1.3606					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9300e-003	0.0344	0.0409	7.0000e-005		2.1200e-003	2.1200e-003		2.1200e-003	2.1200e-003	0.0000	5.7448	5.7448	3.9000e-004	0.0000	5.7547
Total	**1.3656**	**0.0344**	**0.0409**	**7.0000e-005**		**2.1200e-003**	**2.1200e-003**		**2.1200e-003**	**2.1200e-003**	**0.0000**	**5.7448**	**5.7448**	**3.9000e-004**	**0.0000**	**5.7547**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2400e-003	9.4000e-004	9.6200e-003	3.0000e-005	2.7300e-003	2.0000e-005	2.7500e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.4567	2.4567	7.0000e-005	0.0000	2.4585
Total	**1.2400e-003**	**9.4000e-004**	**9.6200e-003**	**3.0000e-005**	**2.7300e-003**	**2.0000e-005**	**2.7500e-003**	**7.3000e-004**	**2.0000e-005**	**7.5000e-004**	**0.0000**	**2.4567**	**2.4567**	**7.0000e-005**	**0.0000**	**2.4585**

Phase 1 Construction_Mitigated-Coating&Tier 4

San Bernardino-South Coast County, 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
Rough Grading	0.75	0.68	-0.19	0.00	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00
Rough Grading Soil Haul	0.18	0.02	-0.57	0.00	0.59	0.57	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

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
Crawler Tractors	Diesel	Tier 4 Interim	1	1	No Change	0.00
Excavators	Diesel	Tier 4 Interim	1	1	No Change	0.00
Graders	Diesel	Tier 4 Interim	2	2	No Change	0.00
Rubber Tired Dozers	Diesel	Tier 4 Interim	2	2	No Change	0.00
Scrapers	Diesel	Tier 4 Interim	6	6	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	0	No Change	0.00

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	4.93000E-003	3.43500E-002	4.08900E-002	7.00000E-005	2.12000E-003	2.12000E-003	0.00000E+000	5.74482E+000	5.74482E+000	3.90000E-004	0.00000E+000	5.75468E+000
Crawler Tractors	8.69000E-003	1.03530E-001	6.06000E-002	1.40000E-004	4.04000E-003	3.71000E-003	0.00000E+000	1.25997E+001	1.25997E+001	4.07000E-003	0.00000E+000	1.27016E+001
Excavators	4.70000E-003	4.70600E-002	3.42200E-002	1.50000E-004	1.56000E-003	1.43000E-003	0.00000E+000	1.32912E+001	1.32912E+001	4.30000E-003	0.00000E+000	1.33987E+001
Graders	1.79600E-002	2.37950E-001	6.88600E-002	2.50000E-004	7.59000E-003	6.98000E-003	0.00000E+000	2.22541E+001	2.22541E+001	7.20000E-003	0.00000E+000	2.24340E+001
Rubber Tired Dozers	2.55100E-002	2.67770E-001	9.78300E-002	2.00000E-004	1.30900E-002	1.20400E-002	0.00000E+000	1.78675E+001	1.78675E+001	5.78000E-003	0.00000E+000	1.80119E+001
Scrapers	6.47600E-002	7.61920E-001	4.86840E-001	1.00000E-003	2.97000E-002	2.73200E-002	0.00000E+000	8.81318E+001	8.81318E+001	2.85000E-002	0.00000E+000	8.88444E+001
Tractors/Loaders/Backhoes	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

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	4.93000E-003	3.43500E-002	4.08900E-002	7.00000E-005	2.12000E-003	2.12000E-003	0.00000E+000	5.74481E+000	5.74481E+000	3.90000E-004	0.00000E+000	5.75467E+000
Crawler Tractors	2.34000E-003	3.77100E-002	7.60100E-002	1.40000E-004	2.30000E-004	2.30000E-004	0.00000E+000	1.25997E+001	1.25997E+001	4.07000E-003	0.00000E+000	1.27016E+001
Excavators	2.49000E-003	4.02000E-002	8.10300E-002	1.50000E-004	2.50000E-004	2.50000E-004	0.00000E+000	1.32912E+001	1.32912E+001	4.30000E-003	0.00000E+000	1.33987E+001
Graders	4.13000E-003	6.66000E-002	1.34240E-001	2.50000E-004	4.10000E-004	4.10000E-004	0.00000E+000	2.22541E+001	2.22541E+001	7.20000E-003	0.00000E+000	2.24340E+001
Rubber Tired Dozers	3.32000E-003	5.35100E-002	1.07850E-001	2.00000E-004	3.30000E-004	3.30000E-004	0.00000E+000	1.78674E+001	1.78674E+001	5.78000E-003	0.00000E+000	1.80119E+001
Scrapers	1.64600E-002	2.65380E-001	5.34870E-001	1.00000E-003	1.65000E-003	1.65000E-003	0.00000E+000	8.81317E+001	8.81317E+001	2.85000E-002	0.00000E+000	8.88443E+001
Tractors/Loaders/Backhoes	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

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	1.74070E-006	1.74070E-006	0.00000E+000	0.00000E+000	1.73772E-006
Crawler Tractors	7.30725E-001	6.35758E-001	-2.54290E-001	0.00000E+000	9.43069E-001	9.38005E-001	0.00000E+000	7.93670E-007	7.93670E-007	0.00000E+000	0.00000E+000	1.57461E-006
Excavators	4.70213E-001	1.45771E-001	-1.36791E+000	0.00000E+000	8.39744E-001	8.25175E-001	0.00000E+000	7.52376E-007	7.52376E-007	0.00000E+000	0.00000E+000	7.46341E-007
Graders	7.70045E-001	7.20109E-001	-9.49463E-001	0.00000E+000	9.45982E-001	9.41261E-001	0.00000E+000	8.98711E-007	8.98711E-007	0.00000E+000	0.00000E+000	1.33725E-006
Rubber Tired Dozers	8.69855E-001	8.00164E-001	-1.02423E-001	0.00000E+000	9.74790E-001	9.72591E-001	0.00000E+000	1.11935E-006	1.11935E-006	0.00000E+000	0.00000E+000	1.11038E-006
Scrapers	7.45831E-001	6.51696E-001	-9.86566E-002	0.00000E+000	9.44444E-001	9.39605E-001	0.00000E+000	1.13466E-006	1.13466E-006	0.00000E+000	0.00000E+000	1.12556E-006
Tractors/Loaders/Backhoes	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

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		
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	9.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	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	0.08	0.08
Rough Grading	Fugitive Dust	0.42	0.13	0.18	0.05	0.57	0.57
Rough Grading	Roads	0.01	0.00	0.01	0.00	0.07	0.07
Rough Grading Soil Haul	Fugitive Dust	0.00	0.00	0.00	0.00	0.57	0.58
Rough Grading Soil Haul	Roads	0.03	0.01	0.03	0.01	0.08	0.07

CalEEMod Output: Phase 2 Construction – Mitigated

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Phase 2 Construction_Tier 4_Paints

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	457.91	1000sqft	9.31	457,904.00	0
Other Asphalt Surfaces	7.90	Acre	7.90	344,070.00	0
Other Non-Asphalt Surfaces	3.99	Acre	3.99	0.00	0
Parking Lot	1.80	Acre	1.80	78,451.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions file in the AQ/GHG appendix.

Construction Phase - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment -

Off-road Equipment - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Trips and VMT - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Demolition -

Grading -

Architectural Coating - See assumptions file in the AQ/GHG appendix for details.

Area Coating -

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186.

Area Mitigation - Mitigation

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	25,351.00	4,707.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	370.00	224.00
tblLandUse	LandUseSquareFeet	457,910.00	457,904.00
tblLandUse	LandUseSquareFeet	344,124.00	344,070.00
tblLandUse	LandUseSquareFeet	173,804.40	0.00
tblLandUse	LandUseSquareFeet	78,408.00	78,451.00
tblLandUse	LotAcreage	10.51	9.31
tblOffRoadEquipment	HorsePower	231.00	110.00
tblOffRoadEquipment	HorsePower	231.00	93.00
tblOffRoadEquipment	HorsePower	100.00	238.00
tblOffRoadEquipment	LoadFactor	0.29	0.56
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	430.44	340.19
tblTripsAndVMT	VendorTripNumber	144.00	2.00
tblTripsAndVMT	WorkerTripNumber	370.00	60.00
tblTripsAndVMT	WorkerTripNumber	74.00	12.00
tblWater	IndoorWaterUseRate	105,891,687.50	83,689,375.00

2.0 Emissions Summary

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	49.7420	19.5802	17.4388	0.0392	0.8176	1.0417	1.8593	0.2171	0.9649	1.1821	0.0000	3,811.8900	3,811.8900	0.9199	0.0000	3,834.8871
Maximum	**49.7420**	**19.5802**	**17.4388**	**0.0392**	**0.8176**	**1.0417**	**1.8593**	**0.2171**	**0.9649**	**1.1821**	**0.0000**	**3,811.8900**	**3,811.8900**	**0.9199**	**0.0000**	**3,834.8871**

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	48.4901	11.2620	22.1952	0.0392	0.7538	0.1331	0.8869	0.2015	0.1326	0.3341	0.0000	3,811.8900	3,811.8900	0.9199	0.0000	3,834.8871
Maximum	**48.4901**	**11.2620**	**22.1952**	**0.0392**	**0.7538**	**0.1331**	**0.8869**	**0.2015**	**0.1326**	**0.3341**	**0.0000**	**3,811.8900**	**3,811.8900**	**0.9199**	**0.0000**	**3,834.8871**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**2.52**	**42.48**	**-27.27**	**0.00**	**7.80**	**87.23**	**52.30**	**7.21**	**86.25**	**71.73**	**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	Building Construction	Building Construction	1/24/2022	12/1/2022	5	224	
2	Architectural Coating	Architectural Coating	8/1/2022	9/30/2022	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 13.69

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 686,856; Non-Residential Outdoor: 228,952; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	8.00	110	0.29
Building Construction	Cranes	2	8.00	93	0.56
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	2	8.00	238	0.40
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	5	60.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 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	1.7844	17.7854	12.8535	0.0280		0.9547	0.9547		0.8783	0.8783		2,714.6667	2,714.6667	0.8780		2,736.6161
Total	**1.7844**	**17.7854**	**12.8535**	**0.0280**		**0.9547**	**0.9547**		**0.8783**	**0.8783**		**2,714.6667**	**2,714.6667**	**0.8780**		**2,736.6161**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8200e-003	0.1829	0.0336	5.4000e-004	0.0128	2.8000e-004	0.0131	3.6900e-003	2.7000e-004	3.9500e-003		56.4615	56.4615	3.4700e-003		56.5483
Worker	0.2847	0.1694	2.2818	6.3500e-003	0.6707	4.1600e-003	0.6748	0.1779	3.8300e-003	0.1817		632.7615	632.7615	0.0168		633.1804
Total	**0.2895**	**0.3524**	**2.3154**	**6.8900e-003**	**0.6835**	**4.4400e-003**	**0.6879**	**0.1816**	**4.1000e-003**	**0.1857**		**689.2230**	**689.2230**	**0.0202**		**689.7287**

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	0.5326	9.4673	17.6099	0.0280		0.0461	0.0461		0.0461	0.0461	0.0000	2,714.6667	2,714.6667	0.8780		2,736.6161
Total	**0.5326**	**9.4673**	**17.6099**	**0.0280**		**0.0461**	**0.0461**		**0.0461**	**0.0461**	**0.0000**	**2,714.6667**	**2,714.6667**	**0.8780**		**2,736.6161**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8200e-003	0.1829	0.0336	5.4000e-004	0.0120	2.8000e-004	0.0123	3.4900e-003	2.7000e-004	3.7500e-003		56.4615	56.4615	3.4700e-003		56.5483
Worker	0.2847	0.1694	2.2818	6.3500e-003	0.6182	4.1600e-003	0.6224	0.1650	3.8300e-003	0.1688		632.7615	632.7615	0.0168		633.1804
Total	**0.2895**	**0.3524**	**2.3154**	**6.8900e-003**	**0.6302**	**4.4400e-003**	**0.6346**	**0.1685**	**4.1000e-003**	**0.1726**		**689.2230**	**689.2230**	**0.0202**		**689.7287**

3.3 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	47.4065					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**47.6111**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0569	0.0339	0.4564	1.2700e-003	0.1341	8.3000e-004	0.1350	0.0356	7.7000e-004	0.0363		126.5523	126.5523	3.3500e-003		126.6361
Total	**0.0569**	**0.0339**	**0.4564**	**1.2700e-003**	**0.1341**	**8.3000e-004**	**0.1350**	**0.0356**	**7.7000e-004**	**0.0363**		**126.5523**	**126.5523**	**3.3500e-003**		**126.6361**

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	47.4065					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**47.6111**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0569	0.0339	0.4564	1.2700e-003	0.1236	8.3000e-004	0.1245	0.0330	7.7000e-004	0.0338		126.5523	126.5523	3.3500e-003		126.6361
Total	**0.0569**	**0.0339**	**0.4564**	**1.2700e-003**	**0.1236**	**8.3000e-004**	**0.1245**	**0.0330**	**7.7000e-004**	**0.0338**		**126.5523**	**126.5523**	**3.3500e-003**		**126.6361**

Phase 2 Construction_Tier 4_Paints

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	457.91	1000sqft	9.31	457,904.00	0
Other Asphalt Surfaces	7.90	Acre	7.90	344,070.00	0
Other Non-Asphalt Surfaces	3.99	Acre	3.99	0.00	0
Parking Lot	1.80	Acre	1.80	78,451.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions file in the AQ/GHG appendix.

Construction Phase - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment -

Off-road Equipment - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Trips and VMT - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Demolition -

Grading -

Architectural Coating - See assumptions file in the AQ/GHG appendix for details.

Area Coating -

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186.

Area Mitigation - Mitigation

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	25,351.00	4,707.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	370.00	224.00
tblLandUse	LandUseSquareFeet	457,910.00	457,904.00
tblLandUse	LandUseSquareFeet	344,124.00	344,070.00
tblLandUse	LandUseSquareFeet	173,804.40	0.00
tblLandUse	LandUseSquareFeet	78,408.00	78,451.00
tblLandUse	LotAcreage	10.51	9.31
tblOffRoadEquipment	HorsePower	231.00	110.00
tblOffRoadEquipment	HorsePower	231.00	93.00
tblOffRoadEquipment	HorsePower	100.00	238.00
tblOffRoadEquipment	LoadFactor	0.29	0.56
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	430.44	340.19
tblTripsAndVMT	VendorTripNumber	144.00	2.00
tblTripsAndVMT	WorkerTripNumber	370.00	60.00
tblTripsAndVMT	WorkerTripNumber	74.00	12.00
tblWater	IndoorWaterUseRate	105,891,687.50	83,689,375.00

2.0 Emissions Summary

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	49.7439	19.5884	16.9487	0.0384	0.8176	1.0417	1.8593	0.2171	0.9649	1.1821	0.0000	3,731.5911	3,731.5911	0.9178	0.0000	3,754.5364
Maximum	**49.7439**	**19.5884**	**16.9487**	**0.0384**	**0.8176**	**1.0417**	**1.8593**	**0.2171**	**0.9649**	**1.1821**	**0.0000**	**3,731.591**	**3,731.5911**	**0.9178**	**0.0000**	**3,754.536**

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	48.4921	11.2703	21.7051	0.0384	0.7538	0.1331	0.8869	0.2015	0.1327	0.3341	0.0000	3,731.5911	3,731.5911	0.9178	0.0000	3,754.5364
Maximum	**48.4921**	**11.2703**	**21.7051**	**0.0384**	**0.7538**	**0.1331**	**0.8869**	**0.2015**	**0.1327**	**0.3341**	**0.0000**	**3,731.5911**	**3,731.5911**	**0.9178**	**0.0000**	**3,754.5364**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**2.52**	**42.46**	**-28.06**	**0.00**	**7.80**	**87.23**	**52.30**	**7.21**	**86.25**	**71.73**	**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	Building Construction	Building Construction	1/24/2022	12/1/2022	5	224	
2	Architectural Coating	Architectural Coating	8/1/2022	9/30/2022	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 13.69

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 686,856; Non-Residential Outdoor: 228,952; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	8.00	110	0.29
Building Construction	Cranes	2	8.00	93	0.56
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	2	8.00	238	0.40
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	5	60.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 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	1.7844	17.7854	12.8535	0.0280		0.9547	0.9547		0.8783	0.8783		2,714.6667	2,714.6667	0.8780		2,736.6161
Total	**1.7844**	**17.7854**	**12.8535**	**0.0280**		**0.9547**	**0.9547**		**0.8783**	**0.8783**		**2,714.6667**	**2,714.6667**	**0.8780**		**2,736.6161**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.1200e-003	0.1808	0.0394	5.1000e-004	0.0128	2.9000e-004	0.0131	3.6900e-003	2.7000e-004	3.9600e-003		54.2513	54.2513	3.8500e-003		54.3476
Worker	0.2861	0.1781	1.8685	5.7000e-003	0.6707	4.1600e-003	0.6748	0.1779	3.8300e-003	0.1817		567.6876	567.6876	0.0147		568.0554
Total	**0.2912**	**0.3589**	**1.9079**	**6.2100e-003**	**0.6835**	**4.4500e-003**	**0.6879**	**0.1816**	**4.1000e-003**	**0.1857**		**621.9388**	**621.9388**	**0.0186**		**622.4030**

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	0.5326	9.4673	17.6099	0.0280		0.0461	0.0461		0.0461	0.0461	0.0000	2,714.6667	2,714.6667	0.8780		2,736.6161
Total	**0.5326**	**9.4673**	**17.6099**	**0.0280**		**0.0461**	**0.0461**		**0.0461**	**0.0461**	**0.0000**	**2,714.6667**	**2,714.6667**	**0.8780**		**2,736.6161**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.1200e-003	0.1808	0.0394	5.1000e-004	0.0120	2.9000e-004	0.0123	3.4900e-003	2.7000e-004	3.7600e-003		54.2513	54.2513	3.8500e-003		54.3476
Worker	0.2861	0.1781	1.8685	5.7000e-003	0.6182	4.1600e-003	0.6224	0.1650	3.8300e-003	0.1688		567.6876	567.6876	0.0147		568.0554
Total	**0.2912**	**0.3589**	**1.9079**	**6.2100e-003**	**0.6302**	**4.4500e-003**	**0.6346**	**0.1685**	**4.1000e-003**	**0.1726**		**621.9388**	**621.9388**	**0.0186**		**622.4030**

3.3 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	47.4065					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**47.6111**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0572	0.0356	0.3737	1.1400e-003	0.1341	8.3000e-004	0.1350	0.0356	7.7000e-004	0.0363		113.5375	113.5375	2.9400e-003		113.6111
Total	**0.0572**	**0.0356**	**0.3737**	**1.1400e-003**	**0.1341**	**8.3000e-004**	**0.1350**	**0.0356**	**7.7000e-004**	**0.0363**		**113.5375**	**113.5375**	**2.9400e-003**		**113.6111**

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	47.4065					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**47.6111**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0572	0.0356	0.3737	1.1400e-003	0.1236	8.3000e-004	0.1245	0.0330	7.7000e-004	0.0338		113.5375	113.5375	2.9400e-003		113.6111
Total	**0.0572**	**0.0356**	**0.3737**	**1.1400e-003**	**0.1236**	**8.3000e-004**	**0.1245**	**0.0330**	**7.7000e-004**	**0.0338**		**113.5375**	**113.5375**	**2.9400e-003**		**113.6111**

Phase 2 Construction_Tier 4_Paints

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	457.91	1000sqft	9.31	457,904.00	0
Other Asphalt Surfaces	7.90	Acre	7.90	344,070.00	0
Other Non-Asphalt Surfaces	3.99	Acre	3.99	0.00	0
Parking Lot	1.80	Acre	1.80	78,451.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions file in the AQ/GHG appendix.

Construction Phase - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment -

Off-road Equipment - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Off-road Equipment - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Trips and VMT - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Demolition -

Grading -

Architectural Coating - See assumptions file in the AQ/GHG appendix for details.

Area Coating -

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186.

Area Mitigation - Mitigation

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	25,351.00	4,707.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	370.00	224.00
tblLandUse	LandUseSquareFeet	457,910.00	457,904.00
tblLandUse	LandUseSquareFeet	344,124.00	344,070.00
tblLandUse	LandUseSquareFeet	173,804.40	0.00
tblLandUse	LandUseSquareFeet	78,408.00	78,451.00
tblLandUse	LotAcreage	10.51	9.31
tblOffRoadEquipment	HorsePower	231.00	110.00
tblOffRoadEquipment	HorsePower	231.00	93.00
tblOffRoadEquipment	HorsePower	100.00	238.00
tblOffRoadEquipment	LoadFactor	0.29	0.56
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	430.44	340.19
tblTripsAndVMT	VendorTripNumber	144.00	2.00
tblTripsAndVMT	WorkerTripNumber	370.00	60.00
tblTripsAndVMT	WorkerTripNumber	74.00	12.00
tblWater	IndoorWaterUseRate	105,891,687.50	83,689,375.00

2.0 Emissions Summary

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	1.3017	2.0662	1.7129	3.9400e-	0.0781	0.1093	0.1873	0.0208	0.1007	0.1215	0.0000	348.5204	348.5204	0.0916	0.0000	350.8091
Maximum	**1.3017**	**2.0662**	**1.7129**	**3.9400e-**	**0.0781**	**0.1093**	**0.1873**	**0.0208**	**0.1007**	**0.1215**	**0.0000**	**348.5204**	**348.5204**	**0.0916**	**0.0000**	**350.8091**

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	1.1615	1.1345	2.2456	3.9400e-003	0.0720	7.5100e-003	0.0795	0.0193	7.4700e-003	0.0268	0.0000	348.5201	348.5201	0.0916	0.0000	350.8088
Maximum	**1.1615**	**1.1345**	**2.2456**	**3.9400e-003**	**0.0720**	**7.5100e-003**	**0.0795**	**0.0193**	**7.4700e-003**	**0.0268**	**0.0000**	**348.5201**	**348.5201**	**0.0916**	**0.0000**	**350.8088**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**10.77**	**45.09**	**-31.10**	**0.00**	**7.78**	**93.13**	**57.56**	**7.18**	**92.58**	**77.97**	**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)
6	**1-5-2022**	**4-4-2022**	0.5127	0.2700
7	**4-5-2022**	**7-4-2022**	0.6569	0.3459
8	**7-5-2022**	**9-30-2022**	1.7051	1.4044
		Highest	1.7051	1.4044

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/24/2022	12/1/2022	5	224	
2	Architectural Coating	Architectural Coating	8/1/2022	9/30/2022	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 13.69

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 686,856; Non-Residential Outdoor: 228,952; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	8.00	110	0.29
Building Construction	Cranes	2	8.00	93	0.56
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	2	8.00	238	0.40
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	5	60.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 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	0.1999	1.9920	1.4396	3.1400e-003		0.1069	0.1069		0.0984	0.0984	0.0000	275.8229	275.8229	0.0892	0.0000	278.0530
Total	**0.1999**	**1.9920**	**1.4396**	**3.1400e-003**		**0.1069**	**0.1069**		**0.0984**	**0.0984**	**0.0000**	**275.8229**	**275.8229**	**0.0892**	**0.0000**	**278.0530**

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	5.5000e-004	0.0206	4.1100e-003	6.0000e-005	1.4100e-003	3.0000e-005	1.4400e-003	4.1000e-004	3.0000e-005	4.4000e-004	0.0000	5.6424	5.6424	3.7000e-004	0.0000	5.6517
Worker	0.0289	0.0210	0.2196	6.5000e-004	0.0737	4.7000e-004	0.0742	0.0196	4.3000e-004	0.0200	0.0000	58.9421	58.9421	1.5400e-003	0.0000	58.9804
Total	**0.0295**	**0.0417**	**0.2237**	**7.1000e-004**	**0.0751**	**5.0000e-004**	**0.0756**	**0.0200**	**4.6000e-004**	**0.0204**	**0.0000**	**64.5845**	**64.5845**	**1.9100e-003**	**0.0000**	**64.6321**

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	0.0597	1.0603	1.9723	3.1400e-003		5.1600e-003	5.1600e-003		5.1600e-003	5.1600e-003	0.0000	275.8225	275.8225	0.0892	0.0000	278.0527
Total	**0.0597**	**1.0603**	**1.9723**	**3.1400e-003**		**5.1600e-003**	**5.1600e-003**		**5.1600e-003**	**5.1600e-003**	**0.0000**	**275.8225**	**275.8225**	**0.0892**	**0.0000**	**278.0527**

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	5.5000e-004	0.0206	4.1100e-003	6.0000e-005	1.3200e-003	3.0000e-005	1.3500e-003	3.9000e-004	3.0000e-005	4.2000e-004	0.0000	5.6424	5.6424	3.7000e-004	0.0000	5.6517
Worker	0.0289	0.0210	0.2196	6.5000e-004	0.0679	4.7000e-004	0.0684	0.0182	4.3000e-004	0.0186	0.0000	58.9421	58.9421	1.5400e-003	0.0000	58.9804
Total	**0.0295**	**0.0417**	**0.2237**	**7.1000e-004**	**0.0693**	**5.0000e-004**	**0.0698**	**0.0186**	**4.6000e-004**	**0.0190**	**0.0000**	**64.5845**	**64.5845**	**1.9100e-003**	**0.0000**	**64.6321**

3.3 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0667					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6000e-003	0.0317	0.0408	7.0000e-005		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003	0.0000	5.7448	5.7448	3.7000e-004	0.0000	5.7542
Total	**1.0713**	**0.0317**	**0.0408**	**7.0000e-005**		**1.8400e-003**	**1.8400e-003**		**1.8400e-003**	**1.8400e-003**	**0.0000**	**5.7448**	**5.7448**	**3.7000e-004**	**0.0000**	**5.7542**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1600e-003	8.4000e-004	8.8200e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.0000e-004	0.0000	2.3682	2.3682	6.0000e-005	0.0000	2.3698
Total	**1.1600e-003**	**8.4000e-004**	**8.8200e-003**	**3.0000e-005**	**2.9600e-003**	**2.0000e-005**	**2.9800e-003**	**7.9000e-004**	**2.0000e-005**	**8.0000e-004**	**0.0000**	**2.3682**	**2.3682**	**6.0000e-005**	**0.0000**	**2.3698**

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	1.0667					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6000e-003	0.0317	0.0408	7.0000e-005		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003	0.0000	5.7448	5.7448	3.7000e-004	0.0000	5.7542
Total	**1.0713**	**0.0317**	**0.0408**	**7.0000e-005**		**1.8400e-003**	**1.8400e-003**		**1.8400e-003**	**1.8400e-003**	**0.0000**	**5.7448**	**5.7448**	**3.7000e-004**	**0.0000**	**5.7542**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1600e-003	8.4000e-004	8.8200e-003	3.0000e-005	2.7300e-003	2.0000e-005	2.7500e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.3682	2.3682	6.0000e-005	0.0000	2.3698
Total	**1.1600e-003**	**8.4000e-004**	**8.8200e-003**	**3.0000e-005**	**2.7300e-003**	**2.0000e-005**	**2.7500e-003**	**7.3000e-004**	**2.0000e-005**	**7.5000e-004**	**0.0000**	**2.3682**	**2.3682**	**6.0000e-005**	**0.0000**	**2.3698**

Phase 2 Construction_Tier 4_Paints

San Bernardino-South Coast County, 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	0.61	0.46	-0.32	0.00	0.95	0.94	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

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
Cranes	Diesel	Tier 4 Interim	3	3	No Change	0.00
Forklifts	Diesel	No Change	0	0	No Change	0.00
Generator Sets	Diesel	No Change	0	0	No Change	0.00
Rough Terrain Forklifts	Diesel	Tier 4 Interim	2	2	No Change	0.00
Welders	Diesel	No Change	0	0	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	0	No Change	0.00

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	4.60000E-003	3.16900E-002	4.08100E-002	7.00000E-005	1.84000E-003	1.84000E-003	0.00000E+000	5.74482E+000	5.74482E+000	3.70000E-004	0.00000E+000	5.75417E+000
Cranes	1.55300E-001	1.38385E+000	1.06753E+000	1.30000E-003	9.29600E-002	8.55300E-002	0.00000E+000	1.14593E+002	1.14593E+002	3.70600E-002	0.00000E+000	1.15520E+002
Forklifts	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
Generator Sets	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
Rough Terrain Forklifts	4.45600E-002	6.08120E-001	3.72060E-001	1.84000E-003	1.39600E-002	1.28500E-002	0.00000E+000	1.61229E+002	1.61229E+002	5.21400E-002	0.00000E+000	1.62533E+002
Tractors/Loaders/Backhoes	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
Welders	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

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	4.60000E-003	3.16900E-002	4.08100E-002	7.00000E-005	1.84000E-003	1.84000E-003	0.00000E+000	5.74481E+000	5.74481E+000	3.70000E-004	0.00000E+000	5.75416E+000
Cranes	2.95600E-002	5.75160E-001	9.94430E-001	1.30000E-003	2.15000E-003	2.15000E-003	0.00000E+000	1.14593E+002	1.14593E+002	3.70600E-002	0.00000E+000	1.15520E+002
Forklifts	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
Generator Sets	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
Rough Terrain Forklifts	3.00900E-002	4.85170E-001	9.77870E-001	1.84000E-003	3.01000E-003	3.01000E-003	0.00000E+000	1.61229E+002	1.61229E+002	5.21400E-002	0.00000E+000	1.62533E+002
Tractors/Loaders/Backhoes	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
Welders	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

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	1.74070E-006	1.74070E-006	0.00000E+000	0.00000E+000	1.73787E-006
Cranes	8.09659E-001	5.84377E-001	6.84758E-002	0.00000E+000	9.76872E-001	9.74863E-001	0.00000E+000	1.22171E-006	1.22171E-006	0.00000E+000	0.00000E+000	1.12535E-006
Forklifts	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
Generator Sets	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
Rough Terrain Forklifts	3.24731E-001	2.02180E-001	-1.62826E+000	0.00000E+000	7.84384E-001	7.65759E-001	0.00000E+000	1.17844E-006	1.17844E-006	0.00000E+000	0.00000E+000	1.16899E-006
Tractors/Loaders/Backhoes	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
Welders	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

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		
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	9.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	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	0.08	0.08
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.08	0.02	0.07	0.02	0.08	0.07

CalEEMod Output: Operation – Proposed Project & Passenger Vehicles

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Operation_Main

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	327.87	1000sqft	13.99	327,874.00	0
Refrigerated Warehouse-No Rail	200.00	1000sqft	13.99	200,000.00	0
Unrefrigerated Warehouse-No Rail	1,377.15	1000sqft	13.99	1,377,153.00	0
Other Asphalt Surfaces	25.21	Acre	25.21	1,098,198.00	0
Other Non-Asphalt Surfaces	9.71	Acre	9.71	0.00	0
Parking Lot	8.12	Acre	8.12	353,766.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	504.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See assumptions file in the AQ/GHG Appendix of the DEIR.

Land Use - See assumptions file in the AQ/GHG appendix of the DEIR.

Construction Phase -

Off-road Equipment -

Vehicle Trips - Based on information provided by Urban Crossroads. See assumptions file in the AQ/GHG appendix of the DEIR for details.

Area Coating - See assumptions file in the AQ/GHG appendix of the DEIR for details.

Water And Wastewater - See assumptions file in the AQ/GHG appendix of the DEIR for details.

Solid Waste - See assumptions file in the AQ/GHG appendix of the DEIR for further details.

Construction Off-road Equipment Mitigation - Assumes forklifts use for warehousing operations would be indoors and CNG-powered.

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - Anticipated based on building specs and operations.

Off-road Equipment - .

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	952512	952514
tblAreaCoating	Area_Nonresidential_Interior	2857536	2857541
tblAreaCoating	Area_Parking	87118	21226
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	LDA	0.55	0.61
tblFleetMix	LDA	0.55	0.61
tblFleetMix	LDA	0.55	0.61
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.18	0.20

tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	5.1010e-003	0.00
tblFleetMix	LHD2	5.1010e-003	0.00
tblFleetMix	LHD2	5.1010e-003	0.00
tblFleetMix	MCY	5.9030e-003	6.5000e-003
tblFleetMix	MCY	5.9030e-003	6.5000e-003
tblFleetMix	MCY	5.9030e-003	6.5000e-003
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	9.4400e-004	0.00
tblFleetMix	MH	9.4400e-004	0.00
tblFleetMix	MH	9.4400e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3570e-003	0.00
tblFleetMix	OBUS	1.3570e-003	0.00
tblFleetMix	OBUS	1.3570e-003	0.00
tblFleetMix	SBUS	8.0800e-004	0.00
tblFleetMix	SBUS	8.0800e-004	0.00
tblFleetMix	SBUS	8.0800e-004	0.00
tblFleetMix	UBUS	1.5650e-003	0.00

tblFleetMix	UBUS	1.5650e-003	0.00
tblFleetMix	UBUS	1.5650e-003	0.00
tblLandUse	LandUseSquareFeet	327,870.00	327,874.00
tblLandUse	LandUseSquareFeet	1,377,150.00	1,377,153.00
tblLandUse	LandUseSquareFeet	1,098,147.60	1,098,198.00
tblLandUse	LandUseSquareFeet	422,967.60	0.00
tblLandUse	LandUseSquareFeet	353,707.20	353,766.00
tblLandUse	LotAcreage	7.53	13.99
tblLandUse	LotAcreage	4.59	13.99
tblLandUse	LotAcreage	31.62	13.99
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	20.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.20	0.20
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	126.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	504.44
tblSolidWaste	SolidWasteGenerationRate	304.92	359.02
tblSolidWaste	SolidWasteGenerationRate	188.00	518.30
tblSolidWaste	SolidWasteGenerationRate	1,294.52	3,568.89
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tblVehicleEF	HHD	0.57	0.67
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tblVehicleEF	HHD	1,475.79	1,484.27
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tblVehicleEF	HHD	0.04	0.04
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tblVehicleEF	HHD	8.6000e-005	0.00
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tblVehicleEF	HHD	8.8810e-003	8.6000e-003
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tblVehicleEF	HHD	0.06	1.0000e-006

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tblVehicleEF	LDT1	1.54	1.52

tblVehicleEF	LDT1	3.61	2.38
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tblVehicleEF	LDT1	0.22	0.30
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tblVehicleEF	LDT1	3.3960e-003	2.6050e-003
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tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.03	0.03
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tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.86
tblVehicleEF	LDT1	0.28	0.47
tblVehicleEF	LDT1	0.02	8.4640e-003
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tblVehicleEF	LDT1	1.85	1.80
tblVehicleEF	LDT1	2.97	2.00

tblVehicleEF	LDT1	341.75	335.30
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tblVehicleEF	LDT1	2.7050e-003	2.3390e-003
tblVehicleEF	LDT1	3.6920e-003	2.8340e-003
tblVehicleEF	LDT1	2.4910e-003	2.1530e-003
tblVehicleEF	LDT1	3.3960e-003	2.6050e-003
tblVehicleEF	LDT1	0.37	0.36
tblVehicleEF	LDT1	0.41	0.31
tblVehicleEF	LDT1	0.27	0.26
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.20	0.85
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	3.4420e-003	3.3180e-003
tblVehicleEF	LDT1	7.6200e-004	6.3800e-004
tblVehicleEF	LDT1	0.37	0.36
tblVehicleEF	LDT1	0.41	0.31
tblVehicleEF	LDT1	0.27	0.26
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.85
tblVehicleEF	LDT1	0.23	0.40
tblVehicleEF	LDT1	0.01	7.4310e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.47	1.46
tblVehicleEF	LDT1	3.55	2.39
tblVehicleEF	LDT1	307.06	308.38

tblVehicleEF	LDT1	70.93	65.29
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	0.21	0.29
tblVehicleEF	LDT1	2.7050e-003	2.3390e-003
tblVehicleEF	LDT1	3.6920e-003	2.8340e-003
tblVehicleEF	LDT1	2.4910e-003	2.1530e-003
tblVehicleEF	LDT1	3.3960e-003	2.6050e-003
tblVehicleEF	LDT1	0.19	0.19
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.00
tblVehicleEF	LDT1	0.25	0.43
tblVehicleEF	LDT1	3.0890e-003	3.0520e-003
tblVehicleEF	LDT1	7.7200e-004	6.4600e-004
tblVehicleEF	LDT1	0.19	0.19
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.23	1.00
tblVehicleEF	LDT1	0.28	0.47
tblVehicleEF	LDT2	6.3270e-003	4.4090e-003
tblVehicleEF	LDT2	8.1990e-003	0.07
tblVehicleEF	LDT2	0.80	1.00
tblVehicleEF	LDT2	1.67	2.71
tblVehicleEF	LDT2	351.15	333.43
tblVehicleEF	LDT2	79.39	69.80

tblVehicleEF	LDT2	0.09	0.09
tblVehicleEF	LDT2	0.14	0.30
tblVehicleEF	LDT2	1.7270e-003	1.5990e-003
tblVehicleEF	LDT2	2.4170e-003	1.9200e-003
tblVehicleEF	LDT2	1.5880e-003	1.4710e-003
tblVehicleEF	LDT2	2.2220e-003	1.7660e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.11	0.33
tblVehicleEF	LDT2	3.5180e-003	3.2990e-003
tblVehicleEF	LDT2	8.2200e-004	6.9100e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.12	0.36
tblVehicleEF	LDT2	7.1840e-003	4.9540e-003
tblVehicleEF	LDT2	6.8290e-003	0.06
tblVehicleEF	LDT2	0.97	1.19
tblVehicleEF	LDT2	1.38	2.27
tblVehicleEF	LDT2	383.36	355.41
tblVehicleEF	LDT2	79.39	68.95
tblVehicleEF	LDT2	0.08	0.08

tblVehicleEF	LDT2	0.13	0.28
tblVehicleEF	LDT2	1.7270e-003	1.5990e-003
tblVehicleEF	LDT2	2.4170e-003	1.9200e-003
tblVehicleEF	LDT2	1.5880e-003	1.4710e-003
tblVehicleEF	LDT2	2.2220e-003	1.7660e-003
tblVehicleEF	LDT2	0.13	0.18
tblVehicleEF	LDT2	0.15	0.16
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.8420e-003	3.5160e-003
tblVehicleEF	LDT2	8.1700e-004	6.8200e-004
tblVehicleEF	LDT2	0.13	0.18
tblVehicleEF	LDT2	0.15	0.16
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	6.1560e-003	4.3220e-003
tblVehicleEF	LDT2	8.1410e-003	0.07
tblVehicleEF	LDT2	0.75	0.96
tblVehicleEF	LDT2	1.64	2.72
tblVehicleEF	LDT2	343.55	329.34
tblVehicleEF	LDT2	79.39	69.82
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.14	0.30

tblVehicleEF	LDT2	1.7270e-003	1.5990e-003
tblVehicleEF	LDT2	2.4170e-003	1.9200e-003
tblVehicleEF	LDT2	1.5880e-003	1.4710e-003
tblVehicleEF	LDT2	2.2220e-003	1.7660e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.52
tblVehicleEF	LDT2	0.11	0.33
tblVehicleEF	LDT2	3.4410e-003	3.2580e-003
tblVehicleEF	LDT2	8.2200e-004	6.9100e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.52
tblVehicleEF	LDT2	0.12	0.37
tblVehicleEF	LHD1	5.2170e-003	5.0850e-003
tblVehicleEF	LHD1	0.01	6.1020e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.07	0.75
tblVehicleEF	LHD1	2.60	1.03
tblVehicleEF	LHD1	9.23	9.25
tblVehicleEF	LHD1	609.20	652.45
tblVehicleEF	LHD1	30.40	11.21

tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	2.12	1.25
tblVehicleEF	LHD1	0.99	0.32
tblVehicleEF	LHD1	9.6500e-004	8.9000e-004
tblVehicleEF	LHD1	0.01	9.8770e-003
tblVehicleEF	LHD1	0.01	9.8260e-003
tblVehicleEF	LHD1	9.5800e-004	2.6000e-004
tblVehicleEF	LHD1	9.2400e-004	8.5100e-004
tblVehicleEF	LHD1	2.5390e-003	2.4690e-003
tblVehicleEF	LHD1	0.01	9.3750e-003
tblVehicleEF	LHD1	8.8100e-004	2.3900e-004
tblVehicleEF	LHD1	3.7070e-003	3.0390e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8240e-003	1.5810e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.55
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3570e-003
tblVehicleEF	LHD1	3.5300e-004	1.1100e-004
tblVehicleEF	LHD1	3.7070e-003	3.0390e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8240e-003	1.5810e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.35	0.55

tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.2170e-003	5.0990e-003
tblVehicleEF	LHD1	0.01	6.2280e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.09	0.76
tblVehicleEF	LHD1	2.43	0.98
tblVehicleEF	LHD1	9.23	9.25
tblVehicleEF	LHD1	609.20	652.47
tblVehicleEF	LHD1	30.40	11.12
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.98	1.17
tblVehicleEF	LHD1	0.94	0.31
tblVehicleEF	LHD1	9.6500e-004	8.9000e-004
tblVehicleEF	LHD1	0.01	9.8770e-003
tblVehicleEF	LHD1	0.01	9.8260e-003
tblVehicleEF	LHD1	9.5800e-004	2.6000e-004
tblVehicleEF	LHD1	9.2400e-004	8.5100e-004
tblVehicleEF	LHD1	2.5390e-003	2.4690e-003
tblVehicleEF	LHD1	0.01	9.3750e-003
tblVehicleEF	LHD1	8.8100e-004	2.3900e-004
tblVehicleEF	LHD1	7.3080e-003	5.4780e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.1220e-003	3.0450e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.36	0.56

tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9770e-003	6.3570e-003
tblVehicleEF	LHD1	3.5000e-004	1.1000e-004
tblVehicleEF	LHD1	7.3080e-003	5.4780e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.1220e-003	3.0450e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.36	0.56
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.2170e-003	5.0870e-003
tblVehicleEF	LHD1	0.01	6.1100e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.07	0.75
tblVehicleEF	LHD1	2.55	1.02
tblVehicleEF	LHD1	9.23	9.25
tblVehicleEF	LHD1	609.20	652.45
tblVehicleEF	LHD1	30.40	11.20
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	2.08	1.23
tblVehicleEF	LHD1	0.97	0.31
tblVehicleEF	LHD1	9.6500e-004	8.9000e-004
tblVehicleEF	LHD1	0.01	9.8770e-003
tblVehicleEF	LHD1	0.01	9.8260e-003
tblVehicleEF	LHD1	9.5800e-004	2.6000e-004

tblVehicleEF	LHD1	9.2400e-004	8.5100e-004
tblVehicleEF	LHD1	2.5390e-003	2.4690e-003
tblVehicleEF	LHD1	0.01	9.3750e-003
tblVehicleEF	LHD1	8.8100e-004	2.3900e-004
tblVehicleEF	LHD1	4.0430e-003	3.1520e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7940e-003	1.6100e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.60
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3570e-003
tblVehicleEF	LHD1	3.5200e-004	1.1100e-004
tblVehicleEF	LHD1	4.0430e-003	3.1520e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7940e-003	1.6100e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.38	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	3.5950e-003	3.6950e-003
tblVehicleEF	LHD2	4.6110e-003	4.1040e-003
tblVehicleEF	LHD2	8.1370e-003	0.01
tblVehicleEF	LHD2	0.12	0.15
tblVehicleEF	LHD2	0.50	0.50
tblVehicleEF	LHD2	1.20	0.67

tblVehicleEF	LHD2	14.27	14.14
tblVehicleEF	LHD2	608.52	665.25
tblVehicleEF	LHD2	24.46	8.76
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.49	1.36
tblVehicleEF	LHD2	0.53	0.22
tblVehicleEF	LHD2	1.2830e-003	1.3100e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.3700e-004
tblVehicleEF	LHD2	1.2280e-003	1.2540e-003
tblVehicleEF	LHD2	2.6860e-003	2.6560e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.2600e-004
tblVehicleEF	LHD2	1.3070e-003	1.7040e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.0300e-004	9.2000e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.9200e-003	6.4300e-003
tblVehicleEF	LHD2	2.6700e-004	8.7000e-005
tblVehicleEF	LHD2	1.3070e-003	1.7040e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	7.0300e-004	9.2000e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	3.5950e-003	3.7050e-003
tblVehicleEF	LHD2	4.6760e-003	4.1460e-003
tblVehicleEF	LHD2	7.7630e-003	0.01
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tblVehicleEF	LHD2	0.50	0.50
tblVehicleEF	LHD2	1.13	0.64
tblVehicleEF	LHD2	14.27	14.14
tblVehicleEF	LHD2	608.52	665.25
tblVehicleEF	LHD2	24.46	8.70
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.40	1.28
tblVehicleEF	LHD2	0.50	0.21
tblVehicleEF	LHD2	1.2830e-003	1.3100e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.3700e-004
tblVehicleEF	LHD2	1.2280e-003	1.2540e-003
tblVehicleEF	LHD2	2.6860e-003	2.6560e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.2600e-004
tblVehicleEF	LHD2	2.5220e-003	3.0730e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	1.5220e-003	1.7630e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.9200e-003	6.4300e-003
tblVehicleEF	LHD2	2.6500e-004	8.6000e-005
tblVehicleEF	LHD2	2.5220e-003	3.0730e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7630e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.5950e-003	3.6960e-003
tblVehicleEF	LHD2	4.6180e-003	4.1080e-003
tblVehicleEF	LHD2	8.0640e-003	0.01
tblVehicleEF	LHD2	0.12	0.15
tblVehicleEF	LHD2	0.50	0.50
tblVehicleEF	LHD2	1.19	0.67
tblVehicleEF	LHD2	14.27	14.14
tblVehicleEF	LHD2	608.52	665.25
tblVehicleEF	LHD2	24.46	8.75
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.46	1.33
tblVehicleEF	LHD2	0.52	0.22
tblVehicleEF	LHD2	1.2830e-003	1.3100e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.3700e-004
tblVehicleEF	LHD2	1.2280e-003	1.2540e-003
tblVehicleEF	LHD2	2.6860e-003	2.6560e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.2600e-004
tblVehicleEF	LHD2	1.3460e-003	1.7140e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.8700e-004	9.2200e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.10	0.34
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.9200e-003	6.4300e-003
tblVehicleEF	LHD2	2.6600e-004	8.7000e-005
tblVehicleEF	LHD2	1.3460e-003	1.7140e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.8700e-004	9.2200e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.10	0.34
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	20.55	19.26

tblVehicleEF	MCY	9.93	8.60
tblVehicleEF	MCY	167.73	212.03
tblVehicleEF	MCY	46.45	60.73
tblVehicleEF	MCY	1.16	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8610e-003	1.9650e-003
tblVehicleEF	MCY	3.6730e-003	2.9600e-003
tblVehicleEF	MCY	1.7420e-003	1.8380e-003
tblVehicleEF	MCY	3.4650e-003	2.7870e-003
tblVehicleEF	MCY	1.45	1.42
tblVehicleEF	MCY	0.84	0.80
tblVehicleEF	MCY	0.80	0.78
tblVehicleEF	MCY	2.23	2.33
tblVehicleEF	MCY	0.49	1.91
tblVehicleEF	MCY	2.16	1.84
tblVehicleEF	MCY	2.0770e-003	2.0980e-003
tblVehicleEF	MCY	6.9000e-004	6.0100e-004
tblVehicleEF	MCY	1.45	1.42
tblVehicleEF	MCY	0.84	0.80
tblVehicleEF	MCY	0.80	0.78
tblVehicleEF	MCY	2.74	2.87
tblVehicleEF	MCY	0.49	1.91
tblVehicleEF	MCY	2.35	2.01
tblVehicleEF	MCY	0.42	0.34
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	20.68	19.28
tblVehicleEF	MCY	9.05	7.90

tblVehicleEF	MCY	167.73	211.90
tblVehicleEF	MCY	46.45	58.88
tblVehicleEF	MCY	0.99	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8610e-003	1.9650e-003
tblVehicleEF	MCY	3.6730e-003	2.9600e-003
tblVehicleEF	MCY	1.7420e-003	1.8380e-003
tblVehicleEF	MCY	3.4650e-003	2.7870e-003
tblVehicleEF	MCY	3.14	2.77
tblVehicleEF	MCY	1.27	1.11
tblVehicleEF	MCY	2.13	1.77
tblVehicleEF	MCY	2.17	2.28
tblVehicleEF	MCY	0.49	1.88
tblVehicleEF	MCY	1.86	1.62
tblVehicleEF	MCY	2.0770e-003	2.0970e-003
tblVehicleEF	MCY	6.6700e-004	5.8300e-004
tblVehicleEF	MCY	3.14	2.77
tblVehicleEF	MCY	1.27	1.11
tblVehicleEF	MCY	2.13	1.77
tblVehicleEF	MCY	2.67	2.81
tblVehicleEF	MCY	0.49	1.88
tblVehicleEF	MCY	2.02	1.76
tblVehicleEF	MCY	0.42	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.63	18.76
tblVehicleEF	MCY	9.55	8.44
tblVehicleEF	MCY	167.73	211.17

tblVehicleEF	MCY	46.45	60.38
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8610e-003	1.9650e-003
tblVehicleEF	MCY	3.6730e-003	2.9600e-003
tblVehicleEF	MCY	1.7420e-003	1.8380e-003
tblVehicleEF	MCY	3.4650e-003	2.7870e-003
tblVehicleEF	MCY	1.71	1.57
tblVehicleEF	MCY	1.13	1.06
tblVehicleEF	MCY	0.72	0.74
tblVehicleEF	MCY	2.19	2.31
tblVehicleEF	MCY	0.56	2.18
tblVehicleEF	MCY	2.08	1.81
tblVehicleEF	MCY	2.0610e-003	2.0900e-003
tblVehicleEF	MCY	6.8200e-004	5.9800e-004
tblVehicleEF	MCY	1.71	1.57
tblVehicleEF	MCY	1.13	1.06
tblVehicleEF	MCY	0.72	0.74
tblVehicleEF	MCY	2.69	2.84
tblVehicleEF	MCY	0.56	2.18
tblVehicleEF	MCY	2.27	1.98
tblVehicleEF	MDV	0.01	5.5200e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.35	1.13
tblVehicleEF	MDV	3.25	3.24
tblVehicleEF	MDV	483.94	412.47
tblVehicleEF	MDV	107.92	86.76

tblVehicleEF	MDV	0.17	0.11
tblVehicleEF	MDV	0.32	0.38
tblVehicleEF	MDV	1.8260e-003	1.6820e-003
tblVehicleEF	MDV	2.5170e-003	2.0280e-003
tblVehicleEF	MDV	1.6830e-003	1.5510e-003
tblVehicleEF	MDV	2.3150e-003	1.8650e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MDV	4.8500e-003	4.0780e-003
tblVehicleEF	MDV	1.1370e-003	8.5900e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.28	0.48
tblVehicleEF	MDV	0.01	6.2110e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.64	1.35
tblVehicleEF	MDV	2.69	2.71
tblVehicleEF	MDV	526.85	435.67
tblVehicleEF	MDV	107.92	85.71
tblVehicleEF	MDV	0.16	0.10

tblVehicleEF	MDV	0.30	0.35
tblVehicleEF	MDV	1.8260e-003	1.6820e-003
tblVehicleEF	MDV	2.5170e-003	2.0280e-003
tblVehicleEF	MDV	1.6830e-003	1.5510e-003
tblVehicleEF	MDV	2.3150e-003	1.8650e-003
tblVehicleEF	MDV	0.20	0.21
tblVehicleEF	MDV	0.23	0.19
tblVehicleEF	MDV	0.17	0.19
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.49
tblVehicleEF	MDV	0.21	0.38
tblVehicleEF	MDV	5.2830e-003	4.3080e-003
tblVehicleEF	MDV	1.1260e-003	8.4800e-004
tblVehicleEF	MDV	0.20	0.21
tblVehicleEF	MDV	0.23	0.19
tblVehicleEF	MDV	0.17	0.19
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.49
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	0.01	5.4050e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.28	1.09
tblVehicleEF	MDV	3.20	3.25
tblVehicleEF	MDV	473.93	408.15
tblVehicleEF	MDV	107.92	86.78
tblVehicleEF	MDV	0.16	0.10
tblVehicleEF	MDV	0.32	0.38

tblVehicleEF	MDV	1.8260e-003	1.6820e-003
tblVehicleEF	MDV	2.5170e-003	2.0280e-003
tblVehicleEF	MDV	1.6830e-003	1.5510e-003
tblVehicleEF	MDV	2.3150e-003	1.8650e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.57
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MDV	4.7490e-003	4.0360e-003
tblVehicleEF	MDV	1.1360e-003	8.5900e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.57
tblVehicleEF	MDV	0.27	0.48
tblVehicleEF	MH	0.04	3.6580e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.07	0.35
tblVehicleEF	MH	6.43	0.00
tblVehicleEF	MH	1,045.05	970.21
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.54	4.24
tblVehicleEF	MH	0.91	0.00
tblVehicleEF	MH	0.01	0.02

tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.0790e-003	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	9.1720e-003
tblVehicleEF	MH	7.0700e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.14	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.04	3.6580e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.19	0.35
tblVehicleEF	MH	5.84	0.00
tblVehicleEF	MH	1,045.05	970.21
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.41	4.00
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tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.0790e-003	0.00
tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.01	9.1720e-003
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tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.04	3.6580e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.08	0.35
tblVehicleEF	MH	6.36	0.00
tblVehicleEF	MH	1,045.05	970.21
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.51	4.17

tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.0790e-003	0.00
tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	9.1720e-003
tblVehicleEF	MH	7.0600e-004	0.00
tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MHD	0.02	2.5070e-003
tblVehicleEF	MHD	3.5160e-003	3.3210e-003
tblVehicleEF	MHD	0.05	6.4670e-003
tblVehicleEF	MHD	0.32	0.31
tblVehicleEF	MHD	0.27	0.32
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tblVehicleEF	MHD	0.99	1.61
tblVehicleEF	MHD	11.88	1.50
tblVehicleEF	MHD	3.8600e-004	1.2310e-003
tblVehicleEF	MHD	5.0030e-003	0.04
tblVehicleEF	MHD	7.6400e-004	7.5000e-005
tblVehicleEF	MHD	3.6900e-004	1.1780e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	6.9000e-005
tblVehicleEF	MHD	1.2800e-003	4.5300e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.5100e-004	2.4000e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.03
tblVehicleEF	MHD	1.5080e-003	6.5300e-004
tblVehicleEF	MHD	0.01	9.2620e-003
tblVehicleEF	MHD	6.1700e-004	6.3000e-005
tblVehicleEF	MHD	1.2800e-003	4.5300e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.5100e-004	2.4000e-004
tblVehicleEF	MHD	0.04	0.07

tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	MHD	0.02	2.3860e-003
tblVehicleEF	MHD	3.5800e-003	3.3450e-003
tblVehicleEF	MHD	0.05	6.2100e-003
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tblVehicleEF	MHD	0.28	0.33
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tblVehicleEF	MHD	166.20	69.59
tblVehicleEF	MHD	1,101.52	974.58
tblVehicleEF	MHD	52.43	6.28
tblVehicleEF	MHD	0.62	0.52
tblVehicleEF	MHD	0.92	1.52
tblVehicleEF	MHD	11.85	1.49
tblVehicleEF	MHD	3.2500e-004	1.0410e-003
tblVehicleEF	MHD	5.0030e-003	0.04
tblVehicleEF	MHD	7.6400e-004	7.5000e-005
tblVehicleEF	MHD	3.1100e-004	9.9600e-004
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	6.9000e-005
tblVehicleEF	MHD	2.5300e-003	8.2800e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5010e-003	4.7800e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.30	0.03

tblVehicleEF	MHD	1.5950e-003	6.5900e-004
tblVehicleEF	MHD	0.01	9.2620e-003
tblVehicleEF	MHD	6.1100e-004	6.2000e-005
tblVehicleEF	MHD	2.5300e-003	8.2800e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5010e-003	4.7800e-004
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	0.02	2.6830e-003
tblVehicleEF	MHD	3.5220e-003	3.3210e-003
tblVehicleEF	MHD	0.05	6.4200e-003
tblVehicleEF	MHD	0.45	0.37
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tblVehicleEF	MHD	1,101.52	974.57
tblVehicleEF	MHD	52.43	6.34
tblVehicleEF	MHD	0.57	0.52
tblVehicleEF	MHD	0.97	1.59
tblVehicleEF	MHD	11.87	1.50
tblVehicleEF	MHD	4.7000e-004	1.4940e-003
tblVehicleEF	MHD	5.0030e-003	0.04
tblVehicleEF	MHD	7.6400e-004	7.5000e-005
tblVehicleEF	MHD	4.4900e-004	1.4300e-003
tblVehicleEF	MHD	4.7830e-003	0.03

tblVehicleEF	MHD	7.0300e-004	6.9000e-005
tblVehicleEF	MHD	1.3890e-003	4.7100e-004
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tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.4000e-004	2.4400e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.32	0.03
tblVehicleEF	MHD	1.3860e-003	6.4400e-004
tblVehicleEF	MHD	0.01	9.2620e-003
tblVehicleEF	MHD	6.1600e-004	6.3000e-005
tblVehicleEF	MHD	1.3890e-003	4.7100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.4000e-004	2.4400e-004
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.35	0.04
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tblVehicleEF	OBUS	9.9110e-003	6.5960e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.52
tblVehicleEF	OBUS	0.63	0.77
tblVehicleEF	OBUS	6.27	2.45
tblVehicleEF	OBUS	70.35	76.06
tblVehicleEF	OBUS	1,121.50	1,406.90
tblVehicleEF	OBUS	70.70	20.49

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tblVehicleEF	OBUS	0.97	1.24
tblVehicleEF	OBUS	1.93	0.68
tblVehicleEF	OBUS	6.4000e-005	5.8900e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.1800e-004
tblVehicleEF	OBUS	6.1000e-005	5.6400e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.0100e-004
tblVehicleEF	OBUS	2.1800e-003	2.6020e-003
tblVehicleEF	OBUS	0.02	0.02
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tblVehicleEF	OBUS	9.3100e-004	1.1160e-003
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	6.8400e-004	7.2500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1700e-004	2.0300e-004
tblVehicleEF	OBUS	2.1800e-003	2.6020e-003
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tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.3100e-004	1.1160e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.42	0.13
tblVehicleEF	OBUS	0.01	8.8750e-003

tblVehicleEF	OBUS	0.01	6.7350e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.51
tblVehicleEF	OBUS	0.65	0.79
tblVehicleEF	OBUS	5.74	2.28
tblVehicleEF	OBUS	73.50	75.90
tblVehicleEF	OBUS	1,121.50	1,406.93
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tblVehicleEF	OBUS	0.90	1.16
tblVehicleEF	OBUS	1.88	0.67
tblVehicleEF	OBUS	5.4000e-005	5.0100e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.1800e-004
tblVehicleEF	OBUS	5.1000e-005	4.7900e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.0100e-004
tblVehicleEF	OBUS	4.2350e-003	4.6860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.1330e-003	2.2090e-003
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.11
tblVehicleEF	OBUS	7.1400e-004	7.2400e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0800e-004	2.0000e-004

tblVehicleEF	OBUS	4.2350e-003	4.6860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	2.1330e-003	2.2090e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.40	0.12
tblVehicleEF	OBUS	0.01	8.7740e-003
tblVehicleEF	OBUS	9.9380e-003	6.6000e-003
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tblVehicleEF	OBUS	0.28	0.53
tblVehicleEF	OBUS	0.63	0.77
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tblVehicleEF	OBUS	66.00	76.30
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tblVehicleEF	OBUS	0.27	0.35
tblVehicleEF	OBUS	0.96	1.22
tblVehicleEF	OBUS	1.91	0.68
tblVehicleEF	OBUS	7.7000e-005	7.1200e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.1800e-004
tblVehicleEF	OBUS	7.4000e-005	6.8100e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.0100e-004
tblVehicleEF	OBUS	2.3200e-003	2.7390e-003
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tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.4100e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.05	0.30
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	6.4200e-004	7.2700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1600e-004	2.0300e-004
tblVehicleEF	OBUS	2.3200e-003	2.7390e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.4100e-004	1.1650e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.30
tblVehicleEF	OBUS	0.42	0.13
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	0.01	8.5840e-003
tblVehicleEF	SBUS	0.07	6.1570e-003
tblVehicleEF	SBUS	5.71	2.50
tblVehicleEF	SBUS	0.65	0.78
tblVehicleEF	SBUS	5.33	0.82
tblVehicleEF	SBUS	1,258.13	345.06
tblVehicleEF	SBUS	1,136.31	1,112.17
tblVehicleEF	SBUS	37.11	4.79
tblVehicleEF	SBUS	11.70	3.29
tblVehicleEF	SBUS	4.77	5.20
tblVehicleEF	SBUS	15.02	0.91

tblVehicleEF	SBUS	0.01	4.3580e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	4.1690e-003
tblVehicleEF	SBUS	2.7560e-003	2.7010e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	3.6000e-005
tblVehicleEF	SBUS	2.9260e-003	1.2420e-003
tblVehicleEF	SBUS	0.02	9.5120e-003
tblVehicleEF	SBUS	0.68	0.28
tblVehicleEF	SBUS	1.3050e-003	5.9000e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	9.3510e-003	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.2890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6300e-004	4.7000e-005
tblVehicleEF	SBUS	2.9260e-003	1.2420e-003
tblVehicleEF	SBUS	0.02	9.5120e-003
tblVehicleEF	SBUS	0.97	0.40
tblVehicleEF	SBUS	1.3050e-003	5.9000e-004
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	9.3510e-003	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	0.01	8.7140e-003

tblVehicleEF	SBUS	0.06	5.1550e-003
tblVehicleEF	SBUS	5.56	2.47
tblVehicleEF	SBUS	0.66	0.80
tblVehicleEF	SBUS	3.65	0.60
tblVehicleEF	SBUS	1,322.00	352.98
tblVehicleEF	SBUS	1,136.31	1,112.20
tblVehicleEF	SBUS	37.11	4.41
tblVehicleEF	SBUS	12.08	3.36
tblVehicleEF	SBUS	4.47	4.88
tblVehicleEF	SBUS	14.99	0.90
tblVehicleEF	SBUS	0.01	3.6810e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	4.0000e-005
tblVehicleEF	SBUS	9.6490e-003	3.5220e-003
tblVehicleEF	SBUS	2.7560e-003	2.7010e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	3.6000e-005
tblVehicleEF	SBUS	5.6170e-003	2.2080e-003
tblVehicleEF	SBUS	0.02	9.9850e-003
tblVehicleEF	SBUS	0.67	0.28
tblVehicleEF	SBUS	2.8800e-003	1.1130e-003
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	8.5310e-003	0.06
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3630e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	4.3500e-004	4.4000e-005
tblVehicleEF	SBUS	5.6170e-003	2.2080e-003
tblVehicleEF	SBUS	0.02	9.9850e-003
tblVehicleEF	SBUS	0.97	0.40
tblVehicleEF	SBUS	2.8800e-003	1.1130e-003
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	8.5310e-003	0.06
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	0.01	8.5760e-003
tblVehicleEF	SBUS	0.07	6.3440e-003
tblVehicleEF	SBUS	5.91	2.56
tblVehicleEF	SBUS	0.65	0.78
tblVehicleEF	SBUS	5.37	0.86
tblVehicleEF	SBUS	1,169.92	334.13
tblVehicleEF	SBUS	1,136.31	1,112.17
tblVehicleEF	SBUS	37.11	4.85
tblVehicleEF	SBUS	11.19	3.19
tblVehicleEF	SBUS	4.69	5.12
tblVehicleEF	SBUS	15.02	0.91
tblVehicleEF	SBUS	0.01	5.2920e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	5.0630e-003
tblVehicleEF	SBUS	2.7560e-003	2.7010e-003
tblVehicleEF	SBUS	0.03	0.03

tblVehicleEF	SBUS	4.7500e-004	3.6000e-005
tblVehicleEF	SBUS	2.9580e-003	1.2070e-003
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.68	0.28
tblVehicleEF	SBUS	1.2820e-003	6.0100e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.08
tblVehicleEF	SBUS	0.28	0.04
tblVehicleEF	SBUS	0.01	3.1850e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6400e-004	4.8000e-005
tblVehicleEF	SBUS	2.9580e-003	1.2070e-003
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.98	0.40
tblVehicleEF	SBUS	1.2820e-003	6.0100e-004
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.01	0.08
tblVehicleEF	SBUS	0.31	0.04
tblVehicleEF	UBUS	1.83	4.45
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	9.26	34.75
tblVehicleEF	UBUS	14.34	0.89
tblVehicleEF	UBUS	1,846.39	1,692.13
tblVehicleEF	UBUS	136.37	11.77
tblVehicleEF	UBUS	5.87	0.38
tblVehicleEF	UBUS	13.57	0.14
tblVehicleEF	UBUS	0.52	0.07

tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6550e-003
tblVehicleEF	UBUS	1.4030e-003	1.4100e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5280e-003
tblVehicleEF	UBUS	1.2900e-003	1.3000e-004
tblVehicleEF	UBUS	8.0860e-003	1.6780e-003
tblVehicleEF	UBUS	0.11	9.5390e-003
tblVehicleEF	UBUS	3.9450e-003	7.3700e-004
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.15	0.04
tblVehicleEF	UBUS	0.01	3.0250e-003
tblVehicleEF	UBUS	1.6240e-003	1.1700e-004
tblVehicleEF	UBUS	8.0860e-003	1.6780e-003
tblVehicleEF	UBUS	0.11	9.5390e-003
tblVehicleEF	UBUS	3.9450e-003	7.3700e-004
tblVehicleEF	UBUS	2.50	4.54
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.25	0.04
tblVehicleEF	UBUS	1.83	4.45
tblVehicleEF	UBUS	0.08	9.2350e-003
tblVehicleEF	UBUS	9.36	34.75
tblVehicleEF	UBUS	11.74	0.76
tblVehicleEF	UBUS	1,846.39	1,692.13
tblVehicleEF	UBUS	136.37	11.55

tblVehicleEF	UBUS	5.45	0.38
tblVehicleEF	UBUS	13.45	0.13
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6550e-003
tblVehicleEF	UBUS	1.4030e-003	1.4100e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5280e-003
tblVehicleEF	UBUS	1.2900e-003	1.3000e-004
tblVehicleEF	UBUS	0.02	3.0610e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4840e-003
tblVehicleEF	UBUS	0.62	0.07
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.02	0.03
tblVehicleEF	UBUS	0.01	3.0250e-003
tblVehicleEF	UBUS	1.5790e-003	1.1400e-004
tblVehicleEF	UBUS	0.02	3.0610e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4840e-003
tblVehicleEF	UBUS	2.52	4.54
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.12	0.04
tblVehicleEF	UBUS	1.83	4.45
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	9.27	34.75

tblVehicleEF	UBUS	13.86	0.90
tblVehicleEF	UBUS	1,846.39	1,692.13
tblVehicleEF	UBUS	136.37	11.80
tblVehicleEF	UBUS	5.76	0.38
tblVehicleEF	UBUS	13.55	0.14
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6550e-003
tblVehicleEF	UBUS	1.4030e-003	1.4100e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5280e-003
tblVehicleEF	UBUS	1.2900e-003	1.3000e-004
tblVehicleEF	UBUS	9.2250e-003	1.6870e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	4.1190e-003	7.4500e-004
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.13	0.04
tblVehicleEF	UBUS	0.01	3.0250e-003
tblVehicleEF	UBUS	1.6160e-003	1.1700e-004
tblVehicleEF	UBUS	9.2250e-003	1.6870e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	4.1190e-003	7.4500e-004
tblVehicleEF	UBUS	2.50	4.54
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.24	0.04

tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	16.50
tblVehicleTrips	CW_TL	16.60	16.50
tblVehicleTrips	CW_TL	16.60	16.50
tblVehicleTrips	CW_TTP	33.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	15.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	82.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.64	2.93
tblVehicleTrips	ST_TR	1.68	1.44
tblVehicleTrips	ST_TR	1.68	1.33
tblVehicleTrips	SU_TR	0.76	2.93
tblVehicleTrips	SU_TR	1.68	1.44
tblVehicleTrips	SU_TR	1.68	1.31
tblVehicleTrips	WD_TR	11.42	2.93
tblVehicleTrips	WD_TR	1.68	1.44

tblVehicleTrips	WD_TR	1.68	1.66
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	58,273,563.95	15,636,600.00
tblWater	IndoorWaterUseRate	46,250,000.00	4,004,659.00
tblWater	IndoorWaterUseRate	318,465,937.50	27,575,141.00
tblWater	OutdoorWaterUseRate	35,716,055.33	11,631,893.00
tblWater	OutdoorWaterUseRate	0.00	2,554,400.00
tblWater	OutdoorWaterUseRate	0.00	17,589,001.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

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	43.1176	1.8200e-003	0.1992	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4263	0.4263	1.1200e-003		0.4545
Energy	0.4168	3.7886	3.1824	0.0227		0.2879	0.2879		0.2879	0.2879		4,546.3377	4,546.3377	0.0871	0.0834	4,573.3543
Mobile	11.9823	12.0586	158.9522	0.4197	44.3796	0.2386	44.6182	11.7760	0.2205	11.9964		42,454.1415	42,454.1415	1.2024		42,484.2024
Offroad	35.9621	333.9543	365.2472	0.4838		22.1222	22.1222		20.3525	20.3525		46,862.8602	46,862.8602	15.1564		47,241.7701
Total	**91.4787**	**349.8033**	**527.5810**	**0.9262**	**44.3796**	**22.6494**	**67.0291**	**11.7760**	**20.8615**	**32.6375**		**93,863.7657**	**93,863.7657**	**16.4471**	**0.0834**	**94,299.7813**

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	43.1176	1.8200e-003	0.1992	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4263	0.4263	1.1200e-003		0.4545
Energy	0.3781	3.4372	2.8872	0.0206		0.2612	0.2612		0.2612	0.2612		4,124.5780	4,124.5780	0.0791	0.0756	4,149.0883
Mobile	11.9823	12.0586	158.9522	0.4197	44.3796	0.2386	44.6182	11.7760	0.2205	11.9964		42,454.1415	42,454.1415	1.2024		42,484.2024
Offroad	35.9621	333.9543	365.2472	0.4838		22.1222	22.1222		20.3525	20.3525		46,862.8602	46,862.8602	15.1564		47,241.7701
Total	**91.4400**	**349.4519**	**527.2858**	**0.9241**	**44.3796**	**22.6227**	**67.0024**	**11.7760**	**20.8348**	**32.6108**		**93,442.0060**	**93,442.0060**	**16.4390**	**0.0756**	**93,875.5153**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.04**	**0.10**	**0.06**	**0.23**	**0.00**	**0.12**	**0.04**	**0.00**	**0.13**	**0.08**	**0.00**	**0.45**	**0.45**	**0.05**	**9.27**	**0.45**

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	11.9823	12.0586	158.9522	0.4197	44.3796	0.2386	44.6182	11.7760	0.2205	11.9964		42,454.1415	42,454.1415	1.2024		42,484.2024
Unmitigated	11.9823	12.0586	158.9522	0.4197	44.3796	0.2386	44.6182	11.7760	0.2205	11.9964		42,454.1415	42,454.1415	1.2024		42,484.2024

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Office Park	960.66	960.66	960.66	5,769,719	5,769,719
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	288.00	288.00	288.00	1,729,728	1,729,728
Unrefrigerated Warehouse-No Rail	2,286.07	1,831.61	1804.07	12,926,646	12,926,646
Total	3,534.73	3,080.27	3,052.73	20,426,093	20,426,093

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Office Park	16.50	8.40	6.90	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	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
Refrigerated Warehouse-No Rail	16.50	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No Rail	16.50	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.609014	0.040088	0.198507	0.128093	0.017799	0.000000	0.000000	0.000000	0.000000	0.000000	0.006500	0.000000	0.000000
Other Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Refrigerated Warehouse-No Rail	0.609014	0.040088	0.198507	0.128093	0.017799	0.000000	0.000000	0.000000	0.000000	0.000000	0.006500	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.609014	0.040088	0.198507	0.128093	0.017799	0.000000	0.000000	0.000000	0.000000	0.000000	0.006500	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3781	3.4372	2.8872	0.0206		0.2612	0.2612		0.2612	0.2612		4,124.5780	4,124.5780	0.0791	0.0756	4,149.0883
NaturalGas Unmitigated	0.4168	3.7886	3.1824	0.0227		0.2879	0.2879		0.2879	0.2879		4,546.3377	4,546.3377	0.0871	0.0834	4,573.3543

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					
Office Park	2622.99	0.0283	0.2572	0.2160	1.5400e-003		0.0195	0.0195		0.0195	0.0195		308.5873	308.5873	5.9100e-003	5.6600e-003	310.4211
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Refrigerated Warehouse-No Rail	28361.6	0.3059	2.7806	2.3357	0.0167		0.2113	0.2113		0.2113	0.2113		3,336.6640	3,336.6640	0.0640	0.0612	3,356.4921
Unrefrigerated Warehouse-No Rail	7659.23	0.0826	0.7509	0.6308	4.5100e-003		0.0571	0.0571		0.0571	0.0571		901.0864	901.0864	0.0173	0.0165	906.4411
Total		**0.4168**	**3.7886**	**3.1824**	**0.0227**		**0.2879**	**0.2879**		**0.2879**	**0.2879**		**4,546.3377**	**4,546.3377**	**0.0871**	**0.0834**	**4,573.3543**

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					
Office Park	1.83609	0.0198	0.1800	0.1512	1.0800e-003		0.0137	0.0137		0.0137	0.0137		216.0111	216.0111	4.1400e-003	3.9600e-003	217.2948
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Refrigerated Warehouse-No Rail	27.8274	0.3001	2.7282	2.2917	0.0164		0.2073	0.2073		0.2073	0.2073		3,273.8114	3,273.8114	0.0628	0.0600	3,293.2661
Unrefrigerated Warehouse-No Rail	5.39542	0.0582	0.5290	0.4443	3.1700e-003		0.0402	0.0402		0.0402	0.0402		634.7555	634.7555	0.0122	0.0116	638.5275
Total		**0.3781**	**3.4372**	**2.8872**	**0.0206**		**0.2612**	**0.2612**		**0.2612**	**0.2612**		**4,124.5780**	**4,124.5780**	**0.0791**	**0.0756**	**4,149.0883**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	43.1176	1.8200e-003	0.1992	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4263	0.4263	1.1200e-003		0.4545
Unmitigated	43.1176	1.8200e-003	0.1992	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4263	0.4263	1.1200e-003		0.4545

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	4.8652					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	38.2338					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0185	1.8200e-003	0.1992	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4263	0.4263	1.1200e-003		0.4545
Total	**43.1176**	**1.8200e-003**	**0.1992**	**1.0000e-005**		**7.1000e-004**	**7.1000e-004**		**7.1000e-004**	**7.1000e-004**		**0.4263**	**0.4263**	**1.1200e-003**		**0.4545**

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	4.8652					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	38.2338					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0185	1.8200e-003	0.1992	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4263	0.4263	1.1200e-003		0.4545
Total	**43.1176**	**1.8200e-003**	**0.1992**	**1.0000e-005**		**7.1000e-004**	**7.1000e-004**		**7.1000e-004**	**7.1000e-004**		**0.4263**	**0.4263**	**1.1200e-003**		**0.4545**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	126	20.00	365	89	0.20	Diesel

UnMitigated/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
Equipment Type	lb/day										lb/day					
Forklifts	35.9621	333.9543	365.2472	0.4838		22.1222	22.1222		20.3525	20.3525		46,862.8602	46,862.8602	15.1564		47,241.7701
Total	**35.9621**	**333.9543**	**365.2472**	**0.4838**		**22.1222**	**22.1222**		**20.3525**	**20.3525**		**46,862.8602**	**46,862.8602**	**15.1564**		**47,241.7701**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Operation_Main

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	327.87	1000sqft	13.99	327,874.00	0
Refrigerated Warehouse-No Rail	200.00	1000sqft	13.99	200,000.00	0
Unrefrigerated Warehouse-No Rail	1,377.15	1000sqft	13.99	1,377,153.00	0
Other Asphalt Surfaces	25.21	Acre	25.21	1,098,198.00	0
Other Non-Asphalt Surfaces	9.71	Acre	9.71	0.00	0
Parking Lot	8.12	Acre	8.12	353,766.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	504.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See assumptions file in the AQ/GHG Appendix of the DEIR.

Land Use - See assumptions file in the AQ/GHG appendix of the DEIR.

Construction Phase -

Off-road Equipment -

Vehicle Trips - Based on information provided by Urban Crossroads. See assumptions file in the AQ/GHG appendix of the DEIR for details.

Area Coating - See assumptions file in the AQ/GHG appendix of the DEIR for details.

Water And Wastewater - See assumptions file in the AQ/GHG appendix of the DEIR for details.

Solid Waste - See assumptions file in the AQ/GHG appendix of the DEIR for further details.

Construction Off-road Equipment Mitigation - Assumes forklifts use for warehousing operations would be indoors and CNG-powered.

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - Anticipated based on building specs and operations.

Off-road Equipment - .

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	952512	952514
tblAreaCoating	Area_Nonresidential_Interior	2857536	2857541
tblAreaCoating	Area_Parking	87118	21226
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	LDA	0.55	0.61
tblFleetMix	LDA	0.55	0.61
tblFleetMix	LDA	0.55	0.61
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.18	0.20

tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	5.1010e-003	0.00
tblFleetMix	LHD2	5.1010e-003	0.00
tblFleetMix	LHD2	5.1010e-003	0.00
tblFleetMix	MCY	5.9030e-003	6.5000e-003
tblFleetMix	MCY	5.9030e-003	6.5000e-003
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tblFleetMix	OBUS	1.3570e-003	0.00
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tblFleetMix	SBUS	8.0800e-004	0.00
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tblFleetMix	UBUS	1.5650e-003	0.00

tblFleetMix	UBUS	1.5650e-003	0.00
tblFleetMix	UBUS	1.5650e-003	0.00
tblLandUse	LandUseSquareFeet	327,870.00	327,874.00
tblLandUse	LandUseSquareFeet	1,377,150.00	1,377,153.00
tblLandUse	LandUseSquareFeet	1,098,147.60	1,098,198.00
tblLandUse	LandUseSquareFeet	422,967.60	0.00
tblLandUse	LandUseSquareFeet	353,707.20	353,766.00
tblLandUse	LotAcreage	7.53	13.99
tblLandUse	LotAcreage	4.59	13.99
tblLandUse	LotAcreage	31.62	13.99
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	20.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.20	0.20
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	126.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	504.44
tblSolidWaste	SolidWasteGenerationRate	304.92	359.02
tblSolidWaste	SolidWasteGenerationRate	188.00	518.30
tblSolidWaste	SolidWasteGenerationRate	1,294.52	3,568.89
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tblVehicleEF	LDA	0.12	0.11
tblVehicleEF	LDA	0.07	0.09
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tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	4.0860e-003	2.4590e-003
tblVehicleEF	LDA	5.5870e-003	0.05

tblVehicleEF	LDA	0.54	0.64
tblVehicleEF	LDA	1.18	2.11
tblVehicleEF	LDA	245.70	259.38
tblVehicleEF	LDA	57.15	53.78
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.08	0.18
tblVehicleEF	LDA	1.6780e-003	1.5180e-003
tblVehicleEF	LDA	2.2790e-003	1.8540e-003
tblVehicleEF	LDA	1.5460e-003	1.3980e-003
tblVehicleEF	LDA	2.0960e-003	1.7050e-003
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	9.3400e-003
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.22
tblVehicleEF	LDA	2.4600e-003	2.5660e-003
tblVehicleEF	LDA	5.9100e-004	5.3200e-004
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.24
tblVehicleEF	LDT1	0.01	7.5760e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.54	1.52

tblVehicleEF	LDT1	3.61	2.38
tblVehicleEF	LDT1	313.68	312.60
tblVehicleEF	LDT1	70.93	65.27
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	0.22	0.30
tblVehicleEF	LDT1	2.7050e-003	2.3390e-003
tblVehicleEF	LDT1	3.6920e-003	2.8340e-003
tblVehicleEF	LDT1	2.4910e-003	2.1530e-003
tblVehicleEF	LDT1	3.3960e-003	2.6050e-003
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.20	0.86
tblVehicleEF	LDT1	0.26	0.42
tblVehicleEF	LDT1	3.1570e-003	3.0930e-003
tblVehicleEF	LDT1	7.7300e-004	6.4600e-004
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.86
tblVehicleEF	LDT1	0.28	0.47
tblVehicleEF	LDT1	0.02	8.4640e-003
tblVehicleEF	LDT1	0.02	0.07
tblVehicleEF	LDT1	1.85	1.80
tblVehicleEF	LDT1	2.97	2.00

tblVehicleEF	LDT1	341.75	335.30
tblVehicleEF	LDT1	70.93	64.45
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.20	0.28
tblVehicleEF	LDT1	2.7050e-003	2.3390e-003
tblVehicleEF	LDT1	3.6920e-003	2.8340e-003
tblVehicleEF	LDT1	2.4910e-003	2.1530e-003
tblVehicleEF	LDT1	3.3960e-003	2.6050e-003
tblVehicleEF	LDT1	0.37	0.36
tblVehicleEF	LDT1	0.41	0.31
tblVehicleEF	LDT1	0.27	0.26
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.20	0.85
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	3.4420e-003	3.3180e-003
tblVehicleEF	LDT1	7.6200e-004	6.3800e-004
tblVehicleEF	LDT1	0.37	0.36
tblVehicleEF	LDT1	0.41	0.31
tblVehicleEF	LDT1	0.27	0.26
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.85
tblVehicleEF	LDT1	0.23	0.40
tblVehicleEF	LDT1	0.01	7.4310e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.47	1.46
tblVehicleEF	LDT1	3.55	2.39
tblVehicleEF	LDT1	307.06	308.38

tblVehicleEF	LDT1	70.93	65.29
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	0.21	0.29
tblVehicleEF	LDT1	2.7050e-003	2.3390e-003
tblVehicleEF	LDT1	3.6920e-003	2.8340e-003
tblVehicleEF	LDT1	2.4910e-003	2.1530e-003
tblVehicleEF	LDT1	3.3960e-003	2.6050e-003
tblVehicleEF	LDT1	0.19	0.19
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.00
tblVehicleEF	LDT1	0.25	0.43
tblVehicleEF	LDT1	3.0890e-003	3.0520e-003
tblVehicleEF	LDT1	7.7200e-004	6.4600e-004
tblVehicleEF	LDT1	0.19	0.19
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.23	1.00
tblVehicleEF	LDT1	0.28	0.47
tblVehicleEF	LDT2	6.3270e-003	4.4090e-003
tblVehicleEF	LDT2	8.1990e-003	0.07
tblVehicleEF	LDT2	0.80	1.00
tblVehicleEF	LDT2	1.67	2.71
tblVehicleEF	LDT2	351.15	333.43
tblVehicleEF	LDT2	79.39	69.80

tblVehicleEF	LDT2	0.09	0.09
tblVehicleEF	LDT2	0.14	0.30
tblVehicleEF	LDT2	1.7270e-003	1.5990e-003
tblVehicleEF	LDT2	2.4170e-003	1.9200e-003
tblVehicleEF	LDT2	1.5880e-003	1.4710e-003
tblVehicleEF	LDT2	2.2220e-003	1.7660e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.11	0.33
tblVehicleEF	LDT2	3.5180e-003	3.2990e-003
tblVehicleEF	LDT2	8.2200e-004	6.9100e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.12	0.36
tblVehicleEF	LDT2	7.1840e-003	4.9540e-003
tblVehicleEF	LDT2	6.8290e-003	0.06
tblVehicleEF	LDT2	0.97	1.19
tblVehicleEF	LDT2	1.38	2.27
tblVehicleEF	LDT2	383.36	355.41
tblVehicleEF	LDT2	79.39	68.95
tblVehicleEF	LDT2	0.08	0.08

tblVehicleEF	LDT2	0.13	0.28
tblVehicleEF	LDT2	1.7270e-003	1.5990e-003
tblVehicleEF	LDT2	2.4170e-003	1.9200e-003
tblVehicleEF	LDT2	1.5880e-003	1.4710e-003
tblVehicleEF	LDT2	2.2220e-003	1.7660e-003
tblVehicleEF	LDT2	0.13	0.18
tblVehicleEF	LDT2	0.15	0.16
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.8420e-003	3.5160e-003
tblVehicleEF	LDT2	8.1700e-004	6.8200e-004
tblVehicleEF	LDT2	0.13	0.18
tblVehicleEF	LDT2	0.15	0.16
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	6.1560e-003	4.3220e-003
tblVehicleEF	LDT2	8.1410e-003	0.07
tblVehicleEF	LDT2	0.75	0.96
tblVehicleEF	LDT2	1.64	2.72
tblVehicleEF	LDT2	343.55	329.34
tblVehicleEF	LDT2	79.39	69.82
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.14	0.30

tblVehicleEF	LDT2	1.7270e-003	1.5990e-003
tblVehicleEF	LDT2	2.4170e-003	1.9200e-003
tblVehicleEF	LDT2	1.5880e-003	1.4710e-003
tblVehicleEF	LDT2	2.2220e-003	1.7660e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.52
tblVehicleEF	LDT2	0.11	0.33
tblVehicleEF	LDT2	3.4410e-003	3.2580e-003
tblVehicleEF	LDT2	8.2200e-004	6.9100e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.52
tblVehicleEF	LDT2	0.12	0.37
tblVehicleEF	LHD1	5.2170e-003	5.0850e-003
tblVehicleEF	LHD1	0.01	6.1020e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.07	0.75
tblVehicleEF	LHD1	2.60	1.03
tblVehicleEF	LHD1	9.23	9.25
tblVehicleEF	LHD1	609.20	652.45
tblVehicleEF	LHD1	30.40	11.21

tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	2.12	1.25
tblVehicleEF	LHD1	0.99	0.32
tblVehicleEF	LHD1	9.6500e-004	8.9000e-004
tblVehicleEF	LHD1	0.01	9.8770e-003
tblVehicleEF	LHD1	0.01	9.8260e-003
tblVehicleEF	LHD1	9.5800e-004	2.6000e-004
tblVehicleEF	LHD1	9.2400e-004	8.5100e-004
tblVehicleEF	LHD1	2.5390e-003	2.4690e-003
tblVehicleEF	LHD1	0.01	9.3750e-003
tblVehicleEF	LHD1	8.8100e-004	2.3900e-004
tblVehicleEF	LHD1	3.7070e-003	3.0390e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8240e-003	1.5810e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.55
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3570e-003
tblVehicleEF	LHD1	3.5300e-004	1.1100e-004
tblVehicleEF	LHD1	3.7070e-003	3.0390e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8240e-003	1.5810e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.35	0.55

tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.2170e-003	5.0990e-003
tblVehicleEF	LHD1	0.01	6.2280e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.09	0.76
tblVehicleEF	LHD1	2.43	0.98
tblVehicleEF	LHD1	9.23	9.25
tblVehicleEF	LHD1	609.20	652.47
tblVehicleEF	LHD1	30.40	11.12
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.98	1.17
tblVehicleEF	LHD1	0.94	0.31
tblVehicleEF	LHD1	9.6500e-004	8.9000e-004
tblVehicleEF	LHD1	0.01	9.8770e-003
tblVehicleEF	LHD1	0.01	9.8260e-003
tblVehicleEF	LHD1	9.5800e-004	2.6000e-004
tblVehicleEF	LHD1	9.2400e-004	8.5100e-004
tblVehicleEF	LHD1	2.5390e-003	2.4690e-003
tblVehicleEF	LHD1	0.01	9.3750e-003
tblVehicleEF	LHD1	8.8100e-004	2.3900e-004
tblVehicleEF	LHD1	7.3080e-003	5.4780e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.1220e-003	3.0450e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.36	0.56

tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9770e-003	6.3570e-003
tblVehicleEF	LHD1	3.5000e-004	1.1000e-004
tblVehicleEF	LHD1	7.3080e-003	5.4780e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.1220e-003	3.0450e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.36	0.56
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.2170e-003	5.0870e-003
tblVehicleEF	LHD1	0.01	6.1100e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.07	0.75
tblVehicleEF	LHD1	2.55	1.02
tblVehicleEF	LHD1	9.23	9.25
tblVehicleEF	LHD1	609.20	652.45
tblVehicleEF	LHD1	30.40	11.20
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	2.08	1.23
tblVehicleEF	LHD1	0.97	0.31
tblVehicleEF	LHD1	9.6500e-004	8.9000e-004
tblVehicleEF	LHD1	0.01	9.8770e-003
tblVehicleEF	LHD1	0.01	9.8260e-003
tblVehicleEF	LHD1	9.5800e-004	2.6000e-004

tblVehicleEF	LHD1	9.2400e-004	8.5100e-004
tblVehicleEF	LHD1	2.5390e-003	2.4690e-003
tblVehicleEF	LHD1	0.01	9.3750e-003
tblVehicleEF	LHD1	8.8100e-004	2.3900e-004
tblVehicleEF	LHD1	4.0430e-003	3.1520e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7940e-003	1.6100e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.60
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3570e-003
tblVehicleEF	LHD1	3.5200e-004	1.1100e-004
tblVehicleEF	LHD1	4.0430e-003	3.1520e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7940e-003	1.6100e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.38	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	3.5950e-003	3.6950e-003
tblVehicleEF	LHD2	4.6110e-003	4.1040e-003
tblVehicleEF	LHD2	8.1370e-003	0.01
tblVehicleEF	LHD2	0.12	0.15
tblVehicleEF	LHD2	0.50	0.50
tblVehicleEF	LHD2	1.20	0.67

tblVehicleEF	LHD2	14.27	14.14
tblVehicleEF	LHD2	608.52	665.25
tblVehicleEF	LHD2	24.46	8.76
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.49	1.36
tblVehicleEF	LHD2	0.53	0.22
tblVehicleEF	LHD2	1.2830e-003	1.3100e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.3700e-004
tblVehicleEF	LHD2	1.2280e-003	1.2540e-003
tblVehicleEF	LHD2	2.6860e-003	2.6560e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.2600e-004
tblVehicleEF	LHD2	1.3070e-003	1.7040e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.0300e-004	9.2000e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.9200e-003	6.4300e-003
tblVehicleEF	LHD2	2.6700e-004	8.7000e-005
tblVehicleEF	LHD2	1.3070e-003	1.7040e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	7.0300e-004	9.2000e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	3.5950e-003	3.7050e-003
tblVehicleEF	LHD2	4.6760e-003	4.1460e-003
tblVehicleEF	LHD2	7.7630e-003	0.01
tblVehicleEF	LHD2	0.12	0.15
tblVehicleEF	LHD2	0.50	0.50
tblVehicleEF	LHD2	1.13	0.64
tblVehicleEF	LHD2	14.27	14.14
tblVehicleEF	LHD2	608.52	665.25
tblVehicleEF	LHD2	24.46	8.70
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.40	1.28
tblVehicleEF	LHD2	0.50	0.21
tblVehicleEF	LHD2	1.2830e-003	1.3100e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.3700e-004
tblVehicleEF	LHD2	1.2280e-003	1.2540e-003
tblVehicleEF	LHD2	2.6860e-003	2.6560e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.2600e-004
tblVehicleEF	LHD2	2.5220e-003	3.0730e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	1.5220e-003	1.7630e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.9200e-003	6.4300e-003
tblVehicleEF	LHD2	2.6500e-004	8.6000e-005
tblVehicleEF	LHD2	2.5220e-003	3.0730e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7630e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.5950e-003	3.6960e-003
tblVehicleEF	LHD2	4.6180e-003	4.1080e-003
tblVehicleEF	LHD2	8.0640e-003	0.01
tblVehicleEF	LHD2	0.12	0.15
tblVehicleEF	LHD2	0.50	0.50
tblVehicleEF	LHD2	1.19	0.67
tblVehicleEF	LHD2	14.27	14.14
tblVehicleEF	LHD2	608.52	665.25
tblVehicleEF	LHD2	24.46	8.75
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.46	1.33
tblVehicleEF	LHD2	0.52	0.22
tblVehicleEF	LHD2	1.2830e-003	1.3100e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.3700e-004
tblVehicleEF	LHD2	1.2280e-003	1.2540e-003
tblVehicleEF	LHD2	2.6860e-003	2.6560e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.2600e-004
tblVehicleEF	LHD2	1.3460e-003	1.7140e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.8700e-004	9.2200e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.10	0.34
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.9200e-003	6.4300e-003
tblVehicleEF	LHD2	2.6600e-004	8.7000e-005
tblVehicleEF	LHD2	1.3460e-003	1.7140e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.8700e-004	9.2200e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.10	0.34
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	20.55	19.26

tblVehicleEF	MCY	9.93	8.60
tblVehicleEF	MCY	167.73	212.03
tblVehicleEF	MCY	46.45	60.73
tblVehicleEF	MCY	1.16	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8610e-003	1.9650e-003
tblVehicleEF	MCY	3.6730e-003	2.9600e-003
tblVehicleEF	MCY	1.7420e-003	1.8380e-003
tblVehicleEF	MCY	3.4650e-003	2.7870e-003
tblVehicleEF	MCY	1.45	1.42
tblVehicleEF	MCY	0.84	0.80
tblVehicleEF	MCY	0.80	0.78
tblVehicleEF	MCY	2.23	2.33
tblVehicleEF	MCY	0.49	1.91
tblVehicleEF	MCY	2.16	1.84
tblVehicleEF	MCY	2.0770e-003	2.0980e-003
tblVehicleEF	MCY	6.9000e-004	6.0100e-004
tblVehicleEF	MCY	1.45	1.42
tblVehicleEF	MCY	0.84	0.80
tblVehicleEF	MCY	0.80	0.78
tblVehicleEF	MCY	2.74	2.87
tblVehicleEF	MCY	0.49	1.91
tblVehicleEF	MCY	2.35	2.01
tblVehicleEF	MCY	0.42	0.34
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	20.68	19.28
tblVehicleEF	MCY	9.05	7.90

tblVehicleEF	MCY	167.73	211.90
tblVehicleEF	MCY	46.45	58.88
tblVehicleEF	MCY	0.99	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8610e-003	1.9650e-003
tblVehicleEF	MCY	3.6730e-003	2.9600e-003
tblVehicleEF	MCY	1.7420e-003	1.8380e-003
tblVehicleEF	MCY	3.4650e-003	2.7870e-003
tblVehicleEF	MCY	3.14	2.77
tblVehicleEF	MCY	1.27	1.11
tblVehicleEF	MCY	2.13	1.77
tblVehicleEF	MCY	2.17	2.28
tblVehicleEF	MCY	0.49	1.88
tblVehicleEF	MCY	1.86	1.62
tblVehicleEF	MCY	2.0770e-003	2.0970e-003
tblVehicleEF	MCY	6.6700e-004	5.8300e-004
tblVehicleEF	MCY	3.14	2.77
tblVehicleEF	MCY	1.27	1.11
tblVehicleEF	MCY	2.13	1.77
tblVehicleEF	MCY	2.67	2.81
tblVehicleEF	MCY	0.49	1.88
tblVehicleEF	MCY	2.02	1.76
tblVehicleEF	MCY	0.42	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.63	18.76
tblVehicleEF	MCY	9.55	8.44
tblVehicleEF	MCY	167.73	211.17

tblVehicleEF	MCY	46.45	60.38
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8610e-003	1.9650e-003
tblVehicleEF	MCY	3.6730e-003	2.9600e-003
tblVehicleEF	MCY	1.7420e-003	1.8380e-003
tblVehicleEF	MCY	3.4650e-003	2.7870e-003
tblVehicleEF	MCY	1.71	1.57
tblVehicleEF	MCY	1.13	1.06
tblVehicleEF	MCY	0.72	0.74
tblVehicleEF	MCY	2.19	2.31
tblVehicleEF	MCY	0.56	2.18
tblVehicleEF	MCY	2.08	1.81
tblVehicleEF	MCY	2.0610e-003	2.0900e-003
tblVehicleEF	MCY	6.8200e-004	5.9800e-004
tblVehicleEF	MCY	1.71	1.57
tblVehicleEF	MCY	1.13	1.06
tblVehicleEF	MCY	0.72	0.74
tblVehicleEF	MCY	2.69	2.84
tblVehicleEF	MCY	0.56	2.18
tblVehicleEF	MCY	2.27	1.98
tblVehicleEF	MDV	0.01	5.5200e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.35	1.13
tblVehicleEF	MDV	3.25	3.24
tblVehicleEF	MDV	483.94	412.47
tblVehicleEF	MDV	107.92	86.76

tblVehicleEF	MDV	0.17	0.11
tblVehicleEF	MDV	0.32	0.38
tblVehicleEF	MDV	1.8260e-003	1.6820e-003
tblVehicleEF	MDV	2.5170e-003	2.0280e-003
tblVehicleEF	MDV	1.6830e-003	1.5510e-003
tblVehicleEF	MDV	2.3150e-003	1.8650e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MDV	4.8500e-003	4.0780e-003
tblVehicleEF	MDV	1.1370e-003	8.5900e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.28	0.48
tblVehicleEF	MDV	0.01	6.2110e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.64	1.35
tblVehicleEF	MDV	2.69	2.71
tblVehicleEF	MDV	526.85	435.67
tblVehicleEF	MDV	107.92	85.71
tblVehicleEF	MDV	0.16	0.10

tblVehicleEF	MDV	0.30	0.35
tblVehicleEF	MDV	1.8260e-003	1.6820e-003
tblVehicleEF	MDV	2.5170e-003	2.0280e-003
tblVehicleEF	MDV	1.6830e-003	1.5510e-003
tblVehicleEF	MDV	2.3150e-003	1.8650e-003
tblVehicleEF	MDV	0.20	0.21
tblVehicleEF	MDV	0.23	0.19
tblVehicleEF	MDV	0.17	0.19
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.49
tblVehicleEF	MDV	0.21	0.38
tblVehicleEF	MDV	5.2830e-003	4.3080e-003
tblVehicleEF	MDV	1.1260e-003	8.4800e-004
tblVehicleEF	MDV	0.20	0.21
tblVehicleEF	MDV	0.23	0.19
tblVehicleEF	MDV	0.17	0.19
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.49
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	0.01	5.4050e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.28	1.09
tblVehicleEF	MDV	3.20	3.25
tblVehicleEF	MDV	473.93	408.15
tblVehicleEF	MDV	107.92	86.78
tblVehicleEF	MDV	0.16	0.10
tblVehicleEF	MDV	0.32	0.38

tblVehicleEF	MDV	1.8260e-003	1.6820e-003
tblVehicleEF	MDV	2.5170e-003	2.0280e-003
tblVehicleEF	MDV	1.6830e-003	1.5510e-003
tblVehicleEF	MDV	2.3150e-003	1.8650e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.57
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MDV	4.7490e-003	4.0360e-003
tblVehicleEF	MDV	1.1360e-003	8.5900e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.57
tblVehicleEF	MDV	0.27	0.48
tblVehicleEF	MH	0.04	3.6580e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.07	0.35
tblVehicleEF	MH	6.43	0.00
tblVehicleEF	MH	1,045.05	970.21
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.54	4.24
tblVehicleEF	MH	0.91	0.00
tblVehicleEF	MH	0.01	0.02

tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.0790e-003	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	9.1720e-003
tblVehicleEF	MH	7.0700e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.14	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.04	3.6580e-003
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tblVehicleEF	MH	3.19	0.35
tblVehicleEF	MH	5.84	0.00
tblVehicleEF	MH	1,045.05	970.21
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.41	4.00
tblVehicleEF	MH	0.86	0.00

tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.0790e-003	0.00
tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.01	9.1720e-003
tblVehicleEF	MH	6.9700e-004	0.00
tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.04	3.6580e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.08	0.35
tblVehicleEF	MH	6.36	0.00
tblVehicleEF	MH	1,045.05	970.21
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.51	4.17

tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.0790e-003	0.00
tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	9.1720e-003
tblVehicleEF	MH	7.0600e-004	0.00
tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MHD	0.02	2.5070e-003
tblVehicleEF	MHD	3.5160e-003	3.3210e-003
tblVehicleEF	MHD	0.05	6.4670e-003
tblVehicleEF	MHD	0.32	0.31
tblVehicleEF	MHD	0.27	0.32
tblVehicleEF	MHD	5.32	0.74

tblVehicleEF	MHD	156.91	68.92
tblVehicleEF	MHD	1,101.52	974.57
tblVehicleEF	MHD	52.43	6.35
tblVehicleEF	MHD	0.60	0.52
tblVehicleEF	MHD	0.99	1.61
tblVehicleEF	MHD	11.88	1.50
tblVehicleEF	MHD	3.8600e-004	1.2310e-003
tblVehicleEF	MHD	5.0030e-003	0.04
tblVehicleEF	MHD	7.6400e-004	7.5000e-005
tblVehicleEF	MHD	3.6900e-004	1.1780e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	6.9000e-005
tblVehicleEF	MHD	1.2800e-003	4.5300e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.5100e-004	2.4000e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.03
tblVehicleEF	MHD	1.5080e-003	6.5300e-004
tblVehicleEF	MHD	0.01	9.2620e-003
tblVehicleEF	MHD	6.1700e-004	6.3000e-005
tblVehicleEF	MHD	1.2800e-003	4.5300e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.5100e-004	2.4000e-004
tblVehicleEF	MHD	0.04	0.07

tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	MHD	0.02	2.3860e-003
tblVehicleEF	MHD	3.5800e-003	3.3450e-003
tblVehicleEF	MHD	0.05	6.2100e-003
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tblVehicleEF	MHD	166.20	69.59
tblVehicleEF	MHD	1,101.52	974.58
tblVehicleEF	MHD	52.43	6.28
tblVehicleEF	MHD	0.62	0.52
tblVehicleEF	MHD	0.92	1.52
tblVehicleEF	MHD	11.85	1.49
tblVehicleEF	MHD	3.2500e-004	1.0410e-003
tblVehicleEF	MHD	5.0030e-003	0.04
tblVehicleEF	MHD	7.6400e-004	7.5000e-005
tblVehicleEF	MHD	3.1100e-004	9.9600e-004
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	6.9000e-005
tblVehicleEF	MHD	2.5300e-003	8.2800e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5010e-003	4.7800e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.30	0.03

tblVehicleEF	MHD	1.5950e-003	6.5900e-004
tblVehicleEF	MHD	0.01	9.2620e-003
tblVehicleEF	MHD	6.1100e-004	6.2000e-005
tblVehicleEF	MHD	2.5300e-003	8.2800e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5010e-003	4.7800e-004
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	0.02	2.6830e-003
tblVehicleEF	MHD	3.5220e-003	3.3210e-003
tblVehicleEF	MHD	0.05	6.4200e-003
tblVehicleEF	MHD	0.45	0.37
tblVehicleEF	MHD	0.27	0.32
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tblVehicleEF	MHD	144.06	68.00
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tblVehicleEF	MHD	52.43	6.34
tblVehicleEF	MHD	0.57	0.52
tblVehicleEF	MHD	0.97	1.59
tblVehicleEF	MHD	11.87	1.50
tblVehicleEF	MHD	4.7000e-004	1.4940e-003
tblVehicleEF	MHD	5.0030e-003	0.04
tblVehicleEF	MHD	7.6400e-004	7.5000e-005
tblVehicleEF	MHD	4.4900e-004	1.4300e-003
tblVehicleEF	MHD	4.7830e-003	0.03

tblVehicleEF	MHD	7.0300e-004	6.9000e-005
tblVehicleEF	MHD	1.3890e-003	4.7100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.4000e-004	2.4400e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.32	0.03
tblVehicleEF	MHD	1.3860e-003	6.4400e-004
tblVehicleEF	MHD	0.01	9.2620e-003
tblVehicleEF	MHD	6.1600e-004	6.3000e-005
tblVehicleEF	MHD	1.3890e-003	4.7100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.4000e-004	2.4400e-004
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	OBUS	0.01	8.8190e-003
tblVehicleEF	OBUS	9.9110e-003	6.5960e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.52
tblVehicleEF	OBUS	0.63	0.77
tblVehicleEF	OBUS	6.27	2.45
tblVehicleEF	OBUS	70.35	76.06
tblVehicleEF	OBUS	1,121.50	1,406.90
tblVehicleEF	OBUS	70.70	20.49

tblVehicleEF	OBUS	0.28	0.34
tblVehicleEF	OBUS	0.97	1.24
tblVehicleEF	OBUS	1.93	0.68
tblVehicleEF	OBUS	6.4000e-005	5.8900e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.1800e-004
tblVehicleEF	OBUS	6.1000e-005	5.6400e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.0100e-004
tblVehicleEF	OBUS	2.1800e-003	2.6020e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.3100e-004	1.1160e-003
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	6.8400e-004	7.2500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1700e-004	2.0300e-004
tblVehicleEF	OBUS	2.1800e-003	2.6020e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.3100e-004	1.1160e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.42	0.13
tblVehicleEF	OBUS	0.01	8.8750e-003

tblVehicleEF	OBUS	0.01	6.7350e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.51
tblVehicleEF	OBUS	0.65	0.79
tblVehicleEF	OBUS	5.74	2.28
tblVehicleEF	OBUS	73.50	75.90
tblVehicleEF	OBUS	1,121.50	1,406.93
tblVehicleEF	OBUS	70.70	20.20
tblVehicleEF	OBUS	0.29	0.34
tblVehicleEF	OBUS	0.90	1.16
tblVehicleEF	OBUS	1.88	0.67
tblVehicleEF	OBUS	5.4000e-005	5.0100e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.1800e-004
tblVehicleEF	OBUS	5.1000e-005	4.7900e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.0100e-004
tblVehicleEF	OBUS	4.2350e-003	4.6860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.1330e-003	2.2090e-003
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.11
tblVehicleEF	OBUS	7.1400e-004	7.2400e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0800e-004	2.0000e-004

tblVehicleEF	OBUS	4.2350e-003	4.6860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	2.1330e-003	2.2090e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.40	0.12
tblVehicleEF	OBUS	0.01	8.7740e-003
tblVehicleEF	OBUS	9.9380e-003	6.6000e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.53
tblVehicleEF	OBUS	0.63	0.77
tblVehicleEF	OBUS	6.22	2.45
tblVehicleEF	OBUS	66.00	76.30
tblVehicleEF	OBUS	1,121.50	1,406.90
tblVehicleEF	OBUS	70.70	20.50
tblVehicleEF	OBUS	0.27	0.35
tblVehicleEF	OBUS	0.96	1.22
tblVehicleEF	OBUS	1.91	0.68
tblVehicleEF	OBUS	7.7000e-005	7.1200e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.1800e-004
tblVehicleEF	OBUS	7.4000e-005	6.8100e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.0100e-004
tblVehicleEF	OBUS	2.3200e-003	2.7390e-003
tblVehicleEF	OBUS	0.02	0.03

tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.4100e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.05	0.30
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	6.4200e-004	7.2700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1600e-004	2.0300e-004
tblVehicleEF	OBUS	2.3200e-003	2.7390e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.4100e-004	1.1650e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.30
tblVehicleEF	OBUS	0.42	0.13
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	0.01	8.5840e-003
tblVehicleEF	SBUS	0.07	6.1570e-003
tblVehicleEF	SBUS	5.71	2.50
tblVehicleEF	SBUS	0.65	0.78
tblVehicleEF	SBUS	5.33	0.82
tblVehicleEF	SBUS	1,258.13	345.06
tblVehicleEF	SBUS	1,136.31	1,112.17
tblVehicleEF	SBUS	37.11	4.79
tblVehicleEF	SBUS	11.70	3.29
tblVehicleEF	SBUS	4.77	5.20
tblVehicleEF	SBUS	15.02	0.91

tblVehicleEF	SBUS	0.01	4.3580e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	4.1690e-003
tblVehicleEF	SBUS	2.7560e-003	2.7010e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	3.6000e-005
tblVehicleEF	SBUS	2.9260e-003	1.2420e-003
tblVehicleEF	SBUS	0.02	9.5120e-003
tblVehicleEF	SBUS	0.68	0.28
tblVehicleEF	SBUS	1.3050e-003	5.9000e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	9.3510e-003	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.2890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6300e-004	4.7000e-005
tblVehicleEF	SBUS	2.9260e-003	1.2420e-003
tblVehicleEF	SBUS	0.02	9.5120e-003
tblVehicleEF	SBUS	0.97	0.40
tblVehicleEF	SBUS	1.3050e-003	5.9000e-004
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	9.3510e-003	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	0.01	8.7140e-003

tblVehicleEF	SBUS	0.06	5.1550e-003
tblVehicleEF	SBUS	5.56	2.47
tblVehicleEF	SBUS	0.66	0.80
tblVehicleEF	SBUS	3.65	0.60
tblVehicleEF	SBUS	1,322.00	352.98
tblVehicleEF	SBUS	1,136.31	1,112.20
tblVehicleEF	SBUS	37.11	4.41
tblVehicleEF	SBUS	12.08	3.36
tblVehicleEF	SBUS	4.47	4.88
tblVehicleEF	SBUS	14.99	0.90
tblVehicleEF	SBUS	0.01	3.6810e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	4.0000e-005
tblVehicleEF	SBUS	9.6490e-003	3.5220e-003
tblVehicleEF	SBUS	2.7560e-003	2.7010e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	3.6000e-005
tblVehicleEF	SBUS	5.6170e-003	2.2080e-003
tblVehicleEF	SBUS	0.02	9.9850e-003
tblVehicleEF	SBUS	0.67	0.28
tblVehicleEF	SBUS	2.8800e-003	1.1130e-003
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	8.5310e-003	0.06
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3630e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	4.3500e-004	4.4000e-005
tblVehicleEF	SBUS	5.6170e-003	2.2080e-003
tblVehicleEF	SBUS	0.02	9.9850e-003
tblVehicleEF	SBUS	0.97	0.40
tblVehicleEF	SBUS	2.8800e-003	1.1130e-003
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	8.5310e-003	0.06
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	0.01	8.5760e-003
tblVehicleEF	SBUS	0.07	6.3440e-003
tblVehicleEF	SBUS	5.91	2.56
tblVehicleEF	SBUS	0.65	0.78
tblVehicleEF	SBUS	5.37	0.86
tblVehicleEF	SBUS	1,169.92	334.13
tblVehicleEF	SBUS	1,136.31	1,112.17
tblVehicleEF	SBUS	37.11	4.85
tblVehicleEF	SBUS	11.19	3.19
tblVehicleEF	SBUS	4.69	5.12
tblVehicleEF	SBUS	15.02	0.91
tblVehicleEF	SBUS	0.01	5.2920e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	5.0630e-003
tblVehicleEF	SBUS	2.7560e-003	2.7010e-003
tblVehicleEF	SBUS	0.03	0.03

tblVehicleEF	SBUS	4.7500e-004	3.6000e-005
tblVehicleEF	SBUS	2.9580e-003	1.2070e-003
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.68	0.28
tblVehicleEF	SBUS	1.2820e-003	6.0100e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.08
tblVehicleEF	SBUS	0.28	0.04
tblVehicleEF	SBUS	0.01	3.1850e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6400e-004	4.8000e-005
tblVehicleEF	SBUS	2.9580e-003	1.2070e-003
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.98	0.40
tblVehicleEF	SBUS	1.2820e-003	6.0100e-004
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.01	0.08
tblVehicleEF	SBUS	0.31	0.04
tblVehicleEF	UBUS	1.83	4.45
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	9.26	34.75
tblVehicleEF	UBUS	14.34	0.89
tblVehicleEF	UBUS	1,846.39	1,692.13
tblVehicleEF	UBUS	136.37	11.77
tblVehicleEF	UBUS	5.87	0.38
tblVehicleEF	UBUS	13.57	0.14
tblVehicleEF	UBUS	0.52	0.07

tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6550e-003
tblVehicleEF	UBUS	1.4030e-003	1.4100e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5280e-003
tblVehicleEF	UBUS	1.2900e-003	1.3000e-004
tblVehicleEF	UBUS	8.0860e-003	1.6780e-003
tblVehicleEF	UBUS	0.11	9.5390e-003
tblVehicleEF	UBUS	3.9450e-003	7.3700e-004
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.15	0.04
tblVehicleEF	UBUS	0.01	3.0250e-003
tblVehicleEF	UBUS	1.6240e-003	1.1700e-004
tblVehicleEF	UBUS	8.0860e-003	1.6780e-003
tblVehicleEF	UBUS	0.11	9.5390e-003
tblVehicleEF	UBUS	3.9450e-003	7.3700e-004
tblVehicleEF	UBUS	2.50	4.54
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.25	0.04
tblVehicleEF	UBUS	1.83	4.45
tblVehicleEF	UBUS	0.08	9.2350e-003
tblVehicleEF	UBUS	9.36	34.75
tblVehicleEF	UBUS	11.74	0.76
tblVehicleEF	UBUS	1,846.39	1,692.13
tblVehicleEF	UBUS	136.37	11.55

tblVehicleEF	UBUS	5.45	0.38
tblVehicleEF	UBUS	13.45	0.13
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6550e-003
tblVehicleEF	UBUS	1.4030e-003	1.4100e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5280e-003
tblVehicleEF	UBUS	1.2900e-003	1.3000e-004
tblVehicleEF	UBUS	0.02	3.0610e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4840e-003
tblVehicleEF	UBUS	0.62	0.07
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.02	0.03
tblVehicleEF	UBUS	0.01	3.0250e-003
tblVehicleEF	UBUS	1.5790e-003	1.1400e-004
tblVehicleEF	UBUS	0.02	3.0610e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4840e-003
tblVehicleEF	UBUS	2.52	4.54
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.12	0.04
tblVehicleEF	UBUS	1.83	4.45
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	9.27	34.75

tblVehicleEF	UBUS	13.86	0.90
tblVehicleEF	UBUS	1,846.39	1,692.13
tblVehicleEF	UBUS	136.37	11.80
tblVehicleEF	UBUS	5.76	0.38
tblVehicleEF	UBUS	13.55	0.14
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6550e-003
tblVehicleEF	UBUS	1.4030e-003	1.4100e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5280e-003
tblVehicleEF	UBUS	1.2900e-003	1.3000e-004
tblVehicleEF	UBUS	9.2250e-003	1.6870e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	4.1190e-003	7.4500e-004
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.13	0.04
tblVehicleEF	UBUS	0.01	3.0250e-003
tblVehicleEF	UBUS	1.6160e-003	1.1700e-004
tblVehicleEF	UBUS	9.2250e-003	1.6870e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	4.1190e-003	7.4500e-004
tblVehicleEF	UBUS	2.50	4.54
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.24	0.04

tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	16.50
tblVehicleTrips	CW_TL	16.60	16.50
tblVehicleTrips	CW_TL	16.60	16.50
tblVehicleTrips	CW_TTP	33.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	15.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	82.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.64	2.93
tblVehicleTrips	ST_TR	1.68	1.44
tblVehicleTrips	ST_TR	1.68	1.33
tblVehicleTrips	SU_TR	0.76	2.93
tblVehicleTrips	SU_TR	1.68	1.44
tblVehicleTrips	SU_TR	1.68	1.31
tblVehicleTrips	WD_TR	11.42	2.93
tblVehicleTrips	WD_TR	1.68	1.44

tblVehicleTrips	WD_TR	1.68	1.66
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	58,273,563.95	15,636,600.00
tblWater	IndoorWaterUseRate	46,250,000.00	4,004,659.00
tblWater	IndoorWaterUseRate	318,465,937.50	27,575,141.00
tblWater	OutdoorWaterUseRate	35,716,055.33	11,631,893.00
tblWater	OutdoorWaterUseRate	0.00	2,554,400.00
tblWater	OutdoorWaterUseRate	0.00	17,589,001.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

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	43.1176	1.8200e-003	0.1992	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4263	0.4263	1.1200e-003		0.4545
Energy	0.4168	3.7886	3.1824	0.0227		0.2879	0.2879		0.2879	0.2879		4,546.337	4,546.3377	0.0871	0.0834	4,573.354
Mobile	11.3371	12.8066	136.6091	0.3873	44.3796	0.2386	44.6182	11.7760	0.2205	11.9964		39,175.49	39,175.492	1.2060		39,205.64
Offroad	35.9621	333.9543	365.2472	0.4838		22.1222	22.1222		20.3525	20.3525		46,862.8602	46,862.8602	15.1564		47,241.7701
Total	**90.8335**	**350.5514**	**505.2379**	**0.8938**	**44.3796**	**22.6494**	**67.0291**	**11.7760**	**20.8615**	**32.6375**		**90,585.11**	**90,585.116**	**16.4507**	**0.0834**	**91,021.22**

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	43.1176	1.8200e-003	0.1992	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4263	0.4263	1.1200e-003		0.4545
Energy	0.3781	3.4372	2.8872	0.0206		0.2612	0.2612		0.2612	0.2612		4,124.5780	4,124.5780	0.0791	0.0756	4,149.0883
Mobile	11.3371	12.8066	136.6091	0.3873	44.3796	0.2386	44.6182	11.7760	0.2205	11.9964		39,175.4924	39,175.4924	1.2060		39,205.6432
Offroad	35.9621	333.9543	365.2472	0.4838		22.1222	22.1222		20.3525	20.3525		46,862.8602	46,862.8602	15.1564		47,241.7701
Total	**90.7948**	**350.1999**	**504.9426**	**0.8917**	**44.3796**	**22.6227**	**67.0024**	**11.7760**	**20.8348**	**32.6108**		**90,163.3569**	**90,163.3569**	**16.4426**	**0.0756**	**90,596.9561**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.04**	**0.10**	**0.06**	**0.24**	**0.00**	**0.12**	**0.04**	**0.00**	**0.13**	**0.08**	**0.00**	**0.47**	**0.47**	**0.05**	**9.27**	**0.47**

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	11.3371	12.8066	136.6091	0.3873	44.3796	0.2386	44.6182	11.7760	0.2205	11.9964		39,175.49	39,175.492	1.2060		39,205.64
Unmitigated	11.3371	12.8066	136.6091	0.3873	44.3796	0.2386	44.6182	11.7760	0.2205	11.9964		39,175.4924	39,175.4924	1.2060		39,205.6432

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Office Park	960.66	960.66	960.66	5,769,719	5,769,719
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	288.00	288.00	288.00	1,729,728	1,729,728
Unrefrigerated Warehouse-No Rail	2,286.07	1,831.61	1804.07	12,926,646	12,926,646
Total	3,534.73	3,080.27	3,052.73	20,426,093	20,426,093

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Office Park	16.50	8.40	6.90	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	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
Refrigerated Warehouse-No Rail	16.50	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No Rail	16.50	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.609014	0.040088	0.198507	0.128093	0.017799	0.000000	0.000000	0.000000	0.000000	0.000000	0.006500	0.000000	0.000000
Other Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Refrigerated Warehouse-No Rail	0.609014	0.040088	0.198507	0.128093	0.017799	0.000000	0.000000	0.000000	0.000000	0.000000	0.006500	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.609014	0.040088	0.198507	0.128093	0.017799	0.000000	0.000000	0.000000	0.000000	0.000000	0.006500	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3781	3.4372	2.8872	0.0206		0.2612	0.2612		0.2612	0.2612		4,124.5780	4,124.5780	0.0791	0.0756	4,149.0883
NaturalGas Unmitigated	0.4168	3.7886	3.1824	0.0227		0.2879	0.2879		0.2879	0.2879		4,546.3377	4,546.3377	0.0871	0.0834	4,573.3543

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					
Office Park	2622.99	0.0283	0.2572	0.2160	1.5400e-003		0.0195	0.0195		0.0195	0.0195		308.5873	308.5873	5.9100e-003	5.6600e-003	310.4211
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Refrigerated Warehouse-No Rail	28361.6	0.3059	2.7806	2.3357	0.0167		0.2113	0.2113		0.2113	0.2113		3,336.6640	3,336.6640	0.0640	0.0612	3,356.4921
Unrefrigerated Warehouse-No Rail	7659.23	0.0826	0.7509	0.6308	4.5100e-003		0.0571	0.0571		0.0571	0.0571		901.0864	901.0864	0.0173	0.0165	906.4411
Total		**0.4168**	**3.7886**	**3.1824**	**0.0227**		**0.2879**	**0.2879**		**0.2879**	**0.2879**		**4,546.3377**	**4,546.3377**	**0.0871**	**0.0834**	**4,573.3543**

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					
Office Park	1.83609	0.0198	0.1800	0.1512	1.0800e-003		0.0137	0.0137		0.0137	0.0137		216.0111	216.0111	4.1400e-003	3.9600e-003	217.2948
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Refrigerated Warehouse-No Rail	27.8274	0.3001	2.7282	2.2917	0.0164		0.2073	0.2073		0.2073	0.2073		3,273.8114	3,273.8114	0.0628	0.0600	3,293.2661
Unrefrigerated Warehouse-No Rail	5.39542	0.0582	0.5290	0.4443	3.1700e-003		0.0402	0.0402		0.0402	0.0402		634.7555	634.7555	0.0122	0.0116	638.5275
Total		**0.3781**	**3.4372**	**2.8872**	**0.0206**		**0.2612**	**0.2612**		**0.2612**	**0.2612**		**4,124.5780**	**4,124.5780**	**0.0791**	**0.0756**	**4,149.0883**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	43.1176	1.8200e-003	0.1992	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4263	0.4263	1.1200e-003		0.4545
Unmitigated	43.1176	1.8200e-003	0.1992	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4263	0.4263	1.1200e-003		0.4545

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	4.8652					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	38.2338					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0185	1.8200e-003	0.1992	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4263	0.4263	1.1200e-003		0.4545
Total	**43.1176**	**1.8200e-003**	**0.1992**	**1.0000e-005**		**7.1000e-004**	**7.1000e-004**		**7.1000e-004**	**7.1000e-004**		**0.4263**	**0.4263**	**1.1200e-003**		**0.4545**

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	4.8652					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	38.2338					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0185	1.8200e-003	0.1992	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4263	0.4263	1.1200e-003		0.4545
Total	**43.1176**	**1.8200e-003**	**0.1992**	**1.0000e-005**		**7.1000e-004**	**7.1000e-004**		**7.1000e-004**	**7.1000e-004**		**0.4263**	**0.4263**	**1.1200e-003**		**0.4545**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	126	20.00	365	89	0.20	Diesel

UnMitigated/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
Equipment Type	lb/day										lb/day					
Forklifts	35.9621	333.9543	365.2472	0.4838		22.1222	22.1222		20.3525	20.3525		46,862.8602	46,862.8602	15.1564		47,241.7701
Total	**35.9621**	**333.9543**	**365.2472**	**0.4838**		**22.1222**	**22.1222**		**20.3525**	**20.3525**		**46,862.8602**	**46,862.8602**	**15.1564**		**47,241.7701**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Operation_Main

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	327.87	1000sqft	13.99	327,874.00	0
Refrigerated Warehouse-No Rail	200.00	1000sqft	13.99	200,000.00	0
Unrefrigerated Warehouse-No Rail	1,377.15	1000sqft	13.99	1,377,153.00	0
Other Asphalt Surfaces	25.21	Acre	25.21	1,098,198.00	0
Other Non-Asphalt Surfaces	9.71	Acre	9.71	0.00	0
Parking Lot	8.12	Acre	8.12	353,766.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	504.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See assumptions file in the AQ/GHG Appendix of the DEIR.

Land Use - See assumptions file in the AQ/GHG appendix of the DEIR.

Construction Phase -

Off-road Equipment -

Vehicle Trips - Based on information provided by Urban Crossroads. See assumptions file in the AQ/GHG appendix of the DEIR for details.

Area Coating - See assumptions file in the AQ/GHG appendix of the DEIR for details.

Water And Wastewater - See assumptions file in the AQ/GHG appendix of the DEIR for details.

Solid Waste - See assumptions file in the AQ/GHG appendix of the DEIR for further details.

Construction Off-road Equipment Mitigation - Assumes forklifts use for warehousing operations would be indoors and CNG-powered.

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - Anticipated based on building specs and operations.

Off-road Equipment - .

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	952512	952514
tblAreaCoating	Area_Nonresidential_Interior	2857536	2857541
tblAreaCoating	Area_Parking	87118	21226
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	LDA	0.55	0.61
tblFleetMix	LDA	0.55	0.61
tblFleetMix	LDA	0.55	0.61
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04

tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	5.1010e-003	0.00
tblFleetMix	LHD2	5.1010e-003	0.00
tblFleetMix	LHD2	5.1010e-003	0.00
tblFleetMix	MCY	5.9030e-003	6.5000e-003
tblFleetMix	MCY	5.9030e-003	6.5000e-003
tblFleetMix	MCY	5.9030e-003	6.5000e-003
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	9.4400e-004	0.00
tblFleetMix	MH	9.4400e-004	0.00
tblFleetMix	MH	9.4400e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3570e-003	0.00
tblFleetMix	OBUS	1.3570e-003	0.00
tblFleetMix	OBUS	1.3570e-003	0.00
tblFleetMix	SBUS	8.0800e-004	0.00
tblFleetMix	SBUS	8.0800e-004	0.00
tblFleetMix	SBUS	8.0800e-004	0.00

tblFleetMix	UBUS	1.5650e-003	0.00
tblFleetMix	UBUS	1.5650e-003	0.00
tblFleetMix	UBUS	1.5650e-003	0.00
tblLandUse	LandUseSquareFeet	327,870.00	327,874.00
tblLandUse	LandUseSquareFeet	1,377,150.00	1,377,153.00
tblLandUse	LandUseSquareFeet	1,098,147.60	1,098,198.00
tblLandUse	LandUseSquareFeet	422,967.60	0.00
tblLandUse	LandUseSquareFeet	353,707.20	353,766.00
tblLandUse	LotAcreage	7.53	13.99
tblLandUse	LotAcreage	4.59	13.99
tblLandUse	LotAcreage	31.62	13.99
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	20.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.20	0.20
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	126.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	504.44
tblSolidWaste	SolidWasteGenerationRate	304.92	359.02
tblSolidWaste	SolidWasteGenerationRate	188.00	518.30
tblSolidWaste	SolidWasteGenerationRate	1,294.52	3,568.89
tblVehicleEF	HHD	1.21	0.03
tblVehicleEF	HHD	0.04	0.14
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	3.29	5.95
tblVehicleEF	HHD	0.57	0.67
tblVehicleEF	HHD	1.82	3.7880e-003
tblVehicleEF	HHD	6,933.41	1,124.17
tblVehicleEF	HHD	1,475.79	1,484.27

tblVehicleEF	HHD	5.54	0.03
tblVehicleEF	HHD	26.50	6.08
tblVehicleEF	HHD	2.50	3.42
tblVehicleEF	HHD	20.21	2.10
tblVehicleEF	HHD	9.7780e-003	3.6280e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	9.3550e-003	3.4710e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.8310e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.5000e-005	5.0000e-006
tblVehicleEF	HHD	3.1910e-003	1.6000e-004
tblVehicleEF	HHD	0.84	0.43
tblVehicleEF	HHD	5.2000e-005	3.0000e-006
tblVehicleEF	HHD	0.08	0.08
tblVehicleEF	HHD	2.1700e-004	7.9100e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	5.0000e-006
tblVehicleEF	HHD	3.1910e-003	1.6000e-004
tblVehicleEF	HHD	0.97	0.50

tblVehicleEF	HHD	5.2000e-005	3.0000e-006
tblVehicleEF	HHD	0.13	0.23
tblVehicleEF	HHD	2.1700e-004	7.9100e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.14	0.03
tblVehicleEF	HHD	0.04	0.14
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.39	5.82
tblVehicleEF	HHD	0.57	0.67
tblVehicleEF	HHD	1.70	3.5770e-003
tblVehicleEF	HHD	7,345.18	1,121.04
tblVehicleEF	HHD	1,475.79	1,484.27
tblVehicleEF	HHD	5.54	0.03
tblVehicleEF	HHD	27.35	5.90
tblVehicleEF	HHD	2.36	3.23
tblVehicleEF	HHD	20.20	2.10
tblVehicleEF	HHD	8.2750e-003	3.1750e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	7.9170e-003	3.0380e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.8310e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	1.6800e-004	1.0000e-005

tblVehicleEF	HHD	3.5970e-003	1.8200e-004
tblVehicleEF	HHD	0.79	0.45
tblVehicleEF	HHD	1.1700e-004	7.0000e-006
tblVehicleEF	HHD	0.08	0.08
tblVehicleEF	HHD	2.2100e-004	8.1200e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	1.6800e-004	1.0000e-005
tblVehicleEF	HHD	3.5970e-003	1.8200e-004
tblVehicleEF	HHD	0.91	0.52
tblVehicleEF	HHD	1.1700e-004	7.0000e-006
tblVehicleEF	HHD	0.13	0.23
tblVehicleEF	HHD	2.2100e-004	8.1200e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.31	0.02
tblVehicleEF	HHD	0.04	3.3680e-003
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	4.53	5.98
tblVehicleEF	HHD	0.57	0.33
tblVehicleEF	HHD	1.79	3.7590e-003
tblVehicleEF	HHD	6,364.76	1,097.48
tblVehicleEF	HHD	1,475.79	1,393.36
tblVehicleEF	HHD	5.54	0.03
tblVehicleEF	HHD	25.32	6.13
tblVehicleEF	HHD	2.46	3.28

tblVehicleEF	HHD	20.20	2.10
tblVehicleEF	HHD	0.01	3.8650e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.6980e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.6000e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.5000e-005	5.0000e-006
tblVehicleEF	HHD	3.4760e-003	1.8700e-004
tblVehicleEF	HHD	0.91	0.40
tblVehicleEF	HHD	5.2000e-005	3.0000e-006
tblVehicleEF	HHD	0.08	0.07
tblVehicleEF	HHD	2.3300e-004	8.2900e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.5000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	5.0000e-006
tblVehicleEF	HHD	3.4760e-003	1.8700e-004
tblVehicleEF	HHD	1.05	0.46
tblVehicleEF	HHD	5.2000e-005	3.0000e-006
tblVehicleEF	HHD	0.13	0.08
tblVehicleEF	HHD	2.3300e-004	8.2900e-004

tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	LDA	4.2030e-003	2.5110e-003
tblVehicleEF	LDA	5.6230e-003	0.05
tblVehicleEF	LDA	0.57	0.67
tblVehicleEF	LDA	1.19	2.11
tblVehicleEF	LDA	251.29	263.44
tblVehicleEF	LDA	57.15	53.77
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.08	0.18
tblVehicleEF	LDA	1.6780e-003	1.5180e-003
tblVehicleEF	LDA	2.2790e-003	1.8540e-003
tblVehicleEF	LDA	1.5460e-003	1.3980e-003
tblVehicleEF	LDA	2.0960e-003	1.7050e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	9.5370e-003
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.22
tblVehicleEF	LDA	2.5170e-003	2.6060e-003
tblVehicleEF	LDA	5.9200e-004	5.3200e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.24

tblVehicleEF	LDA	4.7900e-003	2.8350e-003
tblVehicleEF	LDA	4.6890e-003	0.04
tblVehicleEF	LDA	0.71	0.81
tblVehicleEF	LDA	0.99	1.78
tblVehicleEF	LDA	274.94	285.26
tblVehicleEF	LDA	57.15	53.14
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.6780e-003	1.5180e-003
tblVehicleEF	LDA	2.2790e-003	1.8540e-003
tblVehicleEF	LDA	1.5460e-003	1.3980e-003
tblVehicleEF	LDA	2.0960e-003	1.7050e-003
tblVehicleEF	LDA	0.09	0.11
tblVehicleEF	LDA	0.12	0.11
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	2.7550e-003	2.8220e-003
tblVehicleEF	LDA	5.8800e-004	5.2600e-004
tblVehicleEF	LDA	0.09	0.11
tblVehicleEF	LDA	0.12	0.11
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	4.0860e-003	2.4590e-003

tblVehicleEF	LDA	5.5870e-003	0.05
tblVehicleEF	LDA	0.54	0.64
tblVehicleEF	LDA	1.18	2.11
tblVehicleEF	LDA	245.70	259.38
tblVehicleEF	LDA	57.15	53.78
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.08	0.18
tblVehicleEF	LDA	1.6780e-003	1.5180e-003
tblVehicleEF	LDA	2.2790e-003	1.8540e-003
tblVehicleEF	LDA	1.5460e-003	1.3980e-003
tblVehicleEF	LDA	2.0960e-003	1.7050e-003
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	9.3400e-003
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.22
tblVehicleEF	LDA	2.4600e-003	2.5660e-003
tblVehicleEF	LDA	5.9100e-004	5.3200e-004
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.24
tblVehicleEF	LDT1	0.01	7.5760e-003
tblVehicleEF	LDT1	0.02	0.08

tblVehicleEF	LDT1	1.54	1.52
tblVehicleEF	LDT1	3.61	2.38
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tblVehicleEF	LDT1	70.93	65.27
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	0.22	0.30
tblVehicleEF	LDT1	2.7050e-003	2.3390e-003
tblVehicleEF	LDT1	3.6920e-003	2.8340e-003
tblVehicleEF	LDT1	2.4910e-003	2.1530e-003
tblVehicleEF	LDT1	3.3960e-003	2.6050e-003
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.20	0.86
tblVehicleEF	LDT1	0.26	0.42
tblVehicleEF	LDT1	3.1570e-003	3.0930e-003
tblVehicleEF	LDT1	7.7300e-004	6.4600e-004
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.86
tblVehicleEF	LDT1	0.28	0.47
tblVehicleEF	LDT1	0.02	8.4640e-003
tblVehicleEF	LDT1	0.02	0.07
tblVehicleEF	LDT1	1.85	1.80

tblVehicleEF	LDT1	2.97	2.00
tblVehicleEF	LDT1	341.75	335.30
tblVehicleEF	LDT1	70.93	64.45
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.20	0.28
tblVehicleEF	LDT1	2.7050e-003	2.3390e-003
tblVehicleEF	LDT1	3.6920e-003	2.8340e-003
tblVehicleEF	LDT1	2.4910e-003	2.1530e-003
tblVehicleEF	LDT1	3.3960e-003	2.6050e-003
tblVehicleEF	LDT1	0.37	0.36
tblVehicleEF	LDT1	0.41	0.31
tblVehicleEF	LDT1	0.27	0.26
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.20	0.85
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	3.4420e-003	3.3180e-003
tblVehicleEF	LDT1	7.6200e-004	6.3800e-004
tblVehicleEF	LDT1	0.37	0.36
tblVehicleEF	LDT1	0.41	0.31
tblVehicleEF	LDT1	0.27	0.26
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.85
tblVehicleEF	LDT1	0.23	0.40
tblVehicleEF	LDT1	0.01	7.4310e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.47	1.46
tblVehicleEF	LDT1	3.55	2.39

tblVehicleEF	LDT1	307.06	308.38
tblVehicleEF	LDT1	70.93	65.29
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	0.21	0.29
tblVehicleEF	LDT1	2.7050e-003	2.3390e-003
tblVehicleEF	LDT1	3.6920e-003	2.8340e-003
tblVehicleEF	LDT1	2.4910e-003	2.1530e-003
tblVehicleEF	LDT1	3.3960e-003	2.6050e-003
tblVehicleEF	LDT1	0.19	0.19
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.00
tblVehicleEF	LDT1	0.25	0.43
tblVehicleEF	LDT1	3.0890e-003	3.0520e-003
tblVehicleEF	LDT1	7.7200e-004	6.4600e-004
tblVehicleEF	LDT1	0.19	0.19
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.23	1.00
tblVehicleEF	LDT1	0.28	0.47
tblVehicleEF	LDT2	6.3270e-003	4.4090e-003
tblVehicleEF	LDT2	8.1990e-003	0.07
tblVehicleEF	LDT2	0.80	1.00
tblVehicleEF	LDT2	1.67	2.71
tblVehicleEF	LDT2	351.15	333.43

tblVehicleEF	LDT2	79.39	69.80
tblVehicleEF	LDT2	0.09	0.09
tblVehicleEF	LDT2	0.14	0.30
tblVehicleEF	LDT2	1.7270e-003	1.5990e-003
tblVehicleEF	LDT2	2.4170e-003	1.9200e-003
tblVehicleEF	LDT2	1.5880e-003	1.4710e-003
tblVehicleEF	LDT2	2.2220e-003	1.7660e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.11	0.33
tblVehicleEF	LDT2	3.5180e-003	3.2990e-003
tblVehicleEF	LDT2	8.2200e-004	6.9100e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.12	0.36
tblVehicleEF	LDT2	7.1840e-003	4.9540e-003
tblVehicleEF	LDT2	6.8290e-003	0.06
tblVehicleEF	LDT2	0.97	1.19
tblVehicleEF	LDT2	1.38	2.27
tblVehicleEF	LDT2	383.36	355.41
tblVehicleEF	LDT2	79.39	68.95

tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.13	0.28
tblVehicleEF	LDT2	1.7270e-003	1.5990e-003
tblVehicleEF	LDT2	2.4170e-003	1.9200e-003
tblVehicleEF	LDT2	1.5880e-003	1.4710e-003
tblVehicleEF	LDT2	2.2220e-003	1.7660e-003
tblVehicleEF	LDT2	0.13	0.18
tblVehicleEF	LDT2	0.15	0.16
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.8420e-003	3.5160e-003
tblVehicleEF	LDT2	8.1700e-004	6.8200e-004
tblVehicleEF	LDT2	0.13	0.18
tblVehicleEF	LDT2	0.15	0.16
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	6.1560e-003	4.3220e-003
tblVehicleEF	LDT2	8.1410e-003	0.07
tblVehicleEF	LDT2	0.75	0.96
tblVehicleEF	LDT2	1.64	2.72
tblVehicleEF	LDT2	343.55	329.34
tblVehicleEF	LDT2	79.39	69.82
tblVehicleEF	LDT2	0.08	0.08

tblVehicleEF	LDT2	0.14	0.30
tblVehicleEF	LDT2	1.7270e-003	1.5990e-003
tblVehicleEF	LDT2	2.4170e-003	1.9200e-003
tblVehicleEF	LDT2	1.5880e-003	1.4710e-003
tblVehicleEF	LDT2	2.2220e-003	1.7660e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.52
tblVehicleEF	LDT2	0.11	0.33
tblVehicleEF	LDT2	3.4410e-003	3.2580e-003
tblVehicleEF	LDT2	8.2200e-004	6.9100e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.52
tblVehicleEF	LDT2	0.12	0.37
tblVehicleEF	LHD1	5.2170e-003	5.0850e-003
tblVehicleEF	LHD1	0.01	6.1020e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.07	0.75
tblVehicleEF	LHD1	2.60	1.03
tblVehicleEF	LHD1	9.23	9.25
tblVehicleEF	LHD1	609.20	652.45

tblVehicleEF	LHD1	30.40	11.21
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	2.12	1.25
tblVehicleEF	LHD1	0.99	0.32
tblVehicleEF	LHD1	9.6500e-004	8.9000e-004
tblVehicleEF	LHD1	0.01	9.8770e-003
tblVehicleEF	LHD1	0.01	9.8260e-003
tblVehicleEF	LHD1	9.5800e-004	2.6000e-004
tblVehicleEF	LHD1	9.2400e-004	8.5100e-004
tblVehicleEF	LHD1	2.5390e-003	2.4690e-003
tblVehicleEF	LHD1	0.01	9.3750e-003
tblVehicleEF	LHD1	8.8100e-004	2.3900e-004
tblVehicleEF	LHD1	3.7070e-003	3.0390e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8240e-003	1.5810e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.55
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3570e-003
tblVehicleEF	LHD1	3.5300e-004	1.1100e-004
tblVehicleEF	LHD1	3.7070e-003	3.0390e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8240e-003	1.5810e-003
tblVehicleEF	LHD1	0.10	0.08

tblVehicleEF	LHD1	0.35	0.55
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.2170e-003	5.0990e-003
tblVehicleEF	LHD1	0.01	6.2280e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.09	0.76
tblVehicleEF	LHD1	2.43	0.98
tblVehicleEF	LHD1	9.23	9.25
tblVehicleEF	LHD1	609.20	652.47
tblVehicleEF	LHD1	30.40	11.12
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.98	1.17
tblVehicleEF	LHD1	0.94	0.31
tblVehicleEF	LHD1	9.6500e-004	8.9000e-004
tblVehicleEF	LHD1	0.01	9.8770e-003
tblVehicleEF	LHD1	0.01	9.8260e-003
tblVehicleEF	LHD1	9.5800e-004	2.6000e-004
tblVehicleEF	LHD1	9.2400e-004	8.5100e-004
tblVehicleEF	LHD1	2.5390e-003	2.4690e-003
tblVehicleEF	LHD1	0.01	9.3750e-003
tblVehicleEF	LHD1	8.8100e-004	2.3900e-004
tblVehicleEF	LHD1	7.3080e-003	5.4780e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.1220e-003	3.0450e-003
tblVehicleEF	LHD1	0.09	0.06

tblVehicleEF	LHD1	0.36	0.56
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9770e-003	6.3570e-003
tblVehicleEF	LHD1	3.5000e-004	1.1000e-004
tblVehicleEF	LHD1	7.3080e-003	5.4780e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.1220e-003	3.0450e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.36	0.56
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.2170e-003	5.0870e-003
tblVehicleEF	LHD1	0.01	6.1100e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.07	0.75
tblVehicleEF	LHD1	2.55	1.02
tblVehicleEF	LHD1	9.23	9.25
tblVehicleEF	LHD1	609.20	652.45
tblVehicleEF	LHD1	30.40	11.20
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	2.08	1.23
tblVehicleEF	LHD1	0.97	0.31
tblVehicleEF	LHD1	9.6500e-004	8.9000e-004
tblVehicleEF	LHD1	0.01	9.8770e-003
tblVehicleEF	LHD1	0.01	9.8260e-003

tblVehicleEF	LHD1	9.5800e-004	2.6000e-004
tblVehicleEF	LHD1	9.2400e-004	8.5100e-004
tblVehicleEF	LHD1	2.5390e-003	2.4690e-003
tblVehicleEF	LHD1	0.01	9.3750e-003
tblVehicleEF	LHD1	8.8100e-004	2.3900e-004
tblVehicleEF	LHD1	4.0430e-003	3.1520e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7940e-003	1.6100e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.60
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3570e-003
tblVehicleEF	LHD1	3.5200e-004	1.1100e-004
tblVehicleEF	LHD1	4.0430e-003	3.1520e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7940e-003	1.6100e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.38	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	3.5950e-003	3.6950e-003
tblVehicleEF	LHD2	4.6110e-003	4.1040e-003
tblVehicleEF	LHD2	8.1370e-003	0.01
tblVehicleEF	LHD2	0.12	0.15
tblVehicleEF	LHD2	0.50	0.50

tblVehicleEF	LHD2	1.20	0.67
tblVehicleEF	LHD2	14.27	14.14
tblVehicleEF	LHD2	608.52	665.25
tblVehicleEF	LHD2	24.46	8.76
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.49	1.36
tblVehicleEF	LHD2	0.53	0.22
tblVehicleEF	LHD2	1.2830e-003	1.3100e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.3700e-004
tblVehicleEF	LHD2	1.2280e-003	1.2540e-003
tblVehicleEF	LHD2	2.6860e-003	2.6560e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.2600e-004
tblVehicleEF	LHD2	1.3070e-003	1.7040e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.0300e-004	9.2000e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.9200e-003	6.4300e-003
tblVehicleEF	LHD2	2.6700e-004	8.7000e-005
tblVehicleEF	LHD2	1.3070e-003	1.7040e-003
tblVehicleEF	LHD2	0.04	0.05

tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0300e-004	9.2000e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	3.5950e-003	3.7050e-003
tblVehicleEF	LHD2	4.6760e-003	4.1460e-003
tblVehicleEF	LHD2	7.7630e-003	0.01
tblVehicleEF	LHD2	0.12	0.15
tblVehicleEF	LHD2	0.50	0.50
tblVehicleEF	LHD2	1.13	0.64
tblVehicleEF	LHD2	14.27	14.14
tblVehicleEF	LHD2	608.52	665.25
tblVehicleEF	LHD2	24.46	8.70
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.40	1.28
tblVehicleEF	LHD2	0.50	0.21
tblVehicleEF	LHD2	1.2830e-003	1.3100e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.3700e-004
tblVehicleEF	LHD2	1.2280e-003	1.2540e-003
tblVehicleEF	LHD2	2.6860e-003	2.6560e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.2600e-004
tblVehicleEF	LHD2	2.5220e-003	3.0730e-003
tblVehicleEF	LHD2	0.04	0.06

tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7630e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.9200e-003	6.4300e-003
tblVehicleEF	LHD2	2.6500e-004	8.6000e-005
tblVehicleEF	LHD2	2.5220e-003	3.0730e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7630e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.5950e-003	3.6960e-003
tblVehicleEF	LHD2	4.6180e-003	4.1080e-003
tblVehicleEF	LHD2	8.0640e-003	0.01
tblVehicleEF	LHD2	0.12	0.15
tblVehicleEF	LHD2	0.50	0.50
tblVehicleEF	LHD2	1.19	0.67
tblVehicleEF	LHD2	14.27	14.14
tblVehicleEF	LHD2	608.52	665.25
tblVehicleEF	LHD2	24.46	8.75
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.46	1.33
tblVehicleEF	LHD2	0.52	0.22

tblVehicleEF	LHD2	1.2830e-003	1.3100e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.3700e-004
tblVehicleEF	LHD2	1.2280e-003	1.2540e-003
tblVehicleEF	LHD2	2.6860e-003	2.6560e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.2600e-004
tblVehicleEF	LHD2	1.3460e-003	1.7140e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.8700e-004	9.2200e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.10	0.34
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.9200e-003	6.4300e-003
tblVehicleEF	LHD2	2.6600e-004	8.7000e-005
tblVehicleEF	LHD2	1.3460e-003	1.7140e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.8700e-004	9.2200e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.10	0.34
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.16	0.24

tblVehicleEF	MCY	20.55	19.26
tblVehicleEF	MCY	9.93	8.60
tblVehicleEF	MCY	167.73	212.03
tblVehicleEF	MCY	46.45	60.73
tblVehicleEF	MCY	1.16	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8610e-003	1.9650e-003
tblVehicleEF	MCY	3.6730e-003	2.9600e-003
tblVehicleEF	MCY	1.7420e-003	1.8380e-003
tblVehicleEF	MCY	3.4650e-003	2.7870e-003
tblVehicleEF	MCY	1.45	1.42
tblVehicleEF	MCY	0.84	0.80
tblVehicleEF	MCY	0.80	0.78
tblVehicleEF	MCY	2.23	2.33
tblVehicleEF	MCY	0.49	1.91
tblVehicleEF	MCY	2.16	1.84
tblVehicleEF	MCY	2.0770e-003	2.0980e-003
tblVehicleEF	MCY	6.9000e-004	6.0100e-004
tblVehicleEF	MCY	1.45	1.42
tblVehicleEF	MCY	0.84	0.80
tblVehicleEF	MCY	0.80	0.78
tblVehicleEF	MCY	2.74	2.87
tblVehicleEF	MCY	0.49	1.91
tblVehicleEF	MCY	2.35	2.01
tblVehicleEF	MCY	0.42	0.34
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	20.68	19.28

tblVehicleEF	MCY	9.05	7.90
tblVehicleEF	MCY	167.73	211.90
tblVehicleEF	MCY	46.45	58.88
tblVehicleEF	MCY	0.99	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8610e-003	1.9650e-003
tblVehicleEF	MCY	3.6730e-003	2.9600e-003
tblVehicleEF	MCY	1.7420e-003	1.8380e-003
tblVehicleEF	MCY	3.4650e-003	2.7870e-003
tblVehicleEF	MCY	3.14	2.77
tblVehicleEF	MCY	1.27	1.11
tblVehicleEF	MCY	2.13	1.77
tblVehicleEF	MCY	2.17	2.28
tblVehicleEF	MCY	0.49	1.88
tblVehicleEF	MCY	1.86	1.62
tblVehicleEF	MCY	2.0770e-003	2.0970e-003
tblVehicleEF	MCY	6.6700e-004	5.8300e-004
tblVehicleEF	MCY	3.14	2.77
tblVehicleEF	MCY	1.27	1.11
tblVehicleEF	MCY	2.13	1.77
tblVehicleEF	MCY	2.67	2.81
tblVehicleEF	MCY	0.49	1.88
tblVehicleEF	MCY	2.02	1.76
tblVehicleEF	MCY	0.42	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.63	18.76
tblVehicleEF	MCY	9.55	8.44

tblVehicleEF	MCY	167.73	211.17
tblVehicleEF	MCY	46.45	60.38
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8610e-003	1.9650e-003
tblVehicleEF	MCY	3.6730e-003	2.9600e-003
tblVehicleEF	MCY	1.7420e-003	1.8380e-003
tblVehicleEF	MCY	3.4650e-003	2.7870e-003
tblVehicleEF	MCY	1.71	1.57
tblVehicleEF	MCY	1.13	1.06
tblVehicleEF	MCY	0.72	0.74
tblVehicleEF	MCY	2.19	2.31
tblVehicleEF	MCY	0.56	2.18
tblVehicleEF	MCY	2.08	1.81
tblVehicleEF	MCY	2.0610e-003	2.0900e-003
tblVehicleEF	MCY	6.8200e-004	5.9800e-004
tblVehicleEF	MCY	1.71	1.57
tblVehicleEF	MCY	1.13	1.06
tblVehicleEF	MCY	0.72	0.74
tblVehicleEF	MCY	2.69	2.84
tblVehicleEF	MCY	0.56	2.18
tblVehicleEF	MCY	2.27	1.98
tblVehicleEF	MDV	0.01	5.5200e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.35	1.13
tblVehicleEF	MDV	3.25	3.24
tblVehicleEF	MDV	483.94	412.47

tblVehicleEF	MDV	107.92	86.76
tblVehicleEF	MDV	0.17	0.11
tblVehicleEF	MDV	0.32	0.38
tblVehicleEF	MDV	1.8260e-003	1.6820e-003
tblVehicleEF	MDV	2.5170e-003	2.0280e-003
tblVehicleEF	MDV	1.6830e-003	1.5510e-003
tblVehicleEF	MDV	2.3150e-003	1.8650e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MDV	4.8500e-003	4.0780e-003
tblVehicleEF	MDV	1.1370e-003	8.5900e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.28	0.48
tblVehicleEF	MDV	0.01	6.2110e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.64	1.35
tblVehicleEF	MDV	2.69	2.71
tblVehicleEF	MDV	526.85	435.67
tblVehicleEF	MDV	107.92	85.71

tblVehicleEF	MDV	0.16	0.10
tblVehicleEF	MDV	0.30	0.35
tblVehicleEF	MDV	1.8260e-003	1.6820e-003
tblVehicleEF	MDV	2.5170e-003	2.0280e-003
tblVehicleEF	MDV	1.6830e-003	1.5510e-003
tblVehicleEF	MDV	2.3150e-003	1.8650e-003
tblVehicleEF	MDV	0.20	0.21
tblVehicleEF	MDV	0.23	0.19
tblVehicleEF	MDV	0.17	0.19
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.49
tblVehicleEF	MDV	0.21	0.38
tblVehicleEF	MDV	5.2830e-003	4.3080e-003
tblVehicleEF	MDV	1.1260e-003	8.4800e-004
tblVehicleEF	MDV	0.20	0.21
tblVehicleEF	MDV	0.23	0.19
tblVehicleEF	MDV	0.17	0.19
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.49
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	0.01	5.4050e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.28	1.09
tblVehicleEF	MDV	3.20	3.25
tblVehicleEF	MDV	473.93	408.15
tblVehicleEF	MDV	107.92	86.78
tblVehicleEF	MDV	0.16	0.10

tblVehicleEF	MDV	0.32	0.38
tblVehicleEF	MDV	1.8260e-003	1.6820e-003
tblVehicleEF	MDV	2.5170e-003	2.0280e-003
tblVehicleEF	MDV	1.6830e-003	1.5510e-003
tblVehicleEF	MDV	2.3150e-003	1.8650e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.57
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MDV	4.7490e-003	4.0360e-003
tblVehicleEF	MDV	1.1360e-003	8.5900e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.57
tblVehicleEF	MDV	0.27	0.48
tblVehicleEF	MH	0.04	3.6580e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.07	0.35
tblVehicleEF	MH	6.43	0.00
tblVehicleEF	MH	1,045.05	970.21
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.54	4.24
tblVehicleEF	MH	0.91	0.00

tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.0790e-003	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	9.1720e-003
tblVehicleEF	MH	7.0700e-004	0.00
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tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.14	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.04	3.6580e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.19	0.35
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tblVehicleEF	MH	1,045.05	970.21
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.41	4.00

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tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.0790e-003	0.00
tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.01	9.1720e-003
tblVehicleEF	MH	6.9700e-004	0.00
tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.04	3.6580e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.08	0.35
tblVehicleEF	MH	6.36	0.00
tblVehicleEF	MH	1,045.05	970.21
tblVehicleEF	MH	59.49	0.00

tblVehicleEF	MH	1.51	4.17
tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.0790e-003	0.00
tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	9.1720e-003
tblVehicleEF	MH	7.0600e-004	0.00
tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MHD	0.02	2.5070e-003
tblVehicleEF	MHD	3.5160e-003	3.3210e-003
tblVehicleEF	MHD	0.05	6.4670e-003
tblVehicleEF	MHD	0.32	0.31
tblVehicleEF	MHD	0.27	0.32

tblVehicleEF	MHD	5.32	0.74
tblVehicleEF	MHD	156.91	68.92
tblVehicleEF	MHD	1,101.52	974.57
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tblVehicleEF	MHD	11.88	1.50
tblVehicleEF	MHD	3.8600e-004	1.2310e-003
tblVehicleEF	MHD	5.0030e-003	0.04
tblVehicleEF	MHD	7.6400e-004	7.5000e-005
tblVehicleEF	MHD	3.6900e-004	1.1780e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	6.9000e-005
tblVehicleEF	MHD	1.2800e-003	4.5300e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.5100e-004	2.4000e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.03
tblVehicleEF	MHD	1.5080e-003	6.5300e-004
tblVehicleEF	MHD	0.01	9.2620e-003
tblVehicleEF	MHD	6.1700e-004	6.3000e-005
tblVehicleEF	MHD	1.2800e-003	4.5300e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.5100e-004	2.4000e-004

tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	MHD	0.02	2.3860e-003
tblVehicleEF	MHD	3.5800e-003	3.3450e-003
tblVehicleEF	MHD	0.05	6.2100e-003
tblVehicleEF	MHD	0.24	0.26
tblVehicleEF	MHD	0.28	0.33
tblVehicleEF	MHD	4.97	0.70
tblVehicleEF	MHD	166.20	69.59
tblVehicleEF	MHD	1,101.52	974.58
tblVehicleEF	MHD	52.43	6.28
tblVehicleEF	MHD	0.62	0.52
tblVehicleEF	MHD	0.92	1.52
tblVehicleEF	MHD	11.85	1.49
tblVehicleEF	MHD	3.2500e-004	1.0410e-003
tblVehicleEF	MHD	5.0030e-003	0.04
tblVehicleEF	MHD	7.6400e-004	7.5000e-005
tblVehicleEF	MHD	3.1100e-004	9.9600e-004
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	6.9000e-005
tblVehicleEF	MHD	2.5300e-003	8.2800e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5010e-003	4.7800e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.08

tblVehicleEF	MHD	0.30	0.03
tblVehicleEF	MHD	1.5950e-003	6.5900e-004
tblVehicleEF	MHD	0.01	9.2620e-003
tblVehicleEF	MHD	6.1100e-004	6.2000e-005
tblVehicleEF	MHD	2.5300e-003	8.2800e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5010e-003	4.7800e-004
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	0.02	2.6830e-003
tblVehicleEF	MHD	3.5220e-003	3.3210e-003
tblVehicleEF	MHD	0.05	6.4200e-003
tblVehicleEF	MHD	0.45	0.37
tblVehicleEF	MHD	0.27	0.32
tblVehicleEF	MHD	5.23	0.74
tblVehicleEF	MHD	144.06	68.00
tblVehicleEF	MHD	1,101.52	974.57
tblVehicleEF	MHD	52.43	6.34
tblVehicleEF	MHD	0.57	0.52
tblVehicleEF	MHD	0.97	1.59
tblVehicleEF	MHD	11.87	1.50
tblVehicleEF	MHD	4.7000e-004	1.4940e-003
tblVehicleEF	MHD	5.0030e-003	0.04
tblVehicleEF	MHD	7.6400e-004	7.5000e-005
tblVehicleEF	MHD	4.4900e-004	1.4300e-003

tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	6.9000e-005
tblVehicleEF	MHD	1.3890e-003	4.7100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.4000e-004	2.4400e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.32	0.03
tblVehicleEF	MHD	1.3860e-003	6.4400e-004
tblVehicleEF	MHD	0.01	9.2620e-003
tblVehicleEF	MHD	6.1600e-004	6.3000e-005
tblVehicleEF	MHD	1.3890e-003	4.7100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.4000e-004	2.4400e-004
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	OBUS	0.01	8.8190e-003
tblVehicleEF	OBUS	9.9110e-003	6.5960e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.52
tblVehicleEF	OBUS	0.63	0.77
tblVehicleEF	OBUS	6.27	2.45
tblVehicleEF	OBUS	70.35	76.06
tblVehicleEF	OBUS	1,121.50	1,406.90

tblVehicleEF	OBUS	70.70	20.49
tblVehicleEF	OBUS	0.28	0.34
tblVehicleEF	OBUS	0.97	1.24
tblVehicleEF	OBUS	1.93	0.68
tblVehicleEF	OBUS	6.4000e-005	5.8900e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.1800e-004
tblVehicleEF	OBUS	6.1000e-005	5.6400e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.0100e-004
tblVehicleEF	OBUS	2.1800e-003	2.6020e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.3100e-004	1.1160e-003
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	6.8400e-004	7.2500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1700e-004	2.0300e-004
tblVehicleEF	OBUS	2.1800e-003	2.6020e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.3100e-004	1.1160e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.42	0.13

tblVehicleEF	OBUS	0.01	8.8750e-003
tblVehicleEF	OBUS	0.01	6.7350e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.51
tblVehicleEF	OBUS	0.65	0.79
tblVehicleEF	OBUS	5.74	2.28
tblVehicleEF	OBUS	73.50	75.90
tblVehicleEF	OBUS	1,121.50	1,406.93
tblVehicleEF	OBUS	70.70	20.20
tblVehicleEF	OBUS	0.29	0.34
tblVehicleEF	OBUS	0.90	1.16
tblVehicleEF	OBUS	1.88	0.67
tblVehicleEF	OBUS	5.4000e-005	5.0100e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.1800e-004
tblVehicleEF	OBUS	5.1000e-005	4.7900e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.0100e-004
tblVehicleEF	OBUS	4.2350e-003	4.6860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.1330e-003	2.2090e-003
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.11
tblVehicleEF	OBUS	7.1400e-004	7.2400e-004
tblVehicleEF	OBUS	0.01	0.01

tblVehicleEF	OBUS	8.0800e-004	2.0000e-004
tblVehicleEF	OBUS	4.2350e-003	4.6860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	2.1330e-003	2.2090e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.40	0.12
tblVehicleEF	OBUS	0.01	8.7740e-003
tblVehicleEF	OBUS	9.9380e-003	6.6000e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.53
tblVehicleEF	OBUS	0.63	0.77
tblVehicleEF	OBUS	6.22	2.45
tblVehicleEF	OBUS	66.00	76.30
tblVehicleEF	OBUS	1,121.50	1,406.90
tblVehicleEF	OBUS	70.70	20.50
tblVehicleEF	OBUS	0.27	0.35
tblVehicleEF	OBUS	0.96	1.22
tblVehicleEF	OBUS	1.91	0.68
tblVehicleEF	OBUS	7.7000e-005	7.1200e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.1800e-004
tblVehicleEF	OBUS	7.4000e-005	6.8100e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.0100e-004
tblVehicleEF	OBUS	2.3200e-003	2.7390e-003

tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.4100e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.05	0.30
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	6.4200e-004	7.2700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1600e-004	2.0300e-004
tblVehicleEF	OBUS	2.3200e-003	2.7390e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.4100e-004	1.1650e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.30
tblVehicleEF	OBUS	0.42	0.13
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	0.01	8.5840e-003
tblVehicleEF	SBUS	0.07	6.1570e-003
tblVehicleEF	SBUS	5.71	2.50
tblVehicleEF	SBUS	0.65	0.78
tblVehicleEF	SBUS	5.33	0.82
tblVehicleEF	SBUS	1,258.13	345.06
tblVehicleEF	SBUS	1,136.31	1,112.17
tblVehicleEF	SBUS	37.11	4.79
tblVehicleEF	SBUS	11.70	3.29
tblVehicleEF	SBUS	4.77	5.20

tblVehicleEF	SBUS	15.02	0.91
tblVehicleEF	SBUS	0.01	4.3580e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	4.1690e-003
tblVehicleEF	SBUS	2.7560e-003	2.7010e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	3.6000e-005
tblVehicleEF	SBUS	2.9260e-003	1.2420e-003
tblVehicleEF	SBUS	0.02	9.5120e-003
tblVehicleEF	SBUS	0.68	0.28
tblVehicleEF	SBUS	1.3050e-003	5.9000e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	9.3510e-003	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.2890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6300e-004	4.7000e-005
tblVehicleEF	SBUS	2.9260e-003	1.2420e-003
tblVehicleEF	SBUS	0.02	9.5120e-003
tblVehicleEF	SBUS	0.97	0.40
tblVehicleEF	SBUS	1.3050e-003	5.9000e-004
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	9.3510e-003	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.84	0.06

tblVehicleEF	SBUS	0.01	8.7140e-003
tblVehicleEF	SBUS	0.06	5.1550e-003
tblVehicleEF	SBUS	5.56	2.47
tblVehicleEF	SBUS	0.66	0.80
tblVehicleEF	SBUS	3.65	0.60
tblVehicleEF	SBUS	1,322.00	352.98
tblVehicleEF	SBUS	1,136.31	1,112.20
tblVehicleEF	SBUS	37.11	4.41
tblVehicleEF	SBUS	12.08	3.36
tblVehicleEF	SBUS	4.47	4.88
tblVehicleEF	SBUS	14.99	0.90
tblVehicleEF	SBUS	0.01	3.6810e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	4.0000e-005
tblVehicleEF	SBUS	9.6490e-003	3.5220e-003
tblVehicleEF	SBUS	2.7560e-003	2.7010e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	3.6000e-005
tblVehicleEF	SBUS	5.6170e-003	2.2080e-003
tblVehicleEF	SBUS	0.02	9.9850e-003
tblVehicleEF	SBUS	0.67	0.28
tblVehicleEF	SBUS	2.8800e-003	1.1130e-003
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	8.5310e-003	0.06
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3630e-003

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.3500e-004	4.4000e-005
tblVehicleEF	SBUS	5.6170e-003	2.2080e-003
tblVehicleEF	SBUS	0.02	9.9850e-003
tblVehicleEF	SBUS	0.97	0.40
tblVehicleEF	SBUS	2.8800e-003	1.1130e-003
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	8.5310e-003	0.06
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	0.01	8.5760e-003
tblVehicleEF	SBUS	0.07	6.3440e-003
tblVehicleEF	SBUS	5.91	2.56
tblVehicleEF	SBUS	0.65	0.78
tblVehicleEF	SBUS	5.37	0.86
tblVehicleEF	SBUS	1,169.92	334.13
tblVehicleEF	SBUS	1,136.31	1,112.17
tblVehicleEF	SBUS	37.11	4.85
tblVehicleEF	SBUS	11.19	3.19
tblVehicleEF	SBUS	4.69	5.12
tblVehicleEF	SBUS	15.02	0.91
tblVehicleEF	SBUS	0.01	5.2920e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	5.0630e-003
tblVehicleEF	SBUS	2.7560e-003	2.7010e-003

tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	3.6000e-005
tblVehicleEF	SBUS	2.9580e-003	1.2070e-003
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.68	0.28
tblVehicleEF	SBUS	1.2820e-003	6.0100e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.08
tblVehicleEF	SBUS	0.28	0.04
tblVehicleEF	SBUS	0.01	3.1850e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6400e-004	4.8000e-005
tblVehicleEF	SBUS	2.9580e-003	1.2070e-003
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.98	0.40
tblVehicleEF	SBUS	1.2820e-003	6.0100e-004
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.01	0.08
tblVehicleEF	SBUS	0.31	0.04
tblVehicleEF	UBUS	1.83	4.45
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	9.26	34.75
tblVehicleEF	UBUS	14.34	0.89
tblVehicleEF	UBUS	1,846.39	1,692.13
tblVehicleEF	UBUS	136.37	11.77
tblVehicleEF	UBUS	5.87	0.38
tblVehicleEF	UBUS	13.57	0.14

tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6550e-003
tblVehicleEF	UBUS	1.4030e-003	1.4100e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5280e-003
tblVehicleEF	UBUS	1.2900e-003	1.3000e-004
tblVehicleEF	UBUS	8.0860e-003	1.6780e-003
tblVehicleEF	UBUS	0.11	9.5390e-003
tblVehicleEF	UBUS	3.9450e-003	7.3700e-004
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.15	0.04
tblVehicleEF	UBUS	0.01	3.0250e-003
tblVehicleEF	UBUS	1.6240e-003	1.1700e-004
tblVehicleEF	UBUS	8.0860e-003	1.6780e-003
tblVehicleEF	UBUS	0.11	9.5390e-003
tblVehicleEF	UBUS	3.9450e-003	7.3700e-004
tblVehicleEF	UBUS	2.50	4.54
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.25	0.04
tblVehicleEF	UBUS	1.83	4.45
tblVehicleEF	UBUS	0.08	9.2350e-003
tblVehicleEF	UBUS	9.36	34.75
tblVehicleEF	UBUS	11.74	0.76
tblVehicleEF	UBUS	1,846.39	1,692.13

tblVehicleEF	UBUS	136.37	11.55
tblVehicleEF	UBUS	5.45	0.38
tblVehicleEF	UBUS	13.45	0.13
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6550e-003
tblVehicleEF	UBUS	1.4030e-003	1.4100e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5280e-003
tblVehicleEF	UBUS	1.2900e-003	1.3000e-004
tblVehicleEF	UBUS	0.02	3.0610e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4840e-003
tblVehicleEF	UBUS	0.62	0.07
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.02	0.03
tblVehicleEF	UBUS	0.01	3.0250e-003
tblVehicleEF	UBUS	1.5790e-003	1.1400e-004
tblVehicleEF	UBUS	0.02	3.0610e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4840e-003
tblVehicleEF	UBUS	2.52	4.54
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.12	0.04
tblVehicleEF	UBUS	1.83	4.45
tblVehicleEF	UBUS	0.08	0.01

tblVehicleEF	UBUS	9.27	34.75
tblVehicleEF	UBUS	13.86	0.90
tblVehicleEF	UBUS	1,846.39	1,692.13
tblVehicleEF	UBUS	136.37	11.80
tblVehicleEF	UBUS	5.76	0.38
tblVehicleEF	UBUS	13.55	0.14
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6550e-003
tblVehicleEF	UBUS	1.4030e-003	1.4100e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5280e-003
tblVehicleEF	UBUS	1.2900e-003	1.3000e-004
tblVehicleEF	UBUS	9.2250e-003	1.6870e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	4.1190e-003	7.4500e-004
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.13	0.04
tblVehicleEF	UBUS	0.01	3.0250e-003
tblVehicleEF	UBUS	1.6160e-003	1.1700e-004
tblVehicleEF	UBUS	9.2250e-003	1.6870e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	4.1190e-003	7.4500e-004
tblVehicleEF	UBUS	2.50	4.54
tblVehicleEF	UBUS	0.03	0.05

tblVehicleEF	UBUS	1.24	0.04
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	16.50
tblVehicleTrips	CW_TL	16.60	16.50
tblVehicleTrips	CW_TL	16.60	16.50
tblVehicleTrips	CW_TTP	33.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	15.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	82.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.64	2.93
tblVehicleTrips	ST_TR	1.68	1.44
tblVehicleTrips	ST_TR	1.68	1.33
tblVehicleTrips	SU_TR	0.76	2.93
tblVehicleTrips	SU_TR	1.68	1.44
tblVehicleTrips	SU_TR	1.68	1.31
tblVehicleTrips	WD_TR	11.42	2.93

tblVehicleTrips	WD_TR	1.68	1.44
tblVehicleTrips	WD_TR	1.68	1.66
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	58,273,563.95	15,636,600.00
tblWater	IndoorWaterUseRate	46,250,000.00	4,004,659.00
tblWater	IndoorWaterUseRate	318,465,937.50	27,575,141.00
tblWater	OutdoorWaterUseRate	35,716,055.33	11,631,893.00
tblWater	OutdoorWaterUseRate	0.00	2,554,400.00
tblWater	OutdoorWaterUseRate	0.00	17,589,001.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

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	7.8679	2.3000e-004	0.0249	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0484	0.0484	1.3000e-004	0.0000	0.0515
Energy	0.0761	0.6914	0.5808	4.1500e-003		0.0526	0.0526		0.0526	0.0526	0.0000	4,096.3296	4,096.3296	0.2067	0.0536	4,117.4596
Mobile	1.9182	2.3111	24.6717	0.0686	7.6234	0.0417	7.6652	2.0258	0.0386	2.0643	0.0000	6,297.8091	6,297.8091	0.1926	0.0000	6,302.6250
Offroad	6.5631	60.9467	66.6576	0.0883		4.0373	4.0373		3.7143	3.7143	0.0000	7,758.6721	7,758.6721	2.5093	0.0000	7,821.4049
Waste						0.0000	0.0000		0.0000	0.0000	902.5405	0.0000	902.5405	53.3386	0.0000	2,236.0058
Water						0.0000	0.0000		0.0000	0.0000	16.7052	221.4489	238.1542	0.0702	0.0390	251.5207
Total	**16.4252**	**63.9494**	**91.9350**	**0.1611**	**7.6234**	**4.1317**	**11.7551**	**2.0258**	**3.8055**	**5.8313**	**919.2457**	**18,374.3080**	**19,293.5537**	**56.3176**	**0.0925**	**20,729.0674**

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	7.8679	2.3000e-004	0.0249	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0484	0.0484	1.3000e-004	0.0000	0.0515
Energy	0.0690	0.6273	0.5269	3.7600e-003		0.0477	0.0477		0.0477	0.0477	0.0000	3,907.8791	3,907.8791	0.1985	0.0509	3,928.0033
Mobile	1.9182	2.3111	24.6717	0.0686	7.6234	0.0417	7.6652	2.0258	0.0386	2.0643	0.0000	6,297.8091	6,297.8091	0.1926	0.0000	6,302.6250
Offroad	6.5631	60.9467	66.6576	0.0883		4.0373	4.0373		3.7143	3.7143	0.0000	7,758.6721	7,758.6721	2.5093	0.0000	7,821.4049
Waste						0.0000	0.0000		0.0000	0.0000	902.5405	0.0000	902.5405	53.3386	0.0000	2,236.0058
Water						0.0000	0.0000		0.0000	0.0000	13.3642	126.8756	140.2398	0.0533	0.0306	150.6825
Total	**16.4182**	**63.8853**	**91.8811**	**0.1607**	**7.6234**	**4.1268**	**11.7502**	**2.0258**	**3.8006**	**5.8264**	**915.9046**	**18,091.2842**	**19,007.1889**	**56.2925**	**0.0815**	**20,438.7729**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.04**	**0.10**	**0.06**	**0.24**	**0.00**	**0.12**	**0.04**	**0.00**	**0.13**	**0.08**	**0.36**	**1.54**	**1.48**	**0.04**	**11.97**	**1.40**

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	tons/yr										MT/yr					
Mitigated	1.9182	2.3111	24.6717	0.0686	7.6234	0.0417	7.6652	2.0258	0.0386	2.0643	0.0000	6,297.8091	6,297.8091	0.1926	0.0000	6,302.6250
Unmitigated	1.9182	2.3111	24.6717	0.0686	7.6234	0.0417	7.6652	2.0258	0.0386	2.0643	0.0000	6,297.8091	6,297.8091	0.1926	0.0000	6,302.6250

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Office Park	960.66	960.66	960.66	5,769,719	5,769,719
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	288.00	288.00	288.00	1,729,728	1,729,728
Unrefrigerated Warehouse-No Rail	2,286.07	1,831.61	1804.07	12,926,646	12,926,646
Total	3,534.73	3,080.27	3,052.73	20,426,093	20,426,093

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Office Park	16.50	8.40	6.90	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	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
Refrigerated Warehouse-No Rail	16.50	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No Rail	16.50	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.609014	0.040088	0.198507	0.128093	0.017799	0.000000	0.000000	0.000000	0.000000	0.000000	0.006500	0.000000	0.000000
Other Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Refrigerated Warehouse-No Rail	0.609014	0.040088	0.198507	0.128093	0.017799	0.000000	0.000000	0.000000	0.000000	0.000000	0.006500	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.609014	0.040088	0.198507	0.128093	0.017799	0.000000	0.000000	0.000000	0.000000	0.000000	0.006500	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	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	3,225.0090	3,225.0090	0.1854	0.0384	3,241.0752
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,343.6324	3,343.6324	0.1922	0.0398	3,360.2896
NaturalGas Mitigated	0.0690	0.6273	0.5269	3.7600e-003		0.0477	0.0477		0.0477	0.0477	0.0000	682.8702	682.8702	0.0131	0.0125	686.9281
NaturalGas Unmitigated	0.0761	0.6914	0.5808	4.1500e-003		0.0526	0.0526		0.0526	0.0526	0.0000	752.6972	752.6972	0.0144	0.0138	757.1701

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Office Park	957392	5.1600e-003	0.0469	0.0394	2.8000e-004		3.5700e-003	3.5700e-003		3.5700e-003	3.5700e-003	0.0000	51.0901	51.0901	9.8000e-004	9.4000e-004	51.3937
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Refrigerated Warehouse-No Rail	1.0352e+007	0.0558	0.5075	0.4263	3.0400e-003		0.0386	0.0386		0.0386	0.0386	0.0000	552.4221	552.4221	0.0106	0.0101	555.7049
Unrefrigerated Warehouse-No Rail	2.79562e+006	0.0151	0.1370	0.1151	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	149.1850	149.1850	2.8600e-003	2.7400e-003	150.0715
Total		**0.0761**	**0.6914**	**0.5808**	**4.1400e-003**		**0.0526**	**0.0526**		**0.0526**	**0.0526**	**0.0000**	**752.6972**	**752.6972**	**0.0144**	**0.0138**	**757.1701**

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					
Office Park	670174	3.6100e-003	0.0329	0.0276	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	35.7631	35.7631	6.9000e-004	6.6000e-004	35.9756
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Refrigerated Warehouse-No Rail	1.0157e+007	0.0548	0.4979	0.4182	2.9900e-003		0.0378	0.0378		0.0378	0.0378	0.0000	542.0162	542.0162	0.0104	9.9400e-003	545.2371
Unrefrigerated Warehouse-No Rail	1.96933e+006	0.0106	0.0965	0.0811	5.8000e-004		7.3400e-003	7.3400e-003		7.3400e-003	7.3400e-003	0.0000	105.0909	105.0909	2.0100e-003	1.9300e-003	105.7154
Total		**0.0690**	**0.6273**	**0.5269**	**3.7700e-003**		**0.0477**	**0.0477**		**0.0477**	**0.0477**	**0.0000**	**682.8701**	**682.8701**	**0.0131**	**0.0125**	**686.9281**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Office Park	3.24923e+006	743.4571	0.0427	8.8400e-003	747.1608
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	123818	28.3308	1.6300e-003	3.4000e-004	28.4720
Refrigerated Warehouse-No Rail	7.99e+006	1,828.1930	0.1051	0.0218	1,837.3006
Unrefrigerated Warehouse-No Rail	3.25008e+006	743.6515	0.0428	8.8500e-003	747.3562
Total		**3,343.6324**	**0.1922**	**0.0398**	**3,360.289**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Office Park	2.94726e+006	674.3628	0.0388	8.0200e-003	677.7223
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	123818	28.3308	1.6300e-003	3.4000e-004	28.4720
Refrigerated Warehouse-No Rail	7.9264e+006	1,813.6407	0.1043	0.0216	1,822.6758
Unrefrigerated Warehouse-No Rail	3.09722e+006	708.6747	0.0407	8.4300e-003	712.2051
Total		**3,225.0090**	**0.1854**	**0.0384**	**3,241.0752**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	7.8679	2.3000e-004	0.0249	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0484	0.0484	1.3000e-004	0.0000	0.0515
Unmitigated	7.8679	2.3000e-004	0.0249	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0484	0.0484	1.3000e-004	0.0000	0.0515

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	0.8879					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.9777					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.3200e-003	2.3000e-004	0.0249	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0484	0.0484	1.3000e-004	0.0000	0.0515
Total	**7.8679**	**2.3000e-004**	**0.0249**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**	**0.0000**	**0.0484**	**0.0484**	**1.3000e-004**	**0.0000**	**0.0515**

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	0.8879					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.9777					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.3200e-003	2.3000e-004	0.0249	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0484	0.0484	1.3000e-004	0.0000	0.0515
Total	**7.8679**	**2.3000e-004**	**0.0249**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**	**0.0000**	**0.0484**	**0.0484**	**1.3000e-004**	**0.0000**	**0.0515**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	140.2398	0.0533	0.0306	150.6825
Unmitigated	238.1542	0.0702	0.0390	251.5207

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Office Park	15.6366 / 11.6319	81.6882	0.0234	0.0129	86.1288
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	4.00466 / 2.5544	19.8416	5.9400e-003	3.3000e-003	20.9735
Unrefrigerated Warehouse-No Rail	27.5751 / 17.589	136.6244	0.0409	0.0227	144.4184
Total		**238.1542**	**0.0702**	**0.0390**	**251.5207**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Office Park	12.5093 / 2.06453	46.9434	0.0177	0.0101	50.4042
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	3.20373 / 0.453377	11.8310	4.5200e-003	2.5900e-003	12.7164
Unrefrigerated Warehouse-No Rail	22.0601 / 3.12185	81.4654	0.0311	0.0179	87.5619
Total		**140.2398**	**0.0533**	**0.0306**	**150.6825**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	902.5405	53.3386	0.0000	2,236.0058
Unmitigated	902.5405	53.3386	0.0000	2,236.0058

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Office Park	359.02	72.8778	4.3070	0.0000	180.5517
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	518.3	105.2102	6.2178	0.0000	260.6539
Unrefrigerated Warehouse-No Rail	3568.89	724.4524	42.8139	0.0000	1,794.8002
Total		**902.5405**	**53.3386**	**0.0000**	**2,236.005**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Office Park	359.02	72.8778	4.3070	0.0000	180.5517
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	518.3	105.2102	6.2178	0.0000	260.6539
Unrefrigerated Warehouse-No Rail	3568.89	724.4524	42.8139	0.0000	1,794.8002
Total		**902.5405**	**53.3386**	**0.0000**	**2,236.005**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	126	20.00	365	89	0.20	Diesel

UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Forklifts	6.5631	60.9467	66.6576	0.0883		4.0373	4.0373		3.7143	3.7143	0.0000	7,758.6721	7,758.6721	2.5093	0.0000	7,821.4049
Total	**6.5631**	**60.9467**	**66.6576**	**0.0883**		**4.0373**	**4.0373**		**3.7143**	**3.7143**	**0.0000**	**7,758.6721**	**7,758.6721**	**2.5093**	**0.0000**	**7,821.4049**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Operation_Main

San Bernardino-South Coast County, Mitigation Report

Operational Percent Reduction Summary

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
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55	3.55	3.54	3.57	3.55
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	9.27	9.28	9.28	8.94	9.28	9.28	0.00	9.28	9.28	9.29	9.27	9.28
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	42.71	41.11	24.11	21.56	40.09
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 Selected	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.17	0.43		
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			
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	
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
Yes	Exceed Title 24	30.00	
No	Install High Efficiency Lighting	0.00	
No	On-site Renewable	0.00	0.00

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	0.00	0.00
Yes	Use Reclaimed Water	0.00	100.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
Yes	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	
Yes	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
Yes	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

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

CalEEMod Output: Operation – Trucks

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Operation_Trucks

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	327.87	1000sqft	13.99	327,874.00	0
Refrigerated Warehouse-No Rail	200.00	1000sqft	13.99	200,000.00	0
Unrefrigerated Warehouse-No Rail	1,377.15	1000sqft	13.99	1,377,153.00	0
Other Asphalt Surfaces	25.21	Acre	25.21	1,098,198.00	0
Other Non-Asphalt Surfaces	9.71	Acre	9.71	0.00	0
Parking Lot	8.12	Acre	8.12	353,766.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	504.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See assumptions file in the AQ/GHG Appendix of the DEIR.

Land Use - See assumptions file in the AQ/GHG appendix of the DEIR.

Construction Phase -

Off-road Equipment - .

Vehicle Trips - Based on information provided by Urban Crossroads. See assumptions file in the AQ/GHG appendix of the DEIR for details.

Area Coating - For on-road truck emissions only.

Energy Use - For on-road truck emissions only.

Water And Wastewater - For on-road truck emissions only.

Solid Waste - For on-road truck emissions only.

Construction Off-road Equipment Mitigation - Assumes forklifts use for warehousing operations would be indoors and CNG-powered.

Energy Mitigation -

Water Mitigation -

Fleet Mix - See assumptions file in the AQ/GHG appendix of the DEIR for details.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	952512	0
tblAreaCoating	Area_Nonresidential_Interior	2857536	0
tblAreaCoating	Area_Parking	87118	0
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblEnergyUse	LightingElect	4.24	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	2.60	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	3.07	0.00

tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	2.92	0.00
tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblFleetMix	HHD	0.06	0.63
tblFleetMix	HHD	0.06	0.54
tblFleetMix	HHD	0.06	0.58
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.1010e-003	0.08
tblFleetMix	LHD2	5.1010e-003	0.10
tblFleetMix	LHD2	5.1010e-003	0.09
tblFleetMix	MCY	5.9030e-003	0.00
tblFleetMix	MCY	5.9030e-003	0.00
tblFleetMix	MCY	5.9030e-003	0.00
tblFleetMix	MDV	0.12	0.00

tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.4400e-004	0.00
tblFleetMix	MH	9.4400e-004	0.00
tblFleetMix	MH	9.4400e-004	0.00
tblFleetMix	MHD	0.02	0.29
tblFleetMix	MHD	0.02	0.36
tblFleetMix	MHD	0.02	0.33
tblFleetMix	OBUS	1.3570e-003	0.00
tblFleetMix	OBUS	1.3570e-003	0.00
tblFleetMix	OBUS	1.3570e-003	0.00
tblFleetMix	SBUS	8.0800e-004	0.00
tblFleetMix	SBUS	8.0800e-004	0.00
tblFleetMix	SBUS	8.0800e-004	0.00
tblFleetMix	UBUS	1.5650e-003	0.00
tblFleetMix	UBUS	1.5650e-003	0.00
tblFleetMix	UBUS	1.5650e-003	0.00
tblLandUse	LandUseSquareFeet	327,870.00	327,874.00
tblLandUse	LandUseSquareFeet	1,377,150.00	1,377,153.00
tblLandUse	LandUseSquareFeet	1,098,147.60	1,098,198.00
tblLandUse	LandUseSquareFeet	422,967.60	0.00
tblLandUse	LandUseSquareFeet	353,707.20	353,766.00
tblLandUse	LotAcreage	7.53	13.99
tblLandUse	LotAcreage	4.59	13.99
tblLandUse	LotAcreage	31.62	13.99
tblProjectCharacteristics	CO2IntensityFactor	702.44	504.44
tblSolidWaste	SolidWasteGenerationRate	304.92	0.00

tblSolidWaste	SolidWasteGenerationRate	188.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,294.52	0.00
tblVehicleEF	HHD	1.21	0.03
tblVehicleEF	HHD	0.04	0.14
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	3.29	5.95
tblVehicleEF	HHD	0.57	0.67
tblVehicleEF	HHD	1.82	3.7880e-003
tblVehicleEF	HHD	6,933.41	1,124.17
tblVehicleEF	HHD	1,475.79	1,484.27
tblVehicleEF	HHD	5.54	0.03
tblVehicleEF	HHD	26.50	6.08
tblVehicleEF	HHD	2.50	3.42
tblVehicleEF	HHD	20.21	2.10
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tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
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tblVehicleEF	HHD	8.8810e-003	8.8310e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.5000e-005	5.0000e-006
tblVehicleEF	HHD	3.1910e-003	1.6000e-004
tblVehicleEF	HHD	0.84	0.43

tblVehicleEF	HHD	5.2000e-005	3.0000e-006
tblVehicleEF	HHD	0.08	0.08
tblVehicleEF	HHD	2.1700e-004	7.9100e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	5.0000e-006
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tblVehicleEF	HHD	5.2000e-005	3.0000e-006
tblVehicleEF	HHD	0.13	0.23
tblVehicleEF	HHD	2.1700e-004	7.9100e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.14	0.03
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tblVehicleEF	HHD	27.35	5.90
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tblVehicleEF	HHD	8.2750e-003	3.1750e-003

tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
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tblVehicleEF	HHD	8.8810e-003	8.8310e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	1.6800e-004	1.0000e-005
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tblVehicleEF	HHD	0.08	0.08
tblVehicleEF	HHD	2.2100e-004	8.1200e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01
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tblVehicleEF	HHD	8.4000e-005	0.00
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tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.01	0.03
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tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.6000e-003
tblVehicleEF	HHD	0.01	0.03
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tblVehicleEF	HHD	5.2000e-005	3.0000e-006
tblVehicleEF	HHD	0.08	0.07
tblVehicleEF	HHD	2.3300e-004	8.2900e-004

tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.5000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	5.0000e-006
tblVehicleEF	HHD	3.4760e-003	1.8700e-004
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tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	9.5370e-003

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tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.24
tblVehicleEF	LDA	4.7900e-003	2.8350e-003
tblVehicleEF	LDA	4.6890e-003	0.04
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tblVehicleEF	LDA	0.07	0.17
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tblVehicleEF	LDA	0.12	0.11
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.21

tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	2.7550e-003	2.8220e-003
tblVehicleEF	LDA	5.8800e-004	5.2600e-004
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tblVehicleEF	LDA	0.12	0.11
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.02	0.02
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tblVehicleEF	LDA	57.15	53.78
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tblVehicleEF	LDA	0.08	0.18
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tblVehicleEF	LDA	2.2790e-003	1.8540e-003
tblVehicleEF	LDA	1.5460e-003	1.3980e-003
tblVehicleEF	LDA	2.0960e-003	1.7050e-003
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	9.3400e-003
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.22

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tblVehicleEF	LDA	5.9100e-004	5.3200e-004
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.24
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tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.54	1.52
tblVehicleEF	LDT1	3.61	2.38
tblVehicleEF	LDT1	313.68	312.60
tblVehicleEF	LDT1	70.93	65.27
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	0.22	0.30
tblVehicleEF	LDT1	2.7050e-003	2.3390e-003
tblVehicleEF	LDT1	3.6920e-003	2.8340e-003
tblVehicleEF	LDT1	2.4910e-003	2.1530e-003
tblVehicleEF	LDT1	3.3960e-003	2.6050e-003
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.20	0.86
tblVehicleEF	LDT1	0.26	0.42
tblVehicleEF	LDT1	3.1570e-003	3.0930e-003

tblVehicleEF	LDT1	7.7300e-004	6.4600e-004
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.86
tblVehicleEF	LDT1	0.28	0.47
tblVehicleEF	LDT1	0.02	8.4640e-003
tblVehicleEF	LDT1	0.02	0.07
tblVehicleEF	LDT1	1.85	1.80
tblVehicleEF	LDT1	2.97	2.00
tblVehicleEF	LDT1	341.75	335.30
tblVehicleEF	LDT1	70.93	64.45
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.20	0.28
tblVehicleEF	LDT1	2.7050e-003	2.3390e-003
tblVehicleEF	LDT1	3.6920e-003	2.8340e-003
tblVehicleEF	LDT1	2.4910e-003	2.1530e-003
tblVehicleEF	LDT1	3.3960e-003	2.6050e-003
tblVehicleEF	LDT1	0.37	0.36
tblVehicleEF	LDT1	0.41	0.31
tblVehicleEF	LDT1	0.27	0.26
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.20	0.85
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	3.4420e-003	3.3180e-003
tblVehicleEF	LDT1	7.6200e-004	6.3800e-004

tblVehicleEF	LDT1	0.37	0.36
tblVehicleEF	LDT1	0.41	0.31
tblVehicleEF	LDT1	0.27	0.26
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.85
tblVehicleEF	LDT1	0.23	0.40
tblVehicleEF	LDT1	0.01	7.4310e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.47	1.46
tblVehicleEF	LDT1	3.55	2.39
tblVehicleEF	LDT1	307.06	308.38
tblVehicleEF	LDT1	70.93	65.29
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	0.21	0.29
tblVehicleEF	LDT1	2.7050e-003	2.3390e-003
tblVehicleEF	LDT1	3.6920e-003	2.8340e-003
tblVehicleEF	LDT1	2.4910e-003	2.1530e-003
tblVehicleEF	LDT1	3.3960e-003	2.6050e-003
tblVehicleEF	LDT1	0.19	0.19
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.00
tblVehicleEF	LDT1	0.25	0.43
tblVehicleEF	LDT1	3.0890e-003	3.0520e-003
tblVehicleEF	LDT1	7.7200e-004	6.4600e-004
tblVehicleEF	LDT1	0.19	0.19

tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.23	1.00
tblVehicleEF	LDT1	0.28	0.47
tblVehicleEF	LDT2	6.3270e-003	4.4090e-003
tblVehicleEF	LDT2	8.1990e-003	0.07
tblVehicleEF	LDT2	0.80	1.00
tblVehicleEF	LDT2	1.67	2.71
tblVehicleEF	LDT2	351.15	333.43
tblVehicleEF	LDT2	79.39	69.80
tblVehicleEF	LDT2	0.09	0.09
tblVehicleEF	LDT2	0.14	0.30
tblVehicleEF	LDT2	1.7270e-003	1.5990e-003
tblVehicleEF	LDT2	2.4170e-003	1.9200e-003
tblVehicleEF	LDT2	1.5880e-003	1.4710e-003
tblVehicleEF	LDT2	2.2220e-003	1.7660e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.11	0.33
tblVehicleEF	LDT2	3.5180e-003	3.2990e-003
tblVehicleEF	LDT2	8.2200e-004	6.9100e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.14

tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.12	0.36
tblVehicleEF	LDT2	7.1840e-003	4.9540e-003
tblVehicleEF	LDT2	6.8290e-003	0.06
tblVehicleEF	LDT2	0.97	1.19
tblVehicleEF	LDT2	1.38	2.27
tblVehicleEF	LDT2	383.36	355.41
tblVehicleEF	LDT2	79.39	68.95
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.13	0.28
tblVehicleEF	LDT2	1.7270e-003	1.5990e-003
tblVehicleEF	LDT2	2.4170e-003	1.9200e-003
tblVehicleEF	LDT2	1.5880e-003	1.4710e-003
tblVehicleEF	LDT2	2.2220e-003	1.7660e-003
tblVehicleEF	LDT2	0.13	0.18
tblVehicleEF	LDT2	0.15	0.16
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.8420e-003	3.5160e-003
tblVehicleEF	LDT2	8.1700e-004	6.8200e-004
tblVehicleEF	LDT2	0.13	0.18
tblVehicleEF	LDT2	0.15	0.16
tblVehicleEF	LDT2	0.11	0.15

tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	6.1560e-003	4.3220e-003
tblVehicleEF	LDT2	8.1410e-003	0.07
tblVehicleEF	LDT2	0.75	0.96
tblVehicleEF	LDT2	1.64	2.72
tblVehicleEF	LDT2	343.55	329.34
tblVehicleEF	LDT2	79.39	69.82
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.14	0.30
tblVehicleEF	LDT2	1.7270e-003	1.5990e-003
tblVehicleEF	LDT2	2.4170e-003	1.9200e-003
tblVehicleEF	LDT2	1.5880e-003	1.4710e-003
tblVehicleEF	LDT2	2.2220e-003	1.7660e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.52
tblVehicleEF	LDT2	0.11	0.33
tblVehicleEF	LDT2	3.4410e-003	3.2580e-003
tblVehicleEF	LDT2	8.2200e-004	6.9100e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03

tblVehicleEF	LDT2	0.08	0.52
tblVehicleEF	LDT2	0.12	0.37
tblVehicleEF	LHD1	5.2170e-003	5.0850e-003
tblVehicleEF	LHD1	0.01	6.1020e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.07	0.75
tblVehicleEF	LHD1	2.60	1.03
tblVehicleEF	LHD1	9.23	9.25
tblVehicleEF	LHD1	609.20	652.45
tblVehicleEF	LHD1	30.40	11.21
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	2.12	1.25
tblVehicleEF	LHD1	0.99	0.32
tblVehicleEF	LHD1	9.6500e-004	8.9000e-004
tblVehicleEF	LHD1	0.01	9.8770e-003
tblVehicleEF	LHD1	0.01	9.8260e-003
tblVehicleEF	LHD1	9.5800e-004	2.6000e-004
tblVehicleEF	LHD1	9.2400e-004	8.5100e-004
tblVehicleEF	LHD1	2.5390e-003	2.4690e-003
tblVehicleEF	LHD1	0.01	9.3750e-003
tblVehicleEF	LHD1	8.8100e-004	2.3900e-004
tblVehicleEF	LHD1	3.7070e-003	3.0390e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8240e-003	1.5810e-003
tblVehicleEF	LHD1	0.08	0.06

tblVehicleEF	LHD1	0.35	0.55
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3570e-003
tblVehicleEF	LHD1	3.5300e-004	1.1100e-004
tblVehicleEF	LHD1	3.7070e-003	3.0390e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8240e-003	1.5810e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.35	0.55
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.2170e-003	5.0990e-003
tblVehicleEF	LHD1	0.01	6.2280e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.09	0.76
tblVehicleEF	LHD1	2.43	0.98
tblVehicleEF	LHD1	9.23	9.25
tblVehicleEF	LHD1	609.20	652.47
tblVehicleEF	LHD1	30.40	11.12
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.98	1.17
tblVehicleEF	LHD1	0.94	0.31
tblVehicleEF	LHD1	9.6500e-004	8.9000e-004
tblVehicleEF	LHD1	0.01	9.8770e-003
tblVehicleEF	LHD1	0.01	9.8260e-003

tblVehicleEF	LHD1	9.5800e-004	2.6000e-004
tblVehicleEF	LHD1	9.2400e-004	8.5100e-004
tblVehicleEF	LHD1	2.5390e-003	2.4690e-003
tblVehicleEF	LHD1	0.01	9.3750e-003
tblVehicleEF	LHD1	8.8100e-004	2.3900e-004
tblVehicleEF	LHD1	7.3080e-003	5.4780e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.1220e-003	3.0450e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.36	0.56
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9770e-003	6.3570e-003
tblVehicleEF	LHD1	3.5000e-004	1.1000e-004
tblVehicleEF	LHD1	7.3080e-003	5.4780e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.1220e-003	3.0450e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.36	0.56
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.2170e-003	5.0870e-003
tblVehicleEF	LHD1	0.01	6.1100e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.07	0.75

tblVehicleEF	LHD1	2.55	1.02
tblVehicleEF	LHD1	9.23	9.25
tblVehicleEF	LHD1	609.20	652.45
tblVehicleEF	LHD1	30.40	11.20
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	2.08	1.23
tblVehicleEF	LHD1	0.97	0.31
tblVehicleEF	LHD1	9.6500e-004	8.9000e-004
tblVehicleEF	LHD1	0.01	9.8770e-003
tblVehicleEF	LHD1	0.01	9.8260e-003
tblVehicleEF	LHD1	9.5800e-004	2.6000e-004
tblVehicleEF	LHD1	9.2400e-004	8.5100e-004
tblVehicleEF	LHD1	2.5390e-003	2.4690e-003
tblVehicleEF	LHD1	0.01	9.3750e-003
tblVehicleEF	LHD1	8.8100e-004	2.3900e-004
tblVehicleEF	LHD1	4.0430e-003	3.1520e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7940e-003	1.6100e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.60
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3570e-003
tblVehicleEF	LHD1	3.5200e-004	1.1100e-004
tblVehicleEF	LHD1	4.0430e-003	3.1520e-003
tblVehicleEF	LHD1	0.13	0.10

tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7940e-003	1.6100e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.38	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	3.5950e-003	3.6950e-003
tblVehicleEF	LHD2	4.6110e-003	4.1040e-003
tblVehicleEF	LHD2	8.1370e-003	0.01
tblVehicleEF	LHD2	0.12	0.15
tblVehicleEF	LHD2	0.50	0.50
tblVehicleEF	LHD2	1.20	0.67
tblVehicleEF	LHD2	14.27	14.14
tblVehicleEF	LHD2	608.52	665.25
tblVehicleEF	LHD2	24.46	8.76
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.49	1.36
tblVehicleEF	LHD2	0.53	0.22
tblVehicleEF	LHD2	1.2830e-003	1.3100e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.3700e-004
tblVehicleEF	LHD2	1.2280e-003	1.2540e-003
tblVehicleEF	LHD2	2.6860e-003	2.6560e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.2600e-004
tblVehicleEF	LHD2	1.3070e-003	1.7040e-003
tblVehicleEF	LHD2	0.04	0.05

tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.0300e-004	9.2000e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.9200e-003	6.4300e-003
tblVehicleEF	LHD2	2.6700e-004	8.7000e-005
tblVehicleEF	LHD2	1.3070e-003	1.7040e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0300e-004	9.2000e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	3.5950e-003	3.7050e-003
tblVehicleEF	LHD2	4.6760e-003	4.1460e-003
tblVehicleEF	LHD2	7.7630e-003	0.01
tblVehicleEF	LHD2	0.12	0.15
tblVehicleEF	LHD2	0.50	0.50
tblVehicleEF	LHD2	1.13	0.64
tblVehicleEF	LHD2	14.27	14.14
tblVehicleEF	LHD2	608.52	665.25
tblVehicleEF	LHD2	24.46	8.70
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.40	1.28
tblVehicleEF	LHD2	0.50	0.21

tblVehicleEF	LHD2	1.2830e-003	1.3100e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.3700e-004
tblVehicleEF	LHD2	1.2280e-003	1.2540e-003
tblVehicleEF	LHD2	2.6860e-003	2.6560e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.2600e-004
tblVehicleEF	LHD2	2.5220e-003	3.0730e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7630e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.9200e-003	6.4300e-003
tblVehicleEF	LHD2	2.6500e-004	8.6000e-005
tblVehicleEF	LHD2	2.5220e-003	3.0730e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7630e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.5950e-003	3.6960e-003
tblVehicleEF	LHD2	4.6180e-003	4.1080e-003

tblVehicleEF	LHD2	8.0640e-003	0.01
tblVehicleEF	LHD2	0.12	0.15
tblVehicleEF	LHD2	0.50	0.50
tblVehicleEF	LHD2	1.19	0.67
tblVehicleEF	LHD2	14.27	14.14
tblVehicleEF	LHD2	608.52	665.25
tblVehicleEF	LHD2	24.46	8.75
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.46	1.33
tblVehicleEF	LHD2	0.52	0.22
tblVehicleEF	LHD2	1.2830e-003	1.3100e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.3700e-004
tblVehicleEF	LHD2	1.2280e-003	1.2540e-003
tblVehicleEF	LHD2	2.6860e-003	2.6560e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.2600e-004
tblVehicleEF	LHD2	1.3460e-003	1.7140e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.8700e-004	9.2200e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.10	0.34
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.9200e-003	6.4300e-003

tblVehicleEF	LHD2	2.6600e-004	8.7000e-005
tblVehicleEF	LHD2	1.3460e-003	1.7140e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.8700e-004	9.2200e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.10	0.34
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	20.55	19.26
tblVehicleEF	MCY	9.93	8.60
tblVehicleEF	MCY	167.73	212.03
tblVehicleEF	MCY	46.45	60.73
tblVehicleEF	MCY	1.16	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8610e-003	1.9650e-003
tblVehicleEF	MCY	3.6730e-003	2.9600e-003
tblVehicleEF	MCY	1.7420e-003	1.8380e-003
tblVehicleEF	MCY	3.4650e-003	2.7870e-003
tblVehicleEF	MCY	1.45	1.42
tblVehicleEF	MCY	0.84	0.80
tblVehicleEF	MCY	0.80	0.78
tblVehicleEF	MCY	2.23	2.33
tblVehicleEF	MCY	0.49	1.91
tblVehicleEF	MCY	2.16	1.84
tblVehicleEF	MCY	2.0770e-003	2.0980e-003

tblVehicleEF	MCY	6.9000e-004	6.0100e-004
tblVehicleEF	MCY	1.45	1.42
tblVehicleEF	MCY	0.84	0.80
tblVehicleEF	MCY	0.80	0.78
tblVehicleEF	MCY	2.74	2.87
tblVehicleEF	MCY	0.49	1.91
tblVehicleEF	MCY	2.35	2.01
tblVehicleEF	MCY	0.42	0.34
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	20.68	19.28
tblVehicleEF	MCY	9.05	7.90
tblVehicleEF	MCY	167.73	211.90
tblVehicleEF	MCY	46.45	58.88
tblVehicleEF	MCY	0.99	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8610e-003	1.9650e-003
tblVehicleEF	MCY	3.6730e-003	2.9600e-003
tblVehicleEF	MCY	1.7420e-003	1.8380e-003
tblVehicleEF	MCY	3.4650e-003	2.7870e-003
tblVehicleEF	MCY	3.14	2.77
tblVehicleEF	MCY	1.27	1.11
tblVehicleEF	MCY	2.13	1.77
tblVehicleEF	MCY	2.17	2.28
tblVehicleEF	MCY	0.49	1.88
tblVehicleEF	MCY	1.86	1.62
tblVehicleEF	MCY	2.0770e-003	2.0970e-003
tblVehicleEF	MCY	6.6700e-004	5.8300e-004

tblVehicleEF	MCY	3.14	2.77
tblVehicleEF	MCY	1.27	1.11
tblVehicleEF	MCY	2.13	1.77
tblVehicleEF	MCY	2.67	2.81
tblVehicleEF	MCY	0.49	1.88
tblVehicleEF	MCY	2.02	1.76
tblVehicleEF	MCY	0.42	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.63	18.76
tblVehicleEF	MCY	9.55	8.44
tblVehicleEF	MCY	167.73	211.17
tblVehicleEF	MCY	46.45	60.38
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8610e-003	1.9650e-003
tblVehicleEF	MCY	3.6730e-003	2.9600e-003
tblVehicleEF	MCY	1.7420e-003	1.8380e-003
tblVehicleEF	MCY	3.4650e-003	2.7870e-003
tblVehicleEF	MCY	1.71	1.57
tblVehicleEF	MCY	1.13	1.06
tblVehicleEF	MCY	0.72	0.74
tblVehicleEF	MCY	2.19	2.31
tblVehicleEF	MCY	0.56	2.18
tblVehicleEF	MCY	2.08	1.81
tblVehicleEF	MCY	2.0610e-003	2.0900e-003
tblVehicleEF	MCY	6.8200e-004	5.9800e-004
tblVehicleEF	MCY	1.71	1.57

tblVehicleEF	MCY	1.13	1.06
tblVehicleEF	MCY	0.72	0.74
tblVehicleEF	MCY	2.69	2.84
tblVehicleEF	MCY	0.56	2.18
tblVehicleEF	MCY	2.27	1.98
tblVehicleEF	MDV	0.01	5.5200e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.35	1.13
tblVehicleEF	MDV	3.25	3.24
tblVehicleEF	MDV	483.94	412.47
tblVehicleEF	MDV	107.92	86.76
tblVehicleEF	MDV	0.17	0.11
tblVehicleEF	MDV	0.32	0.38
tblVehicleEF	MDV	1.8260e-003	1.6820e-003
tblVehicleEF	MDV	2.5170e-003	2.0280e-003
tblVehicleEF	MDV	1.6830e-003	1.5510e-003
tblVehicleEF	MDV	2.3150e-003	1.8650e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MDV	4.8500e-003	4.0780e-003
tblVehicleEF	MDV	1.1370e-003	8.5900e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.17

tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.28	0.48
tblVehicleEF	MDV	0.01	6.2110e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.64	1.35
tblVehicleEF	MDV	2.69	2.71
tblVehicleEF	MDV	526.85	435.67
tblVehicleEF	MDV	107.92	85.71
tblVehicleEF	MDV	0.16	0.10
tblVehicleEF	MDV	0.30	0.35
tblVehicleEF	MDV	1.8260e-003	1.6820e-003
tblVehicleEF	MDV	2.5170e-003	2.0280e-003
tblVehicleEF	MDV	1.6830e-003	1.5510e-003
tblVehicleEF	MDV	2.3150e-003	1.8650e-003
tblVehicleEF	MDV	0.20	0.21
tblVehicleEF	MDV	0.23	0.19
tblVehicleEF	MDV	0.17	0.19
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.49
tblVehicleEF	MDV	0.21	0.38
tblVehicleEF	MDV	5.2830e-003	4.3080e-003
tblVehicleEF	MDV	1.1260e-003	8.4800e-004
tblVehicleEF	MDV	0.20	0.21
tblVehicleEF	MDV	0.23	0.19
tblVehicleEF	MDV	0.17	0.19

tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.49
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	0.01	5.4050e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.28	1.09
tblVehicleEF	MDV	3.20	3.25
tblVehicleEF	MDV	473.93	408.15
tblVehicleEF	MDV	107.92	86.78
tblVehicleEF	MDV	0.16	0.10
tblVehicleEF	MDV	0.32	0.38
tblVehicleEF	MDV	1.8260e-003	1.6820e-003
tblVehicleEF	MDV	2.5170e-003	2.0280e-003
tblVehicleEF	MDV	1.6830e-003	1.5510e-003
tblVehicleEF	MDV	2.3150e-003	1.8650e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.57
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MDV	4.7490e-003	4.0360e-003
tblVehicleEF	MDV	1.1360e-003	8.5900e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03

tblVehicleEF	MDV	0.13	0.57
tblVehicleEF	MDV	0.27	0.48
tblVehicleEF	MH	0.04	3.6580e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.07	0.35
tblVehicleEF	MH	6.43	0.00
tblVehicleEF	MH	1,045.05	970.21
tblVehicleEF	MH	59.49	0.00
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tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.0790e-003	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	9.1720e-003
tblVehicleEF	MH	7.0700e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00

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tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.04	3.6580e-003
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tblVehicleEF	MH	0.04	0.11
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tblVehicleEF	MH	0.11	0.00
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tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
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tblVehicleEF	MH	0.01	9.1720e-003
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tblVehicleEF	MH	0.11	0.00

tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.04	3.6580e-003
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tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
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tblVehicleEF	MH	1.0790e-003	0.00
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tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	9.1720e-003
tblVehicleEF	MH	7.0600e-004	0.00
tblVehicleEF	MH	1.75	0.00

tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
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tblVehicleEF	MHD	3.8600e-004	1.2310e-003
tblVehicleEF	MHD	5.0030e-003	0.04
tblVehicleEF	MHD	7.6400e-004	7.5000e-005
tblVehicleEF	MHD	3.6900e-004	1.1780e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	6.9000e-005
tblVehicleEF	MHD	1.2800e-003	4.5300e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.5100e-004	2.4000e-004

tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.03
tblVehicleEF	MHD	1.5080e-003	6.5300e-004
tblVehicleEF	MHD	0.01	9.2620e-003
tblVehicleEF	MHD	6.1700e-004	6.3000e-005
tblVehicleEF	MHD	1.2800e-003	4.5300e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.5100e-004	2.4000e-004
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tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	MHD	0.02	2.3860e-003
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tblVehicleEF	MHD	0.92	1.52
tblVehicleEF	MHD	11.85	1.49
tblVehicleEF	MHD	3.2500e-004	1.0410e-003
tblVehicleEF	MHD	5.0030e-003	0.04

tblVehicleEF	MHD	7.6400e-004	7.5000e-005
tblVehicleEF	MHD	3.1100e-004	9.9600e-004
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	6.9000e-005
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tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5010e-003	4.7800e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.30	0.03
tblVehicleEF	MHD	1.5950e-003	6.5900e-004
tblVehicleEF	MHD	0.01	9.2620e-003
tblVehicleEF	MHD	6.1100e-004	6.2000e-005
tblVehicleEF	MHD	2.5300e-003	8.2800e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5010e-003	4.7800e-004
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	0.02	2.6830e-003
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tblVehicleEF	MHD	0.05	6.4200e-003
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tblVehicleEF	MHD	0.97	1.59
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tblVehicleEF	MHD	4.7000e-004	1.4940e-003
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tblVehicleEF	MHD	7.6400e-004	7.5000e-005
tblVehicleEF	MHD	4.4900e-004	1.4300e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	6.9000e-005
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tblVehicleEF	MHD	0.05	0.02
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tblVehicleEF	MHD	6.4000e-004	2.4400e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.32	0.03
tblVehicleEF	MHD	1.3860e-003	6.4400e-004
tblVehicleEF	MHD	0.01	9.2620e-003
tblVehicleEF	MHD	6.1600e-004	6.3000e-005
tblVehicleEF	MHD	1.3890e-003	4.7100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.4000e-004	2.4400e-004
tblVehicleEF	MHD	0.04	0.07

tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.35	0.04
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tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.52
tblVehicleEF	OBUS	0.63	0.77
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tblVehicleEF	OBUS	0.97	1.24
tblVehicleEF	OBUS	1.93	0.68
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tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.1800e-004
tblVehicleEF	OBUS	6.1000e-005	5.6400e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.0100e-004
tblVehicleEF	OBUS	2.1800e-003	2.6020e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.3100e-004	1.1160e-003
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12

tblVehicleEF	OBUS	6.8400e-004	7.2500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1700e-004	2.0300e-004
tblVehicleEF	OBUS	2.1800e-003	2.6020e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.3100e-004	1.1160e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.42	0.13
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tblVehicleEF	OBUS	0.03	0.02
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tblVehicleEF	OBUS	5.4000e-005	5.0100e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.1800e-004
tblVehicleEF	OBUS	5.1000e-005	4.7900e-004
tblVehicleEF	OBUS	4.4220e-003	0.01

tblVehicleEF	OBUS	8.5400e-004	2.0100e-004
tblVehicleEF	OBUS	4.2350e-003	4.6860e-003
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tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.11
tblVehicleEF	OBUS	7.1400e-004	7.2400e-004
tblVehicleEF	OBUS	0.01	0.01
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tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	2.1330e-003	2.2090e-003
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tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.40	0.12
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tblVehicleEF	OBUS	0.28	0.53
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tblVehicleEF	OBUS	1.91	0.68
tblVehicleEF	OBUS	7.7000e-005	7.1200e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.1800e-004
tblVehicleEF	OBUS	7.4000e-005	6.8100e-004
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tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.4100e-004	1.1650e-003
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tblVehicleEF	OBUS	0.05	0.30
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	6.4200e-004	7.2700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1600e-004	2.0300e-004
tblVehicleEF	OBUS	2.3200e-003	2.7390e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.4100e-004	1.1650e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.30
tblVehicleEF	OBUS	0.42	0.13
tblVehicleEF	SBUS	0.84	0.06

tblVehicleEF	SBUS	0.01	8.5840e-003
tblVehicleEF	SBUS	0.07	6.1570e-003
tblVehicleEF	SBUS	5.71	2.50
tblVehicleEF	SBUS	0.65	0.78
tblVehicleEF	SBUS	5.33	0.82
tblVehicleEF	SBUS	1,258.13	345.06
tblVehicleEF	SBUS	1,136.31	1,112.17
tblVehicleEF	SBUS	37.11	4.79
tblVehicleEF	SBUS	11.70	3.29
tblVehicleEF	SBUS	4.77	5.20
tblVehicleEF	SBUS	15.02	0.91
tblVehicleEF	SBUS	0.01	4.3580e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	4.1690e-003
tblVehicleEF	SBUS	2.7560e-003	2.7010e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	3.6000e-005
tblVehicleEF	SBUS	2.9260e-003	1.2420e-003
tblVehicleEF	SBUS	0.02	9.5120e-003
tblVehicleEF	SBUS	0.68	0.28
tblVehicleEF	SBUS	1.3050e-003	5.9000e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	9.3510e-003	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.2890e-003

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6300e-004	4.7000e-005
tblVehicleEF	SBUS	2.9260e-003	1.2420e-003
tblVehicleEF	SBUS	0.02	9.5120e-003
tblVehicleEF	SBUS	0.97	0.40
tblVehicleEF	SBUS	1.3050e-003	5.9000e-004
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	9.3510e-003	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	0.01	8.7140e-003
tblVehicleEF	SBUS	0.06	5.1550e-003
tblVehicleEF	SBUS	5.56	2.47
tblVehicleEF	SBUS	0.66	0.80
tblVehicleEF	SBUS	3.65	0.60
tblVehicleEF	SBUS	1,322.00	352.98
tblVehicleEF	SBUS	1,136.31	1,112.20
tblVehicleEF	SBUS	37.11	4.41
tblVehicleEF	SBUS	12.08	3.36
tblVehicleEF	SBUS	4.47	4.88
tblVehicleEF	SBUS	14.99	0.90
tblVehicleEF	SBUS	0.01	3.6810e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	4.0000e-005
tblVehicleEF	SBUS	9.6490e-003	3.5220e-003
tblVehicleEF	SBUS	2.7560e-003	2.7010e-003

tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	3.6000e-005
tblVehicleEF	SBUS	5.6170e-003	2.2080e-003
tblVehicleEF	SBUS	0.02	9.9850e-003
tblVehicleEF	SBUS	0.67	0.28
tblVehicleEF	SBUS	2.8800e-003	1.1130e-003
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	8.5310e-003	0.06
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3630e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.3500e-004	4.4000e-005
tblVehicleEF	SBUS	5.6170e-003	2.2080e-003
tblVehicleEF	SBUS	0.02	9.9850e-003
tblVehicleEF	SBUS	0.97	0.40
tblVehicleEF	SBUS	2.8800e-003	1.1130e-003
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	8.5310e-003	0.06
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	0.01	8.5760e-003
tblVehicleEF	SBUS	0.07	6.3440e-003
tblVehicleEF	SBUS	5.91	2.56
tblVehicleEF	SBUS	0.65	0.78
tblVehicleEF	SBUS	5.37	0.86
tblVehicleEF	SBUS	1,169.92	334.13
tblVehicleEF	SBUS	1,136.31	1,112.17

tblVehicleEF	SBUS	37.11	4.85
tblVehicleEF	SBUS	11.19	3.19
tblVehicleEF	SBUS	4.69	5.12
tblVehicleEF	SBUS	15.02	0.91
tblVehicleEF	SBUS	0.01	5.2920e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	5.0630e-003
tblVehicleEF	SBUS	2.7560e-003	2.7010e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	3.6000e-005
tblVehicleEF	SBUS	2.9580e-003	1.2070e-003
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.68	0.28
tblVehicleEF	SBUS	1.2820e-003	6.0100e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.08
tblVehicleEF	SBUS	0.28	0.04
tblVehicleEF	SBUS	0.01	3.1850e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6400e-004	4.8000e-005
tblVehicleEF	SBUS	2.9580e-003	1.2070e-003
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.98	0.40
tblVehicleEF	SBUS	1.2820e-003	6.0100e-004
tblVehicleEF	SBUS	0.13	0.13

tblVehicleEF	SBUS	0.01	0.08
tblVehicleEF	SBUS	0.31	0.04
tblVehicleEF	UBUS	1.83	4.45
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	9.26	34.75
tblVehicleEF	UBUS	14.34	0.89
tblVehicleEF	UBUS	1,846.39	1,692.13
tblVehicleEF	UBUS	136.37	11.77
tblVehicleEF	UBUS	5.87	0.38
tblVehicleEF	UBUS	13.57	0.14
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6550e-003
tblVehicleEF	UBUS	1.4030e-003	1.4100e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5280e-003
tblVehicleEF	UBUS	1.2900e-003	1.3000e-004
tblVehicleEF	UBUS	8.0860e-003	1.6780e-003
tblVehicleEF	UBUS	0.11	9.5390e-003
tblVehicleEF	UBUS	3.9450e-003	7.3700e-004
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.15	0.04
tblVehicleEF	UBUS	0.01	3.0250e-003
tblVehicleEF	UBUS	1.6240e-003	1.1700e-004
tblVehicleEF	UBUS	8.0860e-003	1.6780e-003

tblVehicleEF	UBUS	0.11	9.5390e-003
tblVehicleEF	UBUS	3.9450e-003	7.3700e-004
tblVehicleEF	UBUS	2.50	4.54
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.25	0.04
tblVehicleEF	UBUS	1.83	4.45
tblVehicleEF	UBUS	0.08	9.2350e-003
tblVehicleEF	UBUS	9.36	34.75
tblVehicleEF	UBUS	11.74	0.76
tblVehicleEF	UBUS	1,846.39	1,692.13
tblVehicleEF	UBUS	136.37	11.55
tblVehicleEF	UBUS	5.45	0.38
tblVehicleEF	UBUS	13.45	0.13
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6550e-003
tblVehicleEF	UBUS	1.4030e-003	1.4100e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5280e-003
tblVehicleEF	UBUS	1.2900e-003	1.3000e-004
tblVehicleEF	UBUS	0.02	3.0610e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4840e-003
tblVehicleEF	UBUS	0.62	0.07
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.02	0.03

tblVehicleEF	UBUS	0.01	3.0250e-003
tblVehicleEF	UBUS	1.5790e-003	1.1400e-004
tblVehicleEF	UBUS	0.02	3.0610e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4840e-003
tblVehicleEF	UBUS	2.52	4.54
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.12	0.04
tblVehicleEF	UBUS	1.83	4.45
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	9.27	34.75
tblVehicleEF	UBUS	13.86	0.90
tblVehicleEF	UBUS	1,846.39	1,692.13
tblVehicleEF	UBUS	136.37	11.80
tblVehicleEF	UBUS	5.76	0.38
tblVehicleEF	UBUS	13.55	0.14
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6550e-003
tblVehicleEF	UBUS	1.4030e-003	1.4100e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5280e-003
tblVehicleEF	UBUS	1.2900e-003	1.3000e-004
tblVehicleEF	UBUS	9.2250e-003	1.6870e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	4.1190e-003	7.4500e-004

tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.13	0.04
tblVehicleEF	UBUS	0.01	3.0250e-003
tblVehicleEF	UBUS	1.6160e-003	1.1700e-004
tblVehicleEF	UBUS	9.2250e-003	1.6870e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	4.1190e-003	7.4500e-004
tblVehicleEF	UBUS	2.50	4.54
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.24	0.04
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	33.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	15.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00

tblVehicleTrips	PR_TP	82.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.64	0.44
tblVehicleTrips	ST_TR	1.68	0.69
tblVehicleTrips	ST_TR	1.68	0.29
tblVehicleTrips	SU_TR	0.76	0.44
tblVehicleTrips	SU_TR	1.68	0.69
tblVehicleTrips	SU_TR	1.68	0.28
tblVehicleTrips	WD_TR	11.42	0.44
tblVehicleTrips	WD_TR	1.68	0.69
tblVehicleTrips	WD_TR	1.68	0.37
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	58,273,563.95	0.00
tblWater	IndoorWaterUseRate	46,250,000.00	0.00
tblWater	IndoorWaterUseRate	318,465,937.50	0.00
tblWater	OutdoorWaterUseRate	35,716,055.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

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	38.2524	1.8200e-003	0.1992	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4263	0.4263	1.1200e-003		0.4545
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	5.6004	183.3586	44.4897	0.7984	28.7155	2.0390	30.7545	8.1551	1.9506	10.1057		88,013.3238	88,013.3238	5.6760		88,155.2234
Total	**43.8527**	**183.3605**	**44.6890**	**0.7984**	**28.7155**	**2.0397**	**30.7552**	**8.1551**	**1.9513**	**10.1064**		**88,013.7501**	**88,013.7501**	**5.6771**	**0.0000**	**88,155.6779**

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	38.2524	1.8200e-003	0.1992	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4263	0.4263	1.1200e-003		0.4545
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	5.6004	183.3586	44.4897	0.7984	28.7155	2.0390	30.7545	8.1551	1.9506	10.1057		88,013.3238	88,013.3238	5.6760		88,155.2234
Total	**43.8527**	**183.3605**	**44.6890**	**0.7984**	**28.7155**	**2.0397**	**30.7552**	**8.1551**	**1.9513**	**10.1064**		**88,013.7501**	**88,013.7501**	**5.6771**	**0.0000**	**88,155.6779**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**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**

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	5.6004	183.3586	44.4897	0.7984	28.7155	2.0390	30.7545	8.1551	1.9506	10.1057		88,013.3238	88,013.3238	5.6760		88,155.2234
Unmitigated	5.6004	183.3586	44.4897	0.7984	28.7155	2.0390	30.7545	8.1551	1.9506	10.1057		88,013.3238	88,013.3238	5.6760		88,155.2234

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Office Park	144.26	144.26	144.26	2,100,466	2,100,466
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	138.00	138.00	138.00	2,009,280	2,009,280
Unrefrigerated Warehouse-No Rail	509.55	399.37	385.60	6,932,022	6,932,022
Total	791.81	681.64	667.86	11,041,769	11,041,769

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Office Park	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	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
Refrigerated Warehouse-No Rail	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No Rail	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.082031	0.292969	0.625000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.101449	0.362319	0.536232	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.091074	0.325268	0.583658	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
Office Park	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
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Refrigerated Warehouse-No Rail	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
Office Park	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
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Refrigerated Warehouse-No Rail	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	38.2524	1.8200e-003	0.1992	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4263	0.4263	1.1200e-003		0.4545
Unmitigated	38.2524	1.8200e-003	0.1992	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4263	0.4263	1.1200e-003		0.4545

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	38.2338					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0185	1.8200e-003	0.1992	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4263	0.4263	1.1200e-003		0.4545
Total	**38.2524**	**1.8200e-003**	**0.1992**	**1.0000e-005**		**7.1000e-004**	**7.1000e-004**		**7.1000e-004**	**7.1000e-004**		**0.4263**	**0.4263**	**1.1200e-003**		**0.4545**

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	38.2338					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0185	1.8200e-003	0.1992	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4263	0.4263	1.1200e-003		0.4545
Total	**38.2524**	**1.8200e-003**	**0.1992**	**1.0000e-005**		**7.1000e-004**	**7.1000e-004**		**7.1000e-004**	**7.1000e-004**		**0.4263**	**0.4263**	**1.1200e-003**		**0.4545**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Operation_Trucks

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	327.87	1000sqft	13.99	327,874.00	0
Refrigerated Warehouse-No Rail	200.00	1000sqft	13.99	200,000.00	0
Unrefrigerated Warehouse-No Rail	1,377.15	1000sqft	13.99	1,377,153.00	0
Other Asphalt Surfaces	25.21	Acre	25.21	1,098,198.00	0
Other Non-Asphalt Surfaces	9.71	Acre	9.71	0.00	0
Parking Lot	8.12	Acre	8.12	353,766.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	504.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See assumptions file in the AQ/GHG Appendix of the DEIR.

Land Use - See assumptions file in the AQ/GHG appendix of the DEIR.

Construction Phase -

Off-road Equipment - .

Vehicle Trips - Based on information provided by Urban Crossroads. See assumptions file in the AQ/GHG appendix of the DEIR for details.

Area Coating - For on-road truck emissions only.

Energy Use - For on-road truck emissions only.

Water And Wastewater - For on-road truck emissions only.

Solid Waste - For on-road truck emissions only.

Construction Off-road Equipment Mitigation - Assumes forklifts use for warehousing operations would be indoors and CNG-powered.

Energy Mitigation -

Water Mitigation -

Fleet Mix - See assumptions file in the AQ/GHG appendix of the DEIR for details.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	952512	0
tblAreaCoating	Area_Nonresidential_Interior	2857536	0
tblAreaCoating	Area_Parking	87118	0
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblEnergyUse	LightingElect	4.24	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	2.60	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	3.07	0.00

tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	2.92	0.00
tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblFleetMix	HHD	0.06	0.63
tblFleetMix	HHD	0.06	0.54
tblFleetMix	HHD	0.06	0.58
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.1010e-003	0.08
tblFleetMix	LHD2	5.1010e-003	0.10
tblFleetMix	LHD2	5.1010e-003	0.09
tblFleetMix	MCY	5.9030e-003	0.00
tblFleetMix	MCY	5.9030e-003	0.00
tblFleetMix	MCY	5.9030e-003	0.00
tblFleetMix	MDV	0.12	0.00

tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.4400e-004	0.00
tblFleetMix	MH	9.4400e-004	0.00
tblFleetMix	MH	9.4400e-004	0.00
tblFleetMix	MHD	0.02	0.29
tblFleetMix	MHD	0.02	0.36
tblFleetMix	MHD	0.02	0.33
tblFleetMix	OBUS	1.3570e-003	0.00
tblFleetMix	OBUS	1.3570e-003	0.00
tblFleetMix	OBUS	1.3570e-003	0.00
tblFleetMix	SBUS	8.0800e-004	0.00
tblFleetMix	SBUS	8.0800e-004	0.00
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tblFleetMix	UBUS	1.5650e-003	0.00
tblFleetMix	UBUS	1.5650e-003	0.00
tblFleetMix	UBUS	1.5650e-003	0.00
tblLandUse	LandUseSquareFeet	327,870.00	327,874.00
tblLandUse	LandUseSquareFeet	1,377,150.00	1,377,153.00
tblLandUse	LandUseSquareFeet	1,098,147.60	1,098,198.00
tblLandUse	LandUseSquareFeet	422,967.60	0.00
tblLandUse	LandUseSquareFeet	353,707.20	353,766.00
tblLandUse	LotAcreage	7.53	13.99
tblLandUse	LotAcreage	4.59	13.99
tblLandUse	LotAcreage	31.62	13.99
tblProjectCharacteristics	CO2IntensityFactor	702.44	504.44
tblSolidWaste	SolidWasteGenerationRate	304.92	0.00

tblSolidWaste	SolidWasteGenerationRate	188.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,294.52	0.00
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tblVehicleEF	HHD	8.5000e-005	5.0000e-006
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tblVehicleEF	HHD	5.2000e-005	3.0000e-006
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tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.24
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tblVehicleEF	LDA	0.12	0.11
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.21

tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	2.7550e-003	2.8220e-003
tblVehicleEF	LDA	5.8800e-004	5.2600e-004
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tblVehicleEF	LDA	2.2790e-003	1.8540e-003
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tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
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tblVehicleEF	LDA	0.08	0.22

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tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.24
tblVehicleEF	LDT1	0.01	7.5760e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.54	1.52
tblVehicleEF	LDT1	3.61	2.38
tblVehicleEF	LDT1	313.68	312.60
tblVehicleEF	LDT1	70.93	65.27
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	0.22	0.30
tblVehicleEF	LDT1	2.7050e-003	2.3390e-003
tblVehicleEF	LDT1	3.6920e-003	2.8340e-003
tblVehicleEF	LDT1	2.4910e-003	2.1530e-003
tblVehicleEF	LDT1	3.3960e-003	2.6050e-003
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.20	0.86
tblVehicleEF	LDT1	0.26	0.42
tblVehicleEF	LDT1	3.1570e-003	3.0930e-003

tblVehicleEF	LDT1	7.7300e-004	6.4600e-004
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.86
tblVehicleEF	LDT1	0.28	0.47
tblVehicleEF	LDT1	0.02	8.4640e-003
tblVehicleEF	LDT1	0.02	0.07
tblVehicleEF	LDT1	1.85	1.80
tblVehicleEF	LDT1	2.97	2.00
tblVehicleEF	LDT1	341.75	335.30
tblVehicleEF	LDT1	70.93	64.45
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.20	0.28
tblVehicleEF	LDT1	2.7050e-003	2.3390e-003
tblVehicleEF	LDT1	3.6920e-003	2.8340e-003
tblVehicleEF	LDT1	2.4910e-003	2.1530e-003
tblVehicleEF	LDT1	3.3960e-003	2.6050e-003
tblVehicleEF	LDT1	0.37	0.36
tblVehicleEF	LDT1	0.41	0.31
tblVehicleEF	LDT1	0.27	0.26
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.20	0.85
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	3.4420e-003	3.3180e-003
tblVehicleEF	LDT1	7.6200e-004	6.3800e-004

tblVehicleEF	LDT1	0.37	0.36
tblVehicleEF	LDT1	0.41	0.31
tblVehicleEF	LDT1	0.27	0.26
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.85
tblVehicleEF	LDT1	0.23	0.40
tblVehicleEF	LDT1	0.01	7.4310e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.47	1.46
tblVehicleEF	LDT1	3.55	2.39
tblVehicleEF	LDT1	307.06	308.38
tblVehicleEF	LDT1	70.93	65.29
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	0.21	0.29
tblVehicleEF	LDT1	2.7050e-003	2.3390e-003
tblVehicleEF	LDT1	3.6920e-003	2.8340e-003
tblVehicleEF	LDT1	2.4910e-003	2.1530e-003
tblVehicleEF	LDT1	3.3960e-003	2.6050e-003
tblVehicleEF	LDT1	0.19	0.19
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.00
tblVehicleEF	LDT1	0.25	0.43
tblVehicleEF	LDT1	3.0890e-003	3.0520e-003
tblVehicleEF	LDT1	7.7200e-004	6.4600e-004
tblVehicleEF	LDT1	0.19	0.19

tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.23	1.00
tblVehicleEF	LDT1	0.28	0.47
tblVehicleEF	LDT2	6.3270e-003	4.4090e-003
tblVehicleEF	LDT2	8.1990e-003	0.07
tblVehicleEF	LDT2	0.80	1.00
tblVehicleEF	LDT2	1.67	2.71
tblVehicleEF	LDT2	351.15	333.43
tblVehicleEF	LDT2	79.39	69.80
tblVehicleEF	LDT2	0.09	0.09
tblVehicleEF	LDT2	0.14	0.30
tblVehicleEF	LDT2	1.7270e-003	1.5990e-003
tblVehicleEF	LDT2	2.4170e-003	1.9200e-003
tblVehicleEF	LDT2	1.5880e-003	1.4710e-003
tblVehicleEF	LDT2	2.2220e-003	1.7660e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.11	0.33
tblVehicleEF	LDT2	3.5180e-003	3.2990e-003
tblVehicleEF	LDT2	8.2200e-004	6.9100e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.14

tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.12	0.36
tblVehicleEF	LDT2	7.1840e-003	4.9540e-003
tblVehicleEF	LDT2	6.8290e-003	0.06
tblVehicleEF	LDT2	0.97	1.19
tblVehicleEF	LDT2	1.38	2.27
tblVehicleEF	LDT2	383.36	355.41
tblVehicleEF	LDT2	79.39	68.95
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.13	0.28
tblVehicleEF	LDT2	1.7270e-003	1.5990e-003
tblVehicleEF	LDT2	2.4170e-003	1.9200e-003
tblVehicleEF	LDT2	1.5880e-003	1.4710e-003
tblVehicleEF	LDT2	2.2220e-003	1.7660e-003
tblVehicleEF	LDT2	0.13	0.18
tblVehicleEF	LDT2	0.15	0.16
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.8420e-003	3.5160e-003
tblVehicleEF	LDT2	8.1700e-004	6.8200e-004
tblVehicleEF	LDT2	0.13	0.18
tblVehicleEF	LDT2	0.15	0.16
tblVehicleEF	LDT2	0.11	0.15

tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	6.1560e-003	4.3220e-003
tblVehicleEF	LDT2	8.1410e-003	0.07
tblVehicleEF	LDT2	0.75	0.96
tblVehicleEF	LDT2	1.64	2.72
tblVehicleEF	LDT2	343.55	329.34
tblVehicleEF	LDT2	79.39	69.82
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.14	0.30
tblVehicleEF	LDT2	1.7270e-003	1.5990e-003
tblVehicleEF	LDT2	2.4170e-003	1.9200e-003
tblVehicleEF	LDT2	1.5880e-003	1.4710e-003
tblVehicleEF	LDT2	2.2220e-003	1.7660e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.52
tblVehicleEF	LDT2	0.11	0.33
tblVehicleEF	LDT2	3.4410e-003	3.2580e-003
tblVehicleEF	LDT2	8.2200e-004	6.9100e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03

tblVehicleEF	LDT2	0.08	0.52
tblVehicleEF	LDT2	0.12	0.37
tblVehicleEF	LHD1	5.2170e-003	5.0850e-003
tblVehicleEF	LHD1	0.01	6.1020e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.07	0.75
tblVehicleEF	LHD1	2.60	1.03
tblVehicleEF	LHD1	9.23	9.25
tblVehicleEF	LHD1	609.20	652.45
tblVehicleEF	LHD1	30.40	11.21
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	2.12	1.25
tblVehicleEF	LHD1	0.99	0.32
tblVehicleEF	LHD1	9.6500e-004	8.9000e-004
tblVehicleEF	LHD1	0.01	9.8770e-003
tblVehicleEF	LHD1	0.01	9.8260e-003
tblVehicleEF	LHD1	9.5800e-004	2.6000e-004
tblVehicleEF	LHD1	9.2400e-004	8.5100e-004
tblVehicleEF	LHD1	2.5390e-003	2.4690e-003
tblVehicleEF	LHD1	0.01	9.3750e-003
tblVehicleEF	LHD1	8.8100e-004	2.3900e-004
tblVehicleEF	LHD1	3.7070e-003	3.0390e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8240e-003	1.5810e-003
tblVehicleEF	LHD1	0.08	0.06

tblVehicleEF	LHD1	0.35	0.55
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3570e-003
tblVehicleEF	LHD1	3.5300e-004	1.1100e-004
tblVehicleEF	LHD1	3.7070e-003	3.0390e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8240e-003	1.5810e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.35	0.55
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.2170e-003	5.0990e-003
tblVehicleEF	LHD1	0.01	6.2280e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.09	0.76
tblVehicleEF	LHD1	2.43	0.98
tblVehicleEF	LHD1	9.23	9.25
tblVehicleEF	LHD1	609.20	652.47
tblVehicleEF	LHD1	30.40	11.12
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.98	1.17
tblVehicleEF	LHD1	0.94	0.31
tblVehicleEF	LHD1	9.6500e-004	8.9000e-004
tblVehicleEF	LHD1	0.01	9.8770e-003
tblVehicleEF	LHD1	0.01	9.8260e-003

tblVehicleEF	LHD1	9.5800e-004	2.6000e-004
tblVehicleEF	LHD1	9.2400e-004	8.5100e-004
tblVehicleEF	LHD1	2.5390e-003	2.4690e-003
tblVehicleEF	LHD1	0.01	9.3750e-003
tblVehicleEF	LHD1	8.8100e-004	2.3900e-004
tblVehicleEF	LHD1	7.3080e-003	5.4780e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.1220e-003	3.0450e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.36	0.56
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9770e-003	6.3570e-003
tblVehicleEF	LHD1	3.5000e-004	1.1000e-004
tblVehicleEF	LHD1	7.3080e-003	5.4780e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.1220e-003	3.0450e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.36	0.56
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.2170e-003	5.0870e-003
tblVehicleEF	LHD1	0.01	6.1100e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.07	0.75

tblVehicleEF	LHD1	2.55	1.02
tblVehicleEF	LHD1	9.23	9.25
tblVehicleEF	LHD1	609.20	652.45
tblVehicleEF	LHD1	30.40	11.20
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	2.08	1.23
tblVehicleEF	LHD1	0.97	0.31
tblVehicleEF	LHD1	9.6500e-004	8.9000e-004
tblVehicleEF	LHD1	0.01	9.8770e-003
tblVehicleEF	LHD1	0.01	9.8260e-003
tblVehicleEF	LHD1	9.5800e-004	2.6000e-004
tblVehicleEF	LHD1	9.2400e-004	8.5100e-004
tblVehicleEF	LHD1	2.5390e-003	2.4690e-003
tblVehicleEF	LHD1	0.01	9.3750e-003
tblVehicleEF	LHD1	8.8100e-004	2.3900e-004
tblVehicleEF	LHD1	4.0430e-003	3.1520e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7940e-003	1.6100e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.60
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3570e-003
tblVehicleEF	LHD1	3.5200e-004	1.1100e-004
tblVehicleEF	LHD1	4.0430e-003	3.1520e-003
tblVehicleEF	LHD1	0.13	0.10

tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7940e-003	1.6100e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.38	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	3.5950e-003	3.6950e-003
tblVehicleEF	LHD2	4.6110e-003	4.1040e-003
tblVehicleEF	LHD2	8.1370e-003	0.01
tblVehicleEF	LHD2	0.12	0.15
tblVehicleEF	LHD2	0.50	0.50
tblVehicleEF	LHD2	1.20	0.67
tblVehicleEF	LHD2	14.27	14.14
tblVehicleEF	LHD2	608.52	665.25
tblVehicleEF	LHD2	24.46	8.76
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.49	1.36
tblVehicleEF	LHD2	0.53	0.22
tblVehicleEF	LHD2	1.2830e-003	1.3100e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.3700e-004
tblVehicleEF	LHD2	1.2280e-003	1.2540e-003
tblVehicleEF	LHD2	2.6860e-003	2.6560e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.2600e-004
tblVehicleEF	LHD2	1.3070e-003	1.7040e-003
tblVehicleEF	LHD2	0.04	0.05

tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.0300e-004	9.2000e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.9200e-003	6.4300e-003
tblVehicleEF	LHD2	2.6700e-004	8.7000e-005
tblVehicleEF	LHD2	1.3070e-003	1.7040e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0300e-004	9.2000e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	3.5950e-003	3.7050e-003
tblVehicleEF	LHD2	4.6760e-003	4.1460e-003
tblVehicleEF	LHD2	7.7630e-003	0.01
tblVehicleEF	LHD2	0.12	0.15
tblVehicleEF	LHD2	0.50	0.50
tblVehicleEF	LHD2	1.13	0.64
tblVehicleEF	LHD2	14.27	14.14
tblVehicleEF	LHD2	608.52	665.25
tblVehicleEF	LHD2	24.46	8.70
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.40	1.28
tblVehicleEF	LHD2	0.50	0.21

tblVehicleEF	LHD2	1.2830e-003	1.3100e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.3700e-004
tblVehicleEF	LHD2	1.2280e-003	1.2540e-003
tblVehicleEF	LHD2	2.6860e-003	2.6560e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.2600e-004
tblVehicleEF	LHD2	2.5220e-003	3.0730e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7630e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.9200e-003	6.4300e-003
tblVehicleEF	LHD2	2.6500e-004	8.6000e-005
tblVehicleEF	LHD2	2.5220e-003	3.0730e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7630e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.5950e-003	3.6960e-003
tblVehicleEF	LHD2	4.6180e-003	4.1080e-003

tblVehicleEF	LHD2	8.0640e-003	0.01
tblVehicleEF	LHD2	0.12	0.15
tblVehicleEF	LHD2	0.50	0.50
tblVehicleEF	LHD2	1.19	0.67
tblVehicleEF	LHD2	14.27	14.14
tblVehicleEF	LHD2	608.52	665.25
tblVehicleEF	LHD2	24.46	8.75
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.46	1.33
tblVehicleEF	LHD2	0.52	0.22
tblVehicleEF	LHD2	1.2830e-003	1.3100e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.3700e-004
tblVehicleEF	LHD2	1.2280e-003	1.2540e-003
tblVehicleEF	LHD2	2.6860e-003	2.6560e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.2600e-004
tblVehicleEF	LHD2	1.3460e-003	1.7140e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.8700e-004	9.2200e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.10	0.34
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.9200e-003	6.4300e-003

tblVehicleEF	LHD2	2.6600e-004	8.7000e-005
tblVehicleEF	LHD2	1.3460e-003	1.7140e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.8700e-004	9.2200e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.10	0.34
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	20.55	19.26
tblVehicleEF	MCY	9.93	8.60
tblVehicleEF	MCY	167.73	212.03
tblVehicleEF	MCY	46.45	60.73
tblVehicleEF	MCY	1.16	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8610e-003	1.9650e-003
tblVehicleEF	MCY	3.6730e-003	2.9600e-003
tblVehicleEF	MCY	1.7420e-003	1.8380e-003
tblVehicleEF	MCY	3.4650e-003	2.7870e-003
tblVehicleEF	MCY	1.45	1.42
tblVehicleEF	MCY	0.84	0.80
tblVehicleEF	MCY	0.80	0.78
tblVehicleEF	MCY	2.23	2.33
tblVehicleEF	MCY	0.49	1.91
tblVehicleEF	MCY	2.16	1.84
tblVehicleEF	MCY	2.0770e-003	2.0980e-003

tblVehicleEF	MCY	6.9000e-004	6.0100e-004
tblVehicleEF	MCY	1.45	1.42
tblVehicleEF	MCY	0.84	0.80
tblVehicleEF	MCY	0.80	0.78
tblVehicleEF	MCY	2.74	2.87
tblVehicleEF	MCY	0.49	1.91
tblVehicleEF	MCY	2.35	2.01
tblVehicleEF	MCY	0.42	0.34
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	20.68	19.28
tblVehicleEF	MCY	9.05	7.90
tblVehicleEF	MCY	167.73	211.90
tblVehicleEF	MCY	46.45	58.88
tblVehicleEF	MCY	0.99	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8610e-003	1.9650e-003
tblVehicleEF	MCY	3.6730e-003	2.9600e-003
tblVehicleEF	MCY	1.7420e-003	1.8380e-003
tblVehicleEF	MCY	3.4650e-003	2.7870e-003
tblVehicleEF	MCY	3.14	2.77
tblVehicleEF	MCY	1.27	1.11
tblVehicleEF	MCY	2.13	1.77
tblVehicleEF	MCY	2.17	2.28
tblVehicleEF	MCY	0.49	1.88
tblVehicleEF	MCY	1.86	1.62
tblVehicleEF	MCY	2.0770e-003	2.0970e-003
tblVehicleEF	MCY	6.6700e-004	5.8300e-004

tblVehicleEF	MCY	3.14	2.77
tblVehicleEF	MCY	1.27	1.11
tblVehicleEF	MCY	2.13	1.77
tblVehicleEF	MCY	2.67	2.81
tblVehicleEF	MCY	0.49	1.88
tblVehicleEF	MCY	2.02	1.76
tblVehicleEF	MCY	0.42	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.63	18.76
tblVehicleEF	MCY	9.55	8.44
tblVehicleEF	MCY	167.73	211.17
tblVehicleEF	MCY	46.45	60.38
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8610e-003	1.9650e-003
tblVehicleEF	MCY	3.6730e-003	2.9600e-003
tblVehicleEF	MCY	1.7420e-003	1.8380e-003
tblVehicleEF	MCY	3.4650e-003	2.7870e-003
tblVehicleEF	MCY	1.71	1.57
tblVehicleEF	MCY	1.13	1.06
tblVehicleEF	MCY	0.72	0.74
tblVehicleEF	MCY	2.19	2.31
tblVehicleEF	MCY	0.56	2.18
tblVehicleEF	MCY	2.08	1.81
tblVehicleEF	MCY	2.0610e-003	2.0900e-003
tblVehicleEF	MCY	6.8200e-004	5.9800e-004
tblVehicleEF	MCY	1.71	1.57

tblVehicleEF	MCY	1.13	1.06
tblVehicleEF	MCY	0.72	0.74
tblVehicleEF	MCY	2.69	2.84
tblVehicleEF	MCY	0.56	2.18
tblVehicleEF	MCY	2.27	1.98
tblVehicleEF	MDV	0.01	5.5200e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.35	1.13
tblVehicleEF	MDV	3.25	3.24
tblVehicleEF	MDV	483.94	412.47
tblVehicleEF	MDV	107.92	86.76
tblVehicleEF	MDV	0.17	0.11
tblVehicleEF	MDV	0.32	0.38
tblVehicleEF	MDV	1.8260e-003	1.6820e-003
tblVehicleEF	MDV	2.5170e-003	2.0280e-003
tblVehicleEF	MDV	1.6830e-003	1.5510e-003
tblVehicleEF	MDV	2.3150e-003	1.8650e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MDV	4.8500e-003	4.0780e-003
tblVehicleEF	MDV	1.1370e-003	8.5900e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.17

tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.28	0.48
tblVehicleEF	MDV	0.01	6.2110e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.64	1.35
tblVehicleEF	MDV	2.69	2.71
tblVehicleEF	MDV	526.85	435.67
tblVehicleEF	MDV	107.92	85.71
tblVehicleEF	MDV	0.16	0.10
tblVehicleEF	MDV	0.30	0.35
tblVehicleEF	MDV	1.8260e-003	1.6820e-003
tblVehicleEF	MDV	2.5170e-003	2.0280e-003
tblVehicleEF	MDV	1.6830e-003	1.5510e-003
tblVehicleEF	MDV	2.3150e-003	1.8650e-003
tblVehicleEF	MDV	0.20	0.21
tblVehicleEF	MDV	0.23	0.19
tblVehicleEF	MDV	0.17	0.19
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.49
tblVehicleEF	MDV	0.21	0.38
tblVehicleEF	MDV	5.2830e-003	4.3080e-003
tblVehicleEF	MDV	1.1260e-003	8.4800e-004
tblVehicleEF	MDV	0.20	0.21
tblVehicleEF	MDV	0.23	0.19
tblVehicleEF	MDV	0.17	0.19

tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.49
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	0.01	5.4050e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.28	1.09
tblVehicleEF	MDV	3.20	3.25
tblVehicleEF	MDV	473.93	408.15
tblVehicleEF	MDV	107.92	86.78
tblVehicleEF	MDV	0.16	0.10
tblVehicleEF	MDV	0.32	0.38
tblVehicleEF	MDV	1.8260e-003	1.6820e-003
tblVehicleEF	MDV	2.5170e-003	2.0280e-003
tblVehicleEF	MDV	1.6830e-003	1.5510e-003
tblVehicleEF	MDV	2.3150e-003	1.8650e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.57
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MDV	4.7490e-003	4.0360e-003
tblVehicleEF	MDV	1.1360e-003	8.5900e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03

tblVehicleEF	MDV	0.13	0.57
tblVehicleEF	MDV	0.27	0.48
tblVehicleEF	MH	0.04	3.6580e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.07	0.35
tblVehicleEF	MH	6.43	0.00
tblVehicleEF	MH	1,045.05	970.21
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tblVehicleEF	MH	1.54	4.24
tblVehicleEF	MH	0.91	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.0790e-003	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	9.1720e-003
tblVehicleEF	MH	7.0700e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00

tblVehicleEF	MH	0.14	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.04	3.6580e-003
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tblVehicleEF	MH	3.19	0.35
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tblVehicleEF	MH	1,045.05	970.21
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tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.0790e-003	0.00
tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
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tblVehicleEF	MH	6.9700e-004	0.00
tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00

tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
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tblVehicleEF	MH	0.04	3.6580e-003
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tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
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tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
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tblVehicleEF	MH	1.75	0.00

tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.15	0.09
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tblVehicleEF	MHD	3.8600e-004	1.2310e-003
tblVehicleEF	MHD	5.0030e-003	0.04
tblVehicleEF	MHD	7.6400e-004	7.5000e-005
tblVehicleEF	MHD	3.6900e-004	1.1780e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	6.9000e-005
tblVehicleEF	MHD	1.2800e-003	4.5300e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.5100e-004	2.4000e-004

tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.03
tblVehicleEF	MHD	1.5080e-003	6.5300e-004
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tblVehicleEF	MHD	6.1700e-004	6.3000e-005
tblVehicleEF	MHD	1.2800e-003	4.5300e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.5100e-004	2.4000e-004
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	MHD	0.02	2.3860e-003
tblVehicleEF	MHD	3.5800e-003	3.3450e-003
tblVehicleEF	MHD	0.05	6.2100e-003
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tblVehicleEF	MHD	1,101.52	974.58
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tblVehicleEF	MHD	0.92	1.52
tblVehicleEF	MHD	11.85	1.49
tblVehicleEF	MHD	3.2500e-004	1.0410e-003
tblVehicleEF	MHD	5.0030e-003	0.04

tblVehicleEF	MHD	7.6400e-004	7.5000e-005
tblVehicleEF	MHD	3.1100e-004	9.9600e-004
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	6.9000e-005
tblVehicleEF	MHD	2.5300e-003	8.2800e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5010e-003	4.7800e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.30	0.03
tblVehicleEF	MHD	1.5950e-003	6.5900e-004
tblVehicleEF	MHD	0.01	9.2620e-003
tblVehicleEF	MHD	6.1100e-004	6.2000e-005
tblVehicleEF	MHD	2.5300e-003	8.2800e-004
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tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5010e-003	4.7800e-004
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tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
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tblVehicleEF	MHD	0.97	1.59
tblVehicleEF	MHD	11.87	1.50
tblVehicleEF	MHD	4.7000e-004	1.4940e-003
tblVehicleEF	MHD	5.0030e-003	0.04
tblVehicleEF	MHD	7.6400e-004	7.5000e-005
tblVehicleEF	MHD	4.4900e-004	1.4300e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	6.9000e-005
tblVehicleEF	MHD	1.3890e-003	4.7100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.4000e-004	2.4400e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.32	0.03
tblVehicleEF	MHD	1.3860e-003	6.4400e-004
tblVehicleEF	MHD	0.01	9.2620e-003
tblVehicleEF	MHD	6.1600e-004	6.3000e-005
tblVehicleEF	MHD	1.3890e-003	4.7100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.4000e-004	2.4400e-004
tblVehicleEF	MHD	0.04	0.07

tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.35	0.04
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tblVehicleEF	OBUS	9.9110e-003	6.5960e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.52
tblVehicleEF	OBUS	0.63	0.77
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tblVehicleEF	OBUS	70.35	76.06
tblVehicleEF	OBUS	1,121.50	1,406.90
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tblVehicleEF	OBUS	0.28	0.34
tblVehicleEF	OBUS	0.97	1.24
tblVehicleEF	OBUS	1.93	0.68
tblVehicleEF	OBUS	6.4000e-005	5.8900e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.1800e-004
tblVehicleEF	OBUS	6.1000e-005	5.6400e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.0100e-004
tblVehicleEF	OBUS	2.1800e-003	2.6020e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.3100e-004	1.1160e-003
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12

tblVehicleEF	OBUS	6.8400e-004	7.2500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1700e-004	2.0300e-004
tblVehicleEF	OBUS	2.1800e-003	2.6020e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.3100e-004	1.1160e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.42	0.13
tblVehicleEF	OBUS	0.01	8.8750e-003
tblVehicleEF	OBUS	0.01	6.7350e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.51
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tblVehicleEF	OBUS	1.88	0.67
tblVehicleEF	OBUS	5.4000e-005	5.0100e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.1800e-004
tblVehicleEF	OBUS	5.1000e-005	4.7900e-004
tblVehicleEF	OBUS	4.4220e-003	0.01

tblVehicleEF	OBUS	8.5400e-004	2.0100e-004
tblVehicleEF	OBUS	4.2350e-003	4.6860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.1330e-003	2.2090e-003
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.11
tblVehicleEF	OBUS	7.1400e-004	7.2400e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0800e-004	2.0000e-004
tblVehicleEF	OBUS	4.2350e-003	4.6860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	2.1330e-003	2.2090e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.40	0.12
tblVehicleEF	OBUS	0.01	8.7740e-003
tblVehicleEF	OBUS	9.9380e-003	6.6000e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.53
tblVehicleEF	OBUS	0.63	0.77
tblVehicleEF	OBUS	6.22	2.45
tblVehicleEF	OBUS	66.00	76.30
tblVehicleEF	OBUS	1,121.50	1,406.90
tblVehicleEF	OBUS	70.70	20.50

tblVehicleEF	OBUS	0.27	0.35
tblVehicleEF	OBUS	0.96	1.22
tblVehicleEF	OBUS	1.91	0.68
tblVehicleEF	OBUS	7.7000e-005	7.1200e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.1800e-004
tblVehicleEF	OBUS	7.4000e-005	6.8100e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.0100e-004
tblVehicleEF	OBUS	2.3200e-003	2.7390e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.4100e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.05	0.30
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	6.4200e-004	7.2700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1600e-004	2.0300e-004
tblVehicleEF	OBUS	2.3200e-003	2.7390e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.4100e-004	1.1650e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.30
tblVehicleEF	OBUS	0.42	0.13
tblVehicleEF	SBUS	0.84	0.06

tblVehicleEF	SBUS	0.01	8.5840e-003
tblVehicleEF	SBUS	0.07	6.1570e-003
tblVehicleEF	SBUS	5.71	2.50
tblVehicleEF	SBUS	0.65	0.78
tblVehicleEF	SBUS	5.33	0.82
tblVehicleEF	SBUS	1,258.13	345.06
tblVehicleEF	SBUS	1,136.31	1,112.17
tblVehicleEF	SBUS	37.11	4.79
tblVehicleEF	SBUS	11.70	3.29
tblVehicleEF	SBUS	4.77	5.20
tblVehicleEF	SBUS	15.02	0.91
tblVehicleEF	SBUS	0.01	4.3580e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	4.1690e-003
tblVehicleEF	SBUS	2.7560e-003	2.7010e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	3.6000e-005
tblVehicleEF	SBUS	2.9260e-003	1.2420e-003
tblVehicleEF	SBUS	0.02	9.5120e-003
tblVehicleEF	SBUS	0.68	0.28
tblVehicleEF	SBUS	1.3050e-003	5.9000e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	9.3510e-003	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.2890e-003

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6300e-004	4.7000e-005
tblVehicleEF	SBUS	2.9260e-003	1.2420e-003
tblVehicleEF	SBUS	0.02	9.5120e-003
tblVehicleEF	SBUS	0.97	0.40
tblVehicleEF	SBUS	1.3050e-003	5.9000e-004
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	9.3510e-003	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	0.01	8.7140e-003
tblVehicleEF	SBUS	0.06	5.1550e-003
tblVehicleEF	SBUS	5.56	2.47
tblVehicleEF	SBUS	0.66	0.80
tblVehicleEF	SBUS	3.65	0.60
tblVehicleEF	SBUS	1,322.00	352.98
tblVehicleEF	SBUS	1,136.31	1,112.20
tblVehicleEF	SBUS	37.11	4.41
tblVehicleEF	SBUS	12.08	3.36
tblVehicleEF	SBUS	4.47	4.88
tblVehicleEF	SBUS	14.99	0.90
tblVehicleEF	SBUS	0.01	3.6810e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	4.0000e-005
tblVehicleEF	SBUS	9.6490e-003	3.5220e-003
tblVehicleEF	SBUS	2.7560e-003	2.7010e-003

tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	3.6000e-005
tblVehicleEF	SBUS	5.6170e-003	2.2080e-003
tblVehicleEF	SBUS	0.02	9.9850e-003
tblVehicleEF	SBUS	0.67	0.28
tblVehicleEF	SBUS	2.8800e-003	1.1130e-003
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	8.5310e-003	0.06
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3630e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.3500e-004	4.4000e-005
tblVehicleEF	SBUS	5.6170e-003	2.2080e-003
tblVehicleEF	SBUS	0.02	9.9850e-003
tblVehicleEF	SBUS	0.97	0.40
tblVehicleEF	SBUS	2.8800e-003	1.1130e-003
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	8.5310e-003	0.06
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	0.01	8.5760e-003
tblVehicleEF	SBUS	0.07	6.3440e-003
tblVehicleEF	SBUS	5.91	2.56
tblVehicleEF	SBUS	0.65	0.78
tblVehicleEF	SBUS	5.37	0.86
tblVehicleEF	SBUS	1,169.92	334.13
tblVehicleEF	SBUS	1,136.31	1,112.17

tblVehicleEF	SBUS	37.11	4.85
tblVehicleEF	SBUS	11.19	3.19
tblVehicleEF	SBUS	4.69	5.12
tblVehicleEF	SBUS	15.02	0.91
tblVehicleEF	SBUS	0.01	5.2920e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	5.0630e-003
tblVehicleEF	SBUS	2.7560e-003	2.7010e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	3.6000e-005
tblVehicleEF	SBUS	2.9580e-003	1.2070e-003
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.68	0.28
tblVehicleEF	SBUS	1.2820e-003	6.0100e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.08
tblVehicleEF	SBUS	0.28	0.04
tblVehicleEF	SBUS	0.01	3.1850e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6400e-004	4.8000e-005
tblVehicleEF	SBUS	2.9580e-003	1.2070e-003
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.98	0.40
tblVehicleEF	SBUS	1.2820e-003	6.0100e-004
tblVehicleEF	SBUS	0.13	0.13

tblVehicleEF	SBUS	0.01	0.08
tblVehicleEF	SBUS	0.31	0.04
tblVehicleEF	UBUS	1.83	4.45
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	9.26	34.75
tblVehicleEF	UBUS	14.34	0.89
tblVehicleEF	UBUS	1,846.39	1,692.13
tblVehicleEF	UBUS	136.37	11.77
tblVehicleEF	UBUS	5.87	0.38
tblVehicleEF	UBUS	13.57	0.14
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6550e-003
tblVehicleEF	UBUS	1.4030e-003	1.4100e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5280e-003
tblVehicleEF	UBUS	1.2900e-003	1.3000e-004
tblVehicleEF	UBUS	8.0860e-003	1.6780e-003
tblVehicleEF	UBUS	0.11	9.5390e-003
tblVehicleEF	UBUS	3.9450e-003	7.3700e-004
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.15	0.04
tblVehicleEF	UBUS	0.01	3.0250e-003
tblVehicleEF	UBUS	1.6240e-003	1.1700e-004
tblVehicleEF	UBUS	8.0860e-003	1.6780e-003

tblVehicleEF	UBUS	0.11	9.5390e-003
tblVehicleEF	UBUS	3.9450e-003	7.3700e-004
tblVehicleEF	UBUS	2.50	4.54
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.25	0.04
tblVehicleEF	UBUS	1.83	4.45
tblVehicleEF	UBUS	0.08	9.2350e-003
tblVehicleEF	UBUS	9.36	34.75
tblVehicleEF	UBUS	11.74	0.76
tblVehicleEF	UBUS	1,846.39	1,692.13
tblVehicleEF	UBUS	136.37	11.55
tblVehicleEF	UBUS	5.45	0.38
tblVehicleEF	UBUS	13.45	0.13
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6550e-003
tblVehicleEF	UBUS	1.4030e-003	1.4100e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5280e-003
tblVehicleEF	UBUS	1.2900e-003	1.3000e-004
tblVehicleEF	UBUS	0.02	3.0610e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4840e-003
tblVehicleEF	UBUS	0.62	0.07
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.02	0.03

tblVehicleEF	UBUS	0.01	3.0250e-003
tblVehicleEF	UBUS	1.5790e-003	1.1400e-004
tblVehicleEF	UBUS	0.02	3.0610e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4840e-003
tblVehicleEF	UBUS	2.52	4.54
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.12	0.04
tblVehicleEF	UBUS	1.83	4.45
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	9.27	34.75
tblVehicleEF	UBUS	13.86	0.90
tblVehicleEF	UBUS	1,846.39	1,692.13
tblVehicleEF	UBUS	136.37	11.80
tblVehicleEF	UBUS	5.76	0.38
tblVehicleEF	UBUS	13.55	0.14
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6550e-003
tblVehicleEF	UBUS	1.4030e-003	1.4100e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5280e-003
tblVehicleEF	UBUS	1.2900e-003	1.3000e-004
tblVehicleEF	UBUS	9.2250e-003	1.6870e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	4.1190e-003	7.4500e-004

tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.13	0.04
tblVehicleEF	UBUS	0.01	3.0250e-003
tblVehicleEF	UBUS	1.6160e-003	1.1700e-004
tblVehicleEF	UBUS	9.2250e-003	1.6870e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	4.1190e-003	7.4500e-004
tblVehicleEF	UBUS	2.50	4.54
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.24	0.04
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	33.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	15.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00

tblVehicleTrips	PR_TP	82.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.64	0.44
tblVehicleTrips	ST_TR	1.68	0.69
tblVehicleTrips	ST_TR	1.68	0.29
tblVehicleTrips	SU_TR	0.76	0.44
tblVehicleTrips	SU_TR	1.68	0.69
tblVehicleTrips	SU_TR	1.68	0.28
tblVehicleTrips	WD_TR	11.42	0.44
tblVehicleTrips	WD_TR	1.68	0.69
tblVehicleTrips	WD_TR	1.68	0.37
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	58,273,563.95	0.00
tblWater	IndoorWaterUseRate	46,250,000.00	0.00
tblWater	IndoorWaterUseRate	318,465,937.50	0.00
tblWater	OutdoorWaterUseRate	35,716,055.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

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	38.2524	1.8200e-003	0.1992	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4263	0.4263	1.1200e-003		0.4545
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	5.1602	187.6623	30.8430	0.7985	28.6132	2.0336	30.6469	8.1180	1.9455	10.0635		84,288.3629	84,288.3629	0.2652		84,294.9935
Total	**43.4125**	**187.6641**	**31.0422**	**0.7985**	**28.6132**	**2.0343**	**30.6476**	**8.1180**	**1.9462**	**10.0642**		**84,288.7892**	**84,288.7892**	**0.2663**	**0.0000**	**84,295.4480**

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	38.2524	1.8200e-003	0.1992	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4263	0.4263	1.1200e-003		0.4545
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	5.1602	187.6623	30.8430	0.7985	28.6132	2.0336	30.6469	8.1180	1.9455	10.0635		84,288.3629	84,288.3629	0.2652		84,294.9935
Total	**43.4125**	**187.6641**	**31.0422**	**0.7985**	**28.6132**	**2.0343**	**30.6476**	**8.1180**	**1.9462**	**10.0642**		**84,288.7892**	**84,288.7892**	**0.2663**	**0.0000**	**84,295.4480**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**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**

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	5.1602	187.6623	30.8430	0.7985	28.6132	2.0336	30.6469	8.1180	1.9455	10.0635		84,288.3629	84,288.3629	0.2652		84,294.9935
Unmitigated	5.1602	187.6623	30.8430	0.7985	28.6132	2.0336	30.6469	8.1180	1.9455	10.0635		84,288.3629	84,288.3629	0.2652		84,294.9935

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Office Park	144.26	144.26	144.26	2,100,466	2,100,466
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	138.00	138.00	138.00	2,009,280	2,009,280
Unrefrigerated Warehouse-No Rail	509.55	399.37	385.60	6,932,022	6,932,022
Total	791.81	681.64	667.86	11,041,769	11,041,769

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Office Park	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	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
Refrigerated Warehouse-No Rail	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No Rail	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.082031	0.292969	0.625000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.101449	0.362319	0.536232	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.091074	0.325268	0.583658	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
Office Park	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
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Refrigerated Warehouse-No Rail	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
Office Park	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
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Refrigerated Warehouse-No Rail	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	38.2524	1.8200e-003	0.1992	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4263	0.4263	1.1200e-003		0.4545
Unmitigated	38.2524	1.8200e-003	0.1992	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4263	0.4263	1.1200e-003		0.4545

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	38.2338					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0185	1.8200e-003	0.1992	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4263	0.4263	1.1200e-003		0.4545
Total	**38.2524**	**1.8200e-003**	**0.1992**	**1.0000e-005**		**7.1000e-004**	**7.1000e-004**		**7.1000e-004**	**7.1000e-004**		**0.4263**	**0.4263**	**1.1200e-003**		**0.4545**

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	38.2338					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0185	1.8200e-003	0.1992	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4263	0.4263	1.1200e-003		0.4545
Total	**38.2524**	**1.8200e-003**	**0.1992**	**1.0000e-005**		**7.1000e-004**	**7.1000e-004**		**7.1000e-004**	**7.1000e-004**		**0.4263**	**0.4263**	**1.1200e-003**		**0.4545**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Operation_Trucks

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	327.87	1000sqft	13.99	327,874.00	0
Refrigerated Warehouse-No Rail	200.00	1000sqft	13.99	200,000.00	0
Unrefrigerated Warehouse-No Rail	1,377.15	1000sqft	13.99	1,377,153.00	0
Other Asphalt Surfaces	25.21	Acre	25.21	1,098,198.00	0
Other Non-Asphalt Surfaces	9.71	Acre	9.71	0.00	0
Parking Lot	8.12	Acre	8.12	353,766.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	504.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See assumptions file in the AQ/GHG Appendix of the DEIR.

Land Use - See assumptions file in the AQ/GHG appendix of the DEIR.

Construction Phase -

Off-road Equipment - .

Vehicle Trips - Based on information provided by Urban Crossroads. See assumptions file in the AQ/GHG appendix of the DEIR for details.

Area Coating - For on-road truck emissions only.

Energy Use - For on-road truck emissions only.

Water And Wastewater - For on-road truck emissions only.

Solid Waste - For on-road truck emissions only.

Construction Off-road Equipment Mitigation - Assumes forklifts use for warehousing operations would be indoors and CNG-powered.

Energy Mitigation -

Water Mitigation -

Fleet Mix - See assumptions file in the AQ/GHG appendix of the DEIR for details.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	952512	0
tblAreaCoating	Area_Nonresidential_Interior	2857536	0
tblAreaCoating	Area_Parking	87118	0
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblEnergyUse	LightingElect	4.24	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	2.60	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00

tblEnergyUse	T24E	3.07	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	2.92	0.00
tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblFleetMix	HHD	0.06	0.63
tblFleetMix	HHD	0.06	0.54
tblFleetMix	HHD	0.06	0.58
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.1010e-003	0.08
tblFleetMix	LHD2	5.1010e-003	0.10
tblFleetMix	LHD2	5.1010e-003	0.09
tblFleetMix	MCY	5.9030e-003	0.00
tblFleetMix	MCY	5.9030e-003	0.00
tblFleetMix	MCY	5.9030e-003	0.00

tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.4400e-004	0.00
tblFleetMix	MH	9.4400e-004	0.00
tblFleetMix	MH	9.4400e-004	0.00
tblFleetMix	MHD	0.02	0.29
tblFleetMix	MHD	0.02	0.36
tblFleetMix	MHD	0.02	0.33
tblFleetMix	OBUS	1.3570e-003	0.00
tblFleetMix	OBUS	1.3570e-003	0.00
tblFleetMix	OBUS	1.3570e-003	0.00
tblFleetMix	SBUS	8.0800e-004	0.00
tblFleetMix	SBUS	8.0800e-004	0.00
tblFleetMix	SBUS	8.0800e-004	0.00
tblFleetMix	UBUS	1.5650e-003	0.00
tblFleetMix	UBUS	1.5650e-003	0.00
tblFleetMix	UBUS	1.5650e-003	0.00
tblLandUse	LandUseSquareFeet	327,870.00	327,874.00
tblLandUse	LandUseSquareFeet	1,377,150.00	1,377,153.00
tblLandUse	LandUseSquareFeet	1,098,147.60	1,098,198.00
tblLandUse	LandUseSquareFeet	422,967.60	0.00
tblLandUse	LandUseSquareFeet	353,707.20	353,766.00
tblLandUse	LotAcreage	7.53	13.99
tblLandUse	LotAcreage	4.59	13.99
tblLandUse	LotAcreage	31.62	13.99
tblProjectCharacteristics	CO2IntensityFactor	702.44	504.44

tblSolidWaste	SolidWasteGenerationRate	304.92	0.00
tblSolidWaste	SolidWasteGenerationRate	188.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,294.52	0.00
tblVehicleEF	HHD	1.21	0.03
tblVehicleEF	HHD	0.04	0.14
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	3.29	5.95
tblVehicleEF	HHD	0.57	0.67
tblVehicleEF	HHD	1.82	3.7880e-003
tblVehicleEF	HHD	6,933.41	1,124.17
tblVehicleEF	HHD	1,475.79	1,484.27
tblVehicleEF	HHD	5.54	0.03
tblVehicleEF	HHD	26.50	6.08
tblVehicleEF	HHD	2.50	3.42
tblVehicleEF	HHD	20.21	2.10
tblVehicleEF	HHD	9.7780e-003	3.6280e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	9.3550e-003	3.4710e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.8310e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.5000e-005	5.0000e-006
tblVehicleEF	HHD	3.1910e-003	1.6000e-004

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tblVehicleEF	HHD	5.2000e-005	3.0000e-006
tblVehicleEF	HHD	0.08	0.08
tblVehicleEF	HHD	2.1700e-004	7.9100e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	5.0000e-006
tblVehicleEF	HHD	3.1910e-003	1.6000e-004
tblVehicleEF	HHD	0.97	0.50
tblVehicleEF	HHD	5.2000e-005	3.0000e-006
tblVehicleEF	HHD	0.13	0.23
tblVehicleEF	HHD	2.1700e-004	7.9100e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.14	0.03
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tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.39	5.82
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tblVehicleEF	HHD	1,475.79	1,484.27
tblVehicleEF	HHD	5.54	0.03
tblVehicleEF	HHD	27.35	5.90
tblVehicleEF	HHD	2.36	3.23
tblVehicleEF	HHD	20.20	2.10

tblVehicleEF	HHD	8.2750e-003	3.1750e-003
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tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	7.9170e-003	3.0380e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.8310e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	1.6800e-004	1.0000e-005
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tblVehicleEF	HHD	0.79	0.45
tblVehicleEF	HHD	1.1700e-004	7.0000e-006
tblVehicleEF	HHD	0.08	0.08
tblVehicleEF	HHD	2.2100e-004	8.1200e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	1.6800e-004	1.0000e-005
tblVehicleEF	HHD	3.5970e-003	1.8200e-004
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tblVehicleEF	HHD	2.2100e-004	8.1200e-004
tblVehicleEF	HHD	0.06	1.0000e-006

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tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.6980e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.6000e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.5000e-005	5.0000e-006
tblVehicleEF	HHD	3.4760e-003	1.8700e-004
tblVehicleEF	HHD	0.91	0.40
tblVehicleEF	HHD	5.2000e-005	3.0000e-006
tblVehicleEF	HHD	0.08	0.07

tblVehicleEF	HHD	2.3300e-004	8.2900e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.5000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	5.0000e-006
tblVehicleEF	HHD	3.4760e-003	1.8700e-004
tblVehicleEF	HHD	1.05	0.46
tblVehicleEF	HHD	5.2000e-005	3.0000e-006
tblVehicleEF	HHD	0.13	0.08
tblVehicleEF	HHD	2.3300e-004	8.2900e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	LDA	4.2030e-003	2.5110e-003
tblVehicleEF	LDA	5.6230e-003	0.05
tblVehicleEF	LDA	0.57	0.67
tblVehicleEF	LDA	1.19	2.11
tblVehicleEF	LDA	251.29	263.44
tblVehicleEF	LDA	57.15	53.77
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.08	0.18
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tblVehicleEF	LDA	2.2790e-003	1.8540e-003
tblVehicleEF	LDA	1.5460e-003	1.3980e-003
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tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05

tblVehicleEF	LDA	0.01	9.5370e-003
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.22
tblVehicleEF	LDA	2.5170e-003	2.6060e-003
tblVehicleEF	LDA	5.9200e-004	5.3200e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.24
tblVehicleEF	LDA	4.7900e-003	2.8350e-003
tblVehicleEF	LDA	4.6890e-003	0.04
tblVehicleEF	LDA	0.71	0.81
tblVehicleEF	LDA	0.99	1.78
tblVehicleEF	LDA	274.94	285.26
tblVehicleEF	LDA	57.15	53.14
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.6780e-003	1.5180e-003
tblVehicleEF	LDA	2.2790e-003	1.8540e-003
tblVehicleEF	LDA	1.5460e-003	1.3980e-003
tblVehicleEF	LDA	2.0960e-003	1.7050e-003
tblVehicleEF	LDA	0.09	0.11
tblVehicleEF	LDA	0.12	0.11
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.01	0.01

tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	2.7550e-003	2.8220e-003
tblVehicleEF	LDA	5.8800e-004	5.2600e-004
tblVehicleEF	LDA	0.09	0.11
tblVehicleEF	LDA	0.12	0.11
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	4.0860e-003	2.4590e-003
tblVehicleEF	LDA	5.5870e-003	0.05
tblVehicleEF	LDA	0.54	0.64
tblVehicleEF	LDA	1.18	2.11
tblVehicleEF	LDA	245.70	259.38
tblVehicleEF	LDA	57.15	53.78
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.08	0.18
tblVehicleEF	LDA	1.6780e-003	1.5180e-003
tblVehicleEF	LDA	2.2790e-003	1.8540e-003
tblVehicleEF	LDA	1.5460e-003	1.3980e-003
tblVehicleEF	LDA	2.0960e-003	1.7050e-003
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	9.3400e-003
tblVehicleEF	LDA	0.04	0.24

tblVehicleEF	LDA	0.08	0.22
tblVehicleEF	LDA	2.4600e-003	2.5660e-003
tblVehicleEF	LDA	5.9100e-004	5.3200e-004
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.24
tblVehicleEF	LDT1	0.01	7.5760e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.54	1.52
tblVehicleEF	LDT1	3.61	2.38
tblVehicleEF	LDT1	313.68	312.60
tblVehicleEF	LDT1	70.93	65.27
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	0.22	0.30
tblVehicleEF	LDT1	2.7050e-003	2.3390e-003
tblVehicleEF	LDT1	3.6920e-003	2.8340e-003
tblVehicleEF	LDT1	2.4910e-003	2.1530e-003
tblVehicleEF	LDT1	3.3960e-003	2.6050e-003
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.20	0.86
tblVehicleEF	LDT1	0.26	0.42

tblVehicleEF	LDT1	3.1570e-003	3.0930e-003
tblVehicleEF	LDT1	7.7300e-004	6.4600e-004
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.86
tblVehicleEF	LDT1	0.28	0.47
tblVehicleEF	LDT1	0.02	8.4640e-003
tblVehicleEF	LDT1	0.02	0.07
tblVehicleEF	LDT1	1.85	1.80
tblVehicleEF	LDT1	2.97	2.00
tblVehicleEF	LDT1	341.75	335.30
tblVehicleEF	LDT1	70.93	64.45
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.20	0.28
tblVehicleEF	LDT1	2.7050e-003	2.3390e-003
tblVehicleEF	LDT1	3.6920e-003	2.8340e-003
tblVehicleEF	LDT1	2.4910e-003	2.1530e-003
tblVehicleEF	LDT1	3.3960e-003	2.6050e-003
tblVehicleEF	LDT1	0.37	0.36
tblVehicleEF	LDT1	0.41	0.31
tblVehicleEF	LDT1	0.27	0.26
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.20	0.85
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	3.4420e-003	3.3180e-003

tblVehicleEF	LDT1	7.6200e-004	6.3800e-004
tblVehicleEF	LDT1	0.37	0.36
tblVehicleEF	LDT1	0.41	0.31
tblVehicleEF	LDT1	0.27	0.26
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.85
tblVehicleEF	LDT1	0.23	0.40
tblVehicleEF	LDT1	0.01	7.4310e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.47	1.46
tblVehicleEF	LDT1	3.55	2.39
tblVehicleEF	LDT1	307.06	308.38
tblVehicleEF	LDT1	70.93	65.29
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	0.21	0.29
tblVehicleEF	LDT1	2.7050e-003	2.3390e-003
tblVehicleEF	LDT1	3.6920e-003	2.8340e-003
tblVehicleEF	LDT1	2.4910e-003	2.1530e-003
tblVehicleEF	LDT1	3.3960e-003	2.6050e-003
tblVehicleEF	LDT1	0.19	0.19
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.00
tblVehicleEF	LDT1	0.25	0.43
tblVehicleEF	LDT1	3.0890e-003	3.0520e-003
tblVehicleEF	LDT1	7.7200e-004	6.4600e-004

tblVehicleEF	LDT1	0.19	0.19
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.23	1.00
tblVehicleEF	LDT1	0.28	0.47
tblVehicleEF	LDT2	6.3270e-003	4.4090e-003
tblVehicleEF	LDT2	8.1990e-003	0.07
tblVehicleEF	LDT2	0.80	1.00
tblVehicleEF	LDT2	1.67	2.71
tblVehicleEF	LDT2	351.15	333.43
tblVehicleEF	LDT2	79.39	69.80
tblVehicleEF	LDT2	0.09	0.09
tblVehicleEF	LDT2	0.14	0.30
tblVehicleEF	LDT2	1.7270e-003	1.5990e-003
tblVehicleEF	LDT2	2.4170e-003	1.9200e-003
tblVehicleEF	LDT2	1.5880e-003	1.4710e-003
tblVehicleEF	LDT2	2.2220e-003	1.7660e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.11	0.33
tblVehicleEF	LDT2	3.5180e-003	3.2990e-003
tblVehicleEF	LDT2	8.2200e-004	6.9100e-004
tblVehicleEF	LDT2	0.06	0.10

tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.12	0.36
tblVehicleEF	LDT2	7.1840e-003	4.9540e-003
tblVehicleEF	LDT2	6.8290e-003	0.06
tblVehicleEF	LDT2	0.97	1.19
tblVehicleEF	LDT2	1.38	2.27
tblVehicleEF	LDT2	383.36	355.41
tblVehicleEF	LDT2	79.39	68.95
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.13	0.28
tblVehicleEF	LDT2	1.7270e-003	1.5990e-003
tblVehicleEF	LDT2	2.4170e-003	1.9200e-003
tblVehicleEF	LDT2	1.5880e-003	1.4710e-003
tblVehicleEF	LDT2	2.2220e-003	1.7660e-003
tblVehicleEF	LDT2	0.13	0.18
tblVehicleEF	LDT2	0.15	0.16
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.8420e-003	3.5160e-003
tblVehicleEF	LDT2	8.1700e-004	6.8200e-004
tblVehicleEF	LDT2	0.13	0.18
tblVehicleEF	LDT2	0.15	0.16

tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	6.1560e-003	4.3220e-003
tblVehicleEF	LDT2	8.1410e-003	0.07
tblVehicleEF	LDT2	0.75	0.96
tblVehicleEF	LDT2	1.64	2.72
tblVehicleEF	LDT2	343.55	329.34
tblVehicleEF	LDT2	79.39	69.82
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.14	0.30
tblVehicleEF	LDT2	1.7270e-003	1.5990e-003
tblVehicleEF	LDT2	2.4170e-003	1.9200e-003
tblVehicleEF	LDT2	1.5880e-003	1.4710e-003
tblVehicleEF	LDT2	2.2220e-003	1.7660e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.52
tblVehicleEF	LDT2	0.11	0.33
tblVehicleEF	LDT2	3.4410e-003	3.2580e-003
tblVehicleEF	LDT2	8.2200e-004	6.9100e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08

tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.52
tblVehicleEF	LDT2	0.12	0.37
tblVehicleEF	LHD1	5.2170e-003	5.0850e-003
tblVehicleEF	LHD1	0.01	6.1020e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.07	0.75
tblVehicleEF	LHD1	2.60	1.03
tblVehicleEF	LHD1	9.23	9.25
tblVehicleEF	LHD1	609.20	652.45
tblVehicleEF	LHD1	30.40	11.21
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	2.12	1.25
tblVehicleEF	LHD1	0.99	0.32
tblVehicleEF	LHD1	9.6500e-004	8.9000e-004
tblVehicleEF	LHD1	0.01	9.8770e-003
tblVehicleEF	LHD1	0.01	9.8260e-003
tblVehicleEF	LHD1	9.5800e-004	2.6000e-004
tblVehicleEF	LHD1	9.2400e-004	8.5100e-004
tblVehicleEF	LHD1	2.5390e-003	2.4690e-003
tblVehicleEF	LHD1	0.01	9.3750e-003
tblVehicleEF	LHD1	8.8100e-004	2.3900e-004
tblVehicleEF	LHD1	3.7070e-003	3.0390e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8240e-003	1.5810e-003

tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.55
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3570e-003
tblVehicleEF	LHD1	3.5300e-004	1.1100e-004
tblVehicleEF	LHD1	3.7070e-003	3.0390e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8240e-003	1.5810e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.35	0.55
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.2170e-003	5.0990e-003
tblVehicleEF	LHD1	0.01	6.2280e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.09	0.76
tblVehicleEF	LHD1	2.43	0.98
tblVehicleEF	LHD1	9.23	9.25
tblVehicleEF	LHD1	609.20	652.47
tblVehicleEF	LHD1	30.40	11.12
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.98	1.17
tblVehicleEF	LHD1	0.94	0.31
tblVehicleEF	LHD1	9.6500e-004	8.9000e-004
tblVehicleEF	LHD1	0.01	9.8770e-003

tblVehicleEF	LHD1	0.01	9.8260e-003
tblVehicleEF	LHD1	9.5800e-004	2.6000e-004
tblVehicleEF	LHD1	9.2400e-004	8.5100e-004
tblVehicleEF	LHD1	2.5390e-003	2.4690e-003
tblVehicleEF	LHD1	0.01	9.3750e-003
tblVehicleEF	LHD1	8.8100e-004	2.3900e-004
tblVehicleEF	LHD1	7.3080e-003	5.4780e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.1220e-003	3.0450e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.36	0.56
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9770e-003	6.3570e-003
tblVehicleEF	LHD1	3.5000e-004	1.1000e-004
tblVehicleEF	LHD1	7.3080e-003	5.4780e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.1220e-003	3.0450e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.36	0.56
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.2170e-003	5.0870e-003
tblVehicleEF	LHD1	0.01	6.1100e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.18

tblVehicleEF	LHD1	1.07	0.75
tblVehicleEF	LHD1	2.55	1.02
tblVehicleEF	LHD1	9.23	9.25
tblVehicleEF	LHD1	609.20	652.45
tblVehicleEF	LHD1	30.40	11.20
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	2.08	1.23
tblVehicleEF	LHD1	0.97	0.31
tblVehicleEF	LHD1	9.6500e-004	8.9000e-004
tblVehicleEF	LHD1	0.01	9.8770e-003
tblVehicleEF	LHD1	0.01	9.8260e-003
tblVehicleEF	LHD1	9.5800e-004	2.6000e-004
tblVehicleEF	LHD1	9.2400e-004	8.5100e-004
tblVehicleEF	LHD1	2.5390e-003	2.4690e-003
tblVehicleEF	LHD1	0.01	9.3750e-003
tblVehicleEF	LHD1	8.8100e-004	2.3900e-004
tblVehicleEF	LHD1	4.0430e-003	3.1520e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7940e-003	1.6100e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.60
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3570e-003
tblVehicleEF	LHD1	3.5200e-004	1.1100e-004
tblVehicleEF	LHD1	4.0430e-003	3.1520e-003

tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7940e-003	1.6100e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.38	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	3.5950e-003	3.6950e-003
tblVehicleEF	LHD2	4.6110e-003	4.1040e-003
tblVehicleEF	LHD2	8.1370e-003	0.01
tblVehicleEF	LHD2	0.12	0.15
tblVehicleEF	LHD2	0.50	0.50
tblVehicleEF	LHD2	1.20	0.67
tblVehicleEF	LHD2	14.27	14.14
tblVehicleEF	LHD2	608.52	665.25
tblVehicleEF	LHD2	24.46	8.76
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.49	1.36
tblVehicleEF	LHD2	0.53	0.22
tblVehicleEF	LHD2	1.2830e-003	1.3100e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.3700e-004
tblVehicleEF	LHD2	1.2280e-003	1.2540e-003
tblVehicleEF	LHD2	2.6860e-003	2.6560e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.2600e-004
tblVehicleEF	LHD2	1.3070e-003	1.7040e-003

tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.0300e-004	9.2000e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.9200e-003	6.4300e-003
tblVehicleEF	LHD2	2.6700e-004	8.7000e-005
tblVehicleEF	LHD2	1.3070e-003	1.7040e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0300e-004	9.2000e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	3.5950e-003	3.7050e-003
tblVehicleEF	LHD2	4.6760e-003	4.1460e-003
tblVehicleEF	LHD2	7.7630e-003	0.01
tblVehicleEF	LHD2	0.12	0.15
tblVehicleEF	LHD2	0.50	0.50
tblVehicleEF	LHD2	1.13	0.64
tblVehicleEF	LHD2	14.27	14.14
tblVehicleEF	LHD2	608.52	665.25
tblVehicleEF	LHD2	24.46	8.70
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.40	1.28

tblVehicleEF	LHD2	0.50	0.21
tblVehicleEF	LHD2	1.2830e-003	1.3100e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.3700e-004
tblVehicleEF	LHD2	1.2280e-003	1.2540e-003
tblVehicleEF	LHD2	2.6860e-003	2.6560e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.2600e-004
tblVehicleEF	LHD2	2.5220e-003	3.0730e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7630e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.9200e-003	6.4300e-003
tblVehicleEF	LHD2	2.6500e-004	8.6000e-005
tblVehicleEF	LHD2	2.5220e-003	3.0730e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7630e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.5950e-003	3.6960e-003

tblVehicleEF	LHD2	4.6180e-003	4.1080e-003
tblVehicleEF	LHD2	8.0640e-003	0.01
tblVehicleEF	LHD2	0.12	0.15
tblVehicleEF	LHD2	0.50	0.50
tblVehicleEF	LHD2	1.19	0.67
tblVehicleEF	LHD2	14.27	14.14
tblVehicleEF	LHD2	608.52	665.25
tblVehicleEF	LHD2	24.46	8.75
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.46	1.33
tblVehicleEF	LHD2	0.52	0.22
tblVehicleEF	LHD2	1.2830e-003	1.3100e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.3700e-004
tblVehicleEF	LHD2	1.2280e-003	1.2540e-003
tblVehicleEF	LHD2	2.6860e-003	2.6560e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.2600e-004
tblVehicleEF	LHD2	1.3460e-003	1.7140e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.8700e-004	9.2200e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.10	0.34
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004

tblVehicleEF	LHD2	5.9200e-003	6.4300e-003
tblVehicleEF	LHD2	2.6600e-004	8.7000e-005
tblVehicleEF	LHD2	1.3460e-003	1.7140e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.8700e-004	9.2200e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.10	0.34
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	20.55	19.26
tblVehicleEF	MCY	9.93	8.60
tblVehicleEF	MCY	167.73	212.03
tblVehicleEF	MCY	46.45	60.73
tblVehicleEF	MCY	1.16	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8610e-003	1.9650e-003
tblVehicleEF	MCY	3.6730e-003	2.9600e-003
tblVehicleEF	MCY	1.7420e-003	1.8380e-003
tblVehicleEF	MCY	3.4650e-003	2.7870e-003
tblVehicleEF	MCY	1.45	1.42
tblVehicleEF	MCY	0.84	0.80
tblVehicleEF	MCY	0.80	0.78
tblVehicleEF	MCY	2.23	2.33
tblVehicleEF	MCY	0.49	1.91
tblVehicleEF	MCY	2.16	1.84

tblVehicleEF	MCY	2.0770e-003	2.0980e-003
tblVehicleEF	MCY	6.9000e-004	6.0100e-004
tblVehicleEF	MCY	1.45	1.42
tblVehicleEF	MCY	0.84	0.80
tblVehicleEF	MCY	0.80	0.78
tblVehicleEF	MCY	2.74	2.87
tblVehicleEF	MCY	0.49	1.91
tblVehicleEF	MCY	2.35	2.01
tblVehicleEF	MCY	0.42	0.34
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	20.68	19.28
tblVehicleEF	MCY	9.05	7.90
tblVehicleEF	MCY	167.73	211.90
tblVehicleEF	MCY	46.45	58.88
tblVehicleEF	MCY	0.99	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8610e-003	1.9650e-003
tblVehicleEF	MCY	3.6730e-003	2.9600e-003
tblVehicleEF	MCY	1.7420e-003	1.8380e-003
tblVehicleEF	MCY	3.4650e-003	2.7870e-003
tblVehicleEF	MCY	3.14	2.77
tblVehicleEF	MCY	1.27	1.11
tblVehicleEF	MCY	2.13	1.77
tblVehicleEF	MCY	2.17	2.28
tblVehicleEF	MCY	0.49	1.88
tblVehicleEF	MCY	1.86	1.62
tblVehicleEF	MCY	2.0770e-003	2.0970e-003

tblVehicleEF	MCY	6.6700e-004	5.8300e-004
tblVehicleEF	MCY	3.14	2.77
tblVehicleEF	MCY	1.27	1.11
tblVehicleEF	MCY	2.13	1.77
tblVehicleEF	MCY	2.67	2.81
tblVehicleEF	MCY	0.49	1.88
tblVehicleEF	MCY	2.02	1.76
tblVehicleEF	MCY	0.42	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.63	18.76
tblVehicleEF	MCY	9.55	8.44
tblVehicleEF	MCY	167.73	211.17
tblVehicleEF	MCY	46.45	60.38
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8610e-003	1.9650e-003
tblVehicleEF	MCY	3.6730e-003	2.9600e-003
tblVehicleEF	MCY	1.7420e-003	1.8380e-003
tblVehicleEF	MCY	3.4650e-003	2.7870e-003
tblVehicleEF	MCY	1.71	1.57
tblVehicleEF	MCY	1.13	1.06
tblVehicleEF	MCY	0.72	0.74
tblVehicleEF	MCY	2.19	2.31
tblVehicleEF	MCY	0.56	2.18
tblVehicleEF	MCY	2.08	1.81
tblVehicleEF	MCY	2.0610e-003	2.0900e-003
tblVehicleEF	MCY	6.8200e-004	5.9800e-004

tblVehicleEF	MCY	1.71	1.57
tblVehicleEF	MCY	1.13	1.06
tblVehicleEF	MCY	0.72	0.74
tblVehicleEF	MCY	2.69	2.84
tblVehicleEF	MCY	0.56	2.18
tblVehicleEF	MCY	2.27	1.98
tblVehicleEF	MDV	0.01	5.5200e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.35	1.13
tblVehicleEF	MDV	3.25	3.24
tblVehicleEF	MDV	483.94	412.47
tblVehicleEF	MDV	107.92	86.76
tblVehicleEF	MDV	0.17	0.11
tblVehicleEF	MDV	0.32	0.38
tblVehicleEF	MDV	1.8260e-003	1.6820e-003
tblVehicleEF	MDV	2.5170e-003	2.0280e-003
tblVehicleEF	MDV	1.6830e-003	1.5510e-003
tblVehicleEF	MDV	2.3150e-003	1.8650e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MDV	4.8500e-003	4.0780e-003
tblVehicleEF	MDV	1.1370e-003	8.5900e-004
tblVehicleEF	MDV	0.10	0.11

tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.28	0.48
tblVehicleEF	MDV	0.01	6.2110e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.64	1.35
tblVehicleEF	MDV	2.69	2.71
tblVehicleEF	MDV	526.85	435.67
tblVehicleEF	MDV	107.92	85.71
tblVehicleEF	MDV	0.16	0.10
tblVehicleEF	MDV	0.30	0.35
tblVehicleEF	MDV	1.8260e-003	1.6820e-003
tblVehicleEF	MDV	2.5170e-003	2.0280e-003
tblVehicleEF	MDV	1.6830e-003	1.5510e-003
tblVehicleEF	MDV	2.3150e-003	1.8650e-003
tblVehicleEF	MDV	0.20	0.21
tblVehicleEF	MDV	0.23	0.19
tblVehicleEF	MDV	0.17	0.19
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.49
tblVehicleEF	MDV	0.21	0.38
tblVehicleEF	MDV	5.2830e-003	4.3080e-003
tblVehicleEF	MDV	1.1260e-003	8.4800e-004
tblVehicleEF	MDV	0.20	0.21
tblVehicleEF	MDV	0.23	0.19

tblVehicleEF	MDV	0.17	0.19
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.49
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	0.01	5.4050e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.28	1.09
tblVehicleEF	MDV	3.20	3.25
tblVehicleEF	MDV	473.93	408.15
tblVehicleEF	MDV	107.92	86.78
tblVehicleEF	MDV	0.16	0.10
tblVehicleEF	MDV	0.32	0.38
tblVehicleEF	MDV	1.8260e-003	1.6820e-003
tblVehicleEF	MDV	2.5170e-003	2.0280e-003
tblVehicleEF	MDV	1.6830e-003	1.5510e-003
tblVehicleEF	MDV	2.3150e-003	1.8650e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.57
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MDV	4.7490e-003	4.0360e-003
tblVehicleEF	MDV	1.1360e-003	8.5900e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.08	0.10

tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.57
tblVehicleEF	MDV	0.27	0.48
tblVehicleEF	MH	0.04	3.6580e-003
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tblVehicleEF	MH	3.07	0.35
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tblVehicleEF	MH	0.91	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.11
tblVehicleEF	MH	1.0790e-003	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	9.1720e-003
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tblVehicleEF	MH	0.09	0.00

tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.14	0.09
tblVehicleEF	MH	0.03	0.00
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tblVehicleEF	MH	0.04	0.11
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tblVehicleEF	MH	0.03	0.00
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tblVehicleEF	MHD	0.02	0.02

tblVehicleEF	MHD	6.5100e-004	2.4000e-004
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tblVehicleEF	MHD	0.02	0.08
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tblVehicleEF	MHD	1.2800e-003	4.5300e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.5100e-004	2.4000e-004
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	0.02	0.08
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tblVehicleEF	MHD	3.5800e-003	3.3450e-003
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tblVehicleEF	MHD	3.2500e-004	1.0410e-003

tblVehicleEF	MHD	5.0030e-003	0.04
tblVehicleEF	MHD	7.6400e-004	7.5000e-005
tblVehicleEF	MHD	3.1100e-004	9.9600e-004
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	6.9000e-005
tblVehicleEF	MHD	2.5300e-003	8.2800e-004
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tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5010e-003	4.7800e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.08
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tblVehicleEF	MHD	1.5950e-003	6.5900e-004
tblVehicleEF	MHD	0.01	9.2620e-003
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tblVehicleEF	MHD	2.5300e-003	8.2800e-004
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tblVehicleEF	MHD	0.02	0.08
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tblVehicleEF	MHD	5.0030e-003	0.04
tblVehicleEF	MHD	7.6400e-004	7.5000e-005
tblVehicleEF	MHD	4.4900e-004	1.4300e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	6.9000e-005
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tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.4000e-004	2.4400e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.32	0.03
tblVehicleEF	MHD	1.3860e-003	6.4400e-004
tblVehicleEF	MHD	0.01	9.2620e-003
tblVehicleEF	MHD	6.1600e-004	6.3000e-005
tblVehicleEF	MHD	1.3890e-003	4.7100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.4000e-004	2.4400e-004

tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.35	0.04
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tblVehicleEF	OBUS	9.9110e-003	6.5960e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.52
tblVehicleEF	OBUS	0.63	0.77
tblVehicleEF	OBUS	6.27	2.45
tblVehicleEF	OBUS	70.35	76.06
tblVehicleEF	OBUS	1,121.50	1,406.90
tblVehicleEF	OBUS	70.70	20.49
tblVehicleEF	OBUS	0.28	0.34
tblVehicleEF	OBUS	0.97	1.24
tblVehicleEF	OBUS	1.93	0.68
tblVehicleEF	OBUS	6.4000e-005	5.8900e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.1800e-004
tblVehicleEF	OBUS	6.1000e-005	5.6400e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.0100e-004
tblVehicleEF	OBUS	2.1800e-003	2.6020e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.3100e-004	1.1160e-003
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.05	0.29

tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	6.8400e-004	7.2500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1700e-004	2.0300e-004
tblVehicleEF	OBUS	2.1800e-003	2.6020e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.3100e-004	1.1160e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.42	0.13
tblVehicleEF	OBUS	0.01	8.8750e-003
tblVehicleEF	OBUS	0.01	6.7350e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.51
tblVehicleEF	OBUS	0.65	0.79
tblVehicleEF	OBUS	5.74	2.28
tblVehicleEF	OBUS	73.50	75.90
tblVehicleEF	OBUS	1,121.50	1,406.93
tblVehicleEF	OBUS	70.70	20.20
tblVehicleEF	OBUS	0.29	0.34
tblVehicleEF	OBUS	0.90	1.16
tblVehicleEF	OBUS	1.88	0.67
tblVehicleEF	OBUS	5.4000e-005	5.0100e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.1800e-004
tblVehicleEF	OBUS	5.1000e-005	4.7900e-004

tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.0100e-004
tblVehicleEF	OBUS	4.2350e-003	4.6860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.1330e-003	2.2090e-003
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.11
tblVehicleEF	OBUS	7.1400e-004	7.2400e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0800e-004	2.0000e-004
tblVehicleEF	OBUS	4.2350e-003	4.6860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	2.1330e-003	2.2090e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.40	0.12
tblVehicleEF	OBUS	0.01	8.7740e-003
tblVehicleEF	OBUS	9.9380e-003	6.6000e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.53
tblVehicleEF	OBUS	0.63	0.77
tblVehicleEF	OBUS	6.22	2.45
tblVehicleEF	OBUS	66.00	76.30
tblVehicleEF	OBUS	1,121.50	1,406.90

tblVehicleEF	OBUS	70.70	20.50
tblVehicleEF	OBUS	0.27	0.35
tblVehicleEF	OBUS	0.96	1.22
tblVehicleEF	OBUS	1.91	0.68
tblVehicleEF	OBUS	7.7000e-005	7.1200e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.1800e-004
tblVehicleEF	OBUS	7.4000e-005	6.8100e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.0100e-004
tblVehicleEF	OBUS	2.3200e-003	2.7390e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.4100e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.05	0.30
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	6.4200e-004	7.2700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1600e-004	2.0300e-004
tblVehicleEF	OBUS	2.3200e-003	2.7390e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.4100e-004	1.1650e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.30
tblVehicleEF	OBUS	0.42	0.13

tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	0.01	8.5840e-003
tblVehicleEF	SBUS	0.07	6.1570e-003
tblVehicleEF	SBUS	5.71	2.50
tblVehicleEF	SBUS	0.65	0.78
tblVehicleEF	SBUS	5.33	0.82
tblVehicleEF	SBUS	1,258.13	345.06
tblVehicleEF	SBUS	1,136.31	1,112.17
tblVehicleEF	SBUS	37.11	4.79
tblVehicleEF	SBUS	11.70	3.29
tblVehicleEF	SBUS	4.77	5.20
tblVehicleEF	SBUS	15.02	0.91
tblVehicleEF	SBUS	0.01	4.3580e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	4.1690e-003
tblVehicleEF	SBUS	2.7560e-003	2.7010e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	3.6000e-005
tblVehicleEF	SBUS	2.9260e-003	1.2420e-003
tblVehicleEF	SBUS	0.02	9.5120e-003
tblVehicleEF	SBUS	0.68	0.28
tblVehicleEF	SBUS	1.3050e-003	5.9000e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	9.3510e-003	0.06
tblVehicleEF	SBUS	0.27	0.04

tblVehicleEF	SBUS	0.01	3.2890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6300e-004	4.7000e-005
tblVehicleEF	SBUS	2.9260e-003	1.2420e-003
tblVehicleEF	SBUS	0.02	9.5120e-003
tblVehicleEF	SBUS	0.97	0.40
tblVehicleEF	SBUS	1.3050e-003	5.9000e-004
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	9.3510e-003	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	0.01	8.7140e-003
tblVehicleEF	SBUS	0.06	5.1550e-003
tblVehicleEF	SBUS	5.56	2.47
tblVehicleEF	SBUS	0.66	0.80
tblVehicleEF	SBUS	3.65	0.60
tblVehicleEF	SBUS	1,322.00	352.98
tblVehicleEF	SBUS	1,136.31	1,112.20
tblVehicleEF	SBUS	37.11	4.41
tblVehicleEF	SBUS	12.08	3.36
tblVehicleEF	SBUS	4.47	4.88
tblVehicleEF	SBUS	14.99	0.90
tblVehicleEF	SBUS	0.01	3.6810e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	4.0000e-005
tblVehicleEF	SBUS	9.6490e-003	3.5220e-003

tblVehicleEF	SBUS	2.7560e-003	2.7010e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	3.6000e-005
tblVehicleEF	SBUS	5.6170e-003	2.2080e-003
tblVehicleEF	SBUS	0.02	9.9850e-003
tblVehicleEF	SBUS	0.67	0.28
tblVehicleEF	SBUS	2.8800e-003	1.1130e-003
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	8.5310e-003	0.06
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3630e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.3500e-004	4.4000e-005
tblVehicleEF	SBUS	5.6170e-003	2.2080e-003
tblVehicleEF	SBUS	0.02	9.9850e-003
tblVehicleEF	SBUS	0.97	0.40
tblVehicleEF	SBUS	2.8800e-003	1.1130e-003
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	8.5310e-003	0.06
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	0.01	8.5760e-003
tblVehicleEF	SBUS	0.07	6.3440e-003
tblVehicleEF	SBUS	5.91	2.56
tblVehicleEF	SBUS	0.65	0.78
tblVehicleEF	SBUS	5.37	0.86
tblVehicleEF	SBUS	1,169.92	334.13

tblVehicleEF	SBUS	1,136.31	1,112.17
tblVehicleEF	SBUS	37.11	4.85
tblVehicleEF	SBUS	11.19	3.19
tblVehicleEF	SBUS	4.69	5.12
tblVehicleEF	SBUS	15.02	0.91
tblVehicleEF	SBUS	0.01	5.2920e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	5.0630e-003
tblVehicleEF	SBUS	2.7560e-003	2.7010e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	3.6000e-005
tblVehicleEF	SBUS	2.9580e-003	1.2070e-003
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.68	0.28
tblVehicleEF	SBUS	1.2820e-003	6.0100e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.08
tblVehicleEF	SBUS	0.28	0.04
tblVehicleEF	SBUS	0.01	3.1850e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6400e-004	4.8000e-005
tblVehicleEF	SBUS	2.9580e-003	1.2070e-003
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.98	0.40
tblVehicleEF	SBUS	1.2820e-003	6.0100e-004

tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.01	0.08
tblVehicleEF	SBUS	0.31	0.04
tblVehicleEF	UBUS	1.83	4.45
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	9.26	34.75
tblVehicleEF	UBUS	14.34	0.89
tblVehicleEF	UBUS	1,846.39	1,692.13
tblVehicleEF	UBUS	136.37	11.77
tblVehicleEF	UBUS	5.87	0.38
tblVehicleEF	UBUS	13.57	0.14
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6550e-003
tblVehicleEF	UBUS	1.4030e-003	1.4100e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5280e-003
tblVehicleEF	UBUS	1.2900e-003	1.3000e-004
tblVehicleEF	UBUS	8.0860e-003	1.6780e-003
tblVehicleEF	UBUS	0.11	9.5390e-003
tblVehicleEF	UBUS	3.9450e-003	7.3700e-004
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.15	0.04
tblVehicleEF	UBUS	0.01	3.0250e-003
tblVehicleEF	UBUS	1.6240e-003	1.1700e-004

tblVehicleEF	UBUS	8.0860e-003	1.6780e-003
tblVehicleEF	UBUS	0.11	9.5390e-003
tblVehicleEF	UBUS	3.9450e-003	7.3700e-004
tblVehicleEF	UBUS	2.50	4.54
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.25	0.04
tblVehicleEF	UBUS	1.83	4.45
tblVehicleEF	UBUS	0.08	9.2350e-003
tblVehicleEF	UBUS	9.36	34.75
tblVehicleEF	UBUS	11.74	0.76
tblVehicleEF	UBUS	1,846.39	1,692.13
tblVehicleEF	UBUS	136.37	11.55
tblVehicleEF	UBUS	5.45	0.38
tblVehicleEF	UBUS	13.45	0.13
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6550e-003
tblVehicleEF	UBUS	1.4030e-003	1.4100e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5280e-003
tblVehicleEF	UBUS	1.2900e-003	1.3000e-004
tblVehicleEF	UBUS	0.02	3.0610e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4840e-003
tblVehicleEF	UBUS	0.62	0.07
tblVehicleEF	UBUS	0.02	0.04

tblVehicleEF	UBUS	1.02	0.03
tblVehicleEF	UBUS	0.01	3.0250e-003
tblVehicleEF	UBUS	1.5790e-003	1.1400e-004
tblVehicleEF	UBUS	0.02	3.0610e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4840e-003
tblVehicleEF	UBUS	2.52	4.54
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.12	0.04
tblVehicleEF	UBUS	1.83	4.45
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	9.27	34.75
tblVehicleEF	UBUS	13.86	0.90
tblVehicleEF	UBUS	1,846.39	1,692.13
tblVehicleEF	UBUS	136.37	11.80
tblVehicleEF	UBUS	5.76	0.38
tblVehicleEF	UBUS	13.55	0.14
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6550e-003
tblVehicleEF	UBUS	1.4030e-003	1.4100e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5280e-003
tblVehicleEF	UBUS	1.2900e-003	1.3000e-004
tblVehicleEF	UBUS	9.2250e-003	1.6870e-003
tblVehicleEF	UBUS	0.14	0.01

tblVehicleEF	UBUS	4.1190e-003	7.4500e-004
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.13	0.04
tblVehicleEF	UBUS	0.01	3.0250e-003
tblVehicleEF	UBUS	1.6160e-003	1.1700e-004
tblVehicleEF	UBUS	9.2250e-003	1.6870e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	4.1190e-003	7.4500e-004
tblVehicleEF	UBUS	2.50	4.54
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.24	0.04
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	33.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	15.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	82.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.64	0.44
tblVehicleTrips	ST_TR	1.68	0.69
tblVehicleTrips	ST_TR	1.68	0.29
tblVehicleTrips	SU_TR	0.76	0.44
tblVehicleTrips	SU_TR	1.68	0.69
tblVehicleTrips	SU_TR	1.68	0.28
tblVehicleTrips	WD_TR	11.42	0.44
tblVehicleTrips	WD_TR	1.68	0.69
tblVehicleTrips	WD_TR	1.68	0.37
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	58,273,563.95	0.00
tblWater	IndoorWaterUseRate	46,250,000.00	0.00
tblWater	IndoorWaterUseRate	318,465,937.50	0.00
tblWater	OutdoorWaterUseRate	35,716,055.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

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	6.9800	2.3000e-004	0.0249	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0484	0.0484	1.3000e-004	0.0000	0.0515
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.9725	33.7666	7.7611	0.1390	4.9255	0.3551	5.2806	1.4019	0.3397	1.7416	0.0000	13,901.5220	13,901.5220	0.8962	0.0000	13,923.9264
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**7.9525**	**33.7668**	**7.7860**	**0.1390**	**4.9255**	**0.3552**	**5.2807**	**1.4019**	**0.3398**	**1.7417**	**0.0000**	**13,901.5703**	**13,901.5703**	**0.8963**	**0.0000**	**13,923.9779**

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	6.9800	2.3000e-004	0.0249	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0484	0.0484	1.3000e-004	0.0000	0.0515
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.9725	33.7666	7.7611	0.1390	4.9255	0.3551	5.2806	1.4019	0.3397	1.7416	0.0000	13,901.5220	13,901.5220	0.8962	0.0000	13,923.9264
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**7.9525**	**33.7668**	**7.7860**	**0.1390**	**4.9255**	**0.3552**	**5.2807**	**1.4019**	**0.3398**	**1.7417**	**0.0000**	**13,901.5703**	**13,901.5703**	**0.8963**	**0.0000**	**13,923.9779**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

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	tons/yr										MT/yr					
Mitigated	0.9725	33.7666	7.7611	0.1390	4.9255	0.3551	5.2806	1.4019	0.3397	1.7416	0.0000	13,901.5220	13,901.5220	0.8962	0.0000	13,923.9264
Unmitigated	0.9725	33.7666	7.7611	0.1390	4.9255	0.3551	5.2806	1.4019	0.3397	1.7416	0.0000	13,901.5220	13,901.5220	0.8962	0.0000	13,923.9264

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Office Park	144.26	144.26	144.26	2,100,466	2,100,466
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	138.00	138.00	138.00	2,009,280	2,009,280
Unrefrigerated Warehouse-No Rail	509.55	399.37	385.60	6,932,022	6,932,022
Total	791.81	681.64	667.86	11,041,769	11,041,769

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Office Park	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	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
Refrigerated Warehouse-No Rail	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No Rail	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.082031	0.292969	0.625000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.101449	0.362319	0.536232	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.091074	0.325268	0.583658	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	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	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Office Park	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
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Refrigerated Warehouse-No Rail	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
Office Park	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
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Refrigerated Warehouse-No Rail	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
Unrefrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Office Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Office Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.9800	2.3000e-004	0.0249	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0484	0.0484	1.3000e-004	0.0000	0.0515
Unmitigated	6.9800	2.3000e-004	0.0249	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0484	0.0484	1.3000e-004	0.0000	0.0515

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.9777					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.3200e-003	2.3000e-004	0.0249	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0484	0.0484	1.3000e-004	0.0000	0.0515
Total	**6.9800**	**2.3000e-004**	**0.0249**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**	**0.0000**	**0.0484**	**0.0484**	**1.3000e-004**	**0.0000**	**0.0515**

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.9777					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.3200e-003	2.3000e-004	0.0249	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0484	0.0484	1.3000e-004	0.0000	0.0515
Total	**6.9800**	**2.3000e-004**	**0.0249**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**	**0.0000**	**0.0484**	**0.0484**	**1.3000e-004**	**0.0000**	**0.0515**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Office Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Office Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Office Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Office Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

CalEEMod Output: Operation – Phase 1 Area Mitigated

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Phase 1 Operation_Area Sources Mitigation

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	200.00	1000sqft	4.59	200,000.00	0
Unrefrigerated Warehouse-No Rail	1,247.12	1000sqft	28.15	1,247,123.00	0
Other Asphalt Surfaces	16.22	Acre	16.22	706,467.00	0
Other Non-Asphalt Surfaces	6.72	Acre	6.72	292,958.00	0
Parking Lot	6.32	Acre	6.32	275,315.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2021
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions file in the AQ/GHG appendix for details.

Construction Phase - Operation architectural coating only

Off-road Equipment -

Off-road Equipment - Based on information provided. See the assumptions file in the AQ/GHG appendix for details.

Trips and VMT - See assumptions file in the AQ/GHG appendix for details.

Demolition -

Grading -

Architectural Coating - See assumptions file in the AQ/GHG appendix for details. Mitigation measure.

Area Coating - See assumptions file in AQ/GHG appendix.

Construction Off-road Equipment Mitigation - Based on SCAQMD Rules 403 and 1186.

Area Mitigation - Mitigation

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	76484	16519
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	25
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	25
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	110.00	1.00
tblGrading	AcresOfGrading	3.00	0.50
tblLandUse	LandUseSquareFeet	1,247,120.00	1,247,123.00
tblLandUse	LandUseSquareFeet	706,543.20	706,467.00
tblLandUse	LandUseSquareFeet	292,723.20	292,958.00
tblLandUse	LandUseSquareFeet	275,299.20	275,315.00
tblLandUse	LotAcreage	28.63	28.15
tblOffRoadEquipment	HorsePower	212.00	257.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,172.29	1,153.49
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	WorkerTripNumber	13.00	3.00

tblWater	IndoorWaterUseRate	288,396,500.00	283,771,500.00

2.0 Emissions Summary

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					
2020	4.1873	49.7089	25.3548	0.0592	6.6755	1.9555	8.6310	3.4022	1.7993	5.2015	0.0000	5,764.7963	5,764.7963	1.7510	0.0000	5,808.5712
Maximum	**4.1873**	**49.7089**	**25.3548**	**0.0592**	**6.6755**	**1.9555**	**8.6310**	**3.4022**	**1.7993**	**5.2015**	**0.0000**	**5,764.7963**	**5,764.7963**	**1.7510**	**0.0000**	**5,808.5712**

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					
2020	3.7170	43.1566	25.5741	0.0592	2.9160	1.6965	4.6125	1.4723	1.5623	3.0346	0.0000	5,764.7963	5,764.7963	1.7510	0.0000	5,808.5712
Maximum	**3.7170**	**43.1566**	**25.5741**	**0.0592**	**2.9160**	**1.6965**	**4.6125**	**1.4723**	**1.5623**	**3.0346**	**0.0000**	**5,764.7963**	**5,764.7963**	**1.7510**	**0.0000**	**5,808.5712**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**11.23**	**13.18**	**-0.86**	**0.00**	**56.32**	**13.24**	**46.56**	**56.73**	**13.17**	**41.66**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	32.8150	1.3900e-003	0.1513	1.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		0.3231	0.3231	8.6000e-004		0.3446
Energy	0.3807	3.4606	2.9069	0.0208		0.2630	0.2630		0.2630	0.2630		4,152.6703	4,152.6703	0.0796	0.0761	4,177.3476
Mobile	6.0368	39.2269	80.4851	0.3016	22.2149	0.2111	22.4259	5.9448	0.1979	6.1427		30,727.2952	30,727.2952	1.4433		30,763.3786
Total	**39.2324**	**42.6889**	**83.5433**	**0.3224**	**22.2149**	**0.4746**	**22.6895**	**5.9448**	**0.4615**	**6.4062**		**34,880.2886**	**34,880.2886**	**1.5238**	**0.0761**	**34,941.0707**

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	30.0399	7.7000e-004	0.0877	1.0000e-005		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1741	0.1741	3.6000e-004		0.1832
Energy	0.3807	3.4606	2.9069	0.0208		0.2630	0.2630		0.2630	0.2630		4,152.6703	4,152.6703	0.0796	0.0761	4,177.3476
Mobile	6.0368	39.2269	80.4851	0.3016	22.2149	0.2111	22.4259	5.9448	0.1979	6.1427		30,727.2952	30,727.2952	1.4433		30,763.3786
Total	**36.4573**	**42.6883**	**83.4797**	**0.3224**	**22.2149**	**0.4743**	**22.6892**	**5.9448**	**0.4611**	**6.4059**		**34,880.1396**	**34,880.1396**	**1.5233**	**0.0761**	**34,940.9094**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**7.07**	**0.00**	**0.08**	**0.00**	**0.00**	**0.07**	**0.00**	**0.00**	**0.07**	**0.00**	**0.00**	**0.00**	**0.00**	**0.03**	**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	Rough Grading	Grading	12/1/2020	12/1/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 29.26

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grading	Crawler Tractors	1	8.00	257	0.43
Rough Grading	Excavators	0	8.00	158	0.38
Rough Grading	Graders	1	8.00	187	0.41
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Scrapers	2	8.00	367	0.48
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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
Rough Grading	5	3.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Rough Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	4.1284	48.2210	24.9319	0.0550		1.9485	1.9485		1.7926	1.7926		5,330.3519	5,330.3519	1.7239		5,373.4504
Total	**4.1284**	**48.2210**	**24.9319**	**0.0550**	**6.5523**	**1.9485**	**8.5008**	**3.3675**	**1.7926**	**5.1601**		**5,330.3519**	**5,330.3519**	**1.7239**		**5,373.4504**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0425	1.4774	0.2879	3.8000e-003	0.0897	6.8000e-003	0.0965	0.0258	6.5000e-003	0.0323		400.5419	400.5419	0.0260		401.1924
Worker	0.0164	0.0105	0.1349	3.4000e-004	0.0335	2.2000e-004	0.0338	8.8900e-003	2.0000e-004	9.1000e-003		33.9025	33.9025	1.0300e-003		33.9284
Total	**0.0589**	**1.4879**	**0.4229**	**4.1400e-003**	**0.1232**	**7.0200e-003**	**0.1302**	**0.0347**	**6.7000e-003**	**0.0414**		**434.4445**	**434.4445**	**0.0271**		**435.1208**

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					2.8011	0.0000	2.8011	1.4396	0.0000	1.4396			0.0000			0.0000
Off-Road	3.6581	41.6687	25.1512	0.0550		1.6895	1.6895		1.5556	1.5556	0.0000	5,330.3519	5,330.3519	1.7239		5,373.4504
Total	**3.6581**	**41.6687**	**25.1512**	**0.0550**	**2.8011**	**1.6895**	**4.4906**	**1.4396**	**1.5556**	**2.9952**	**0.0000**	**5,330.3519**	**5,330.3519**	**1.7239**		**5,373.4504**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0425	1.4774	0.2879	3.8000e-003	0.0839	6.8000e-003	0.0907	0.0244	6.5000e-003	0.0309		400.5419	400.5419	0.0260		401.1924
Worker	0.0164	0.0105	0.1349	3.4000e-004	0.0309	2.2000e-004	0.0311	8.2500e-003	2.0000e-004	8.4500e-003		33.9025	33.9025	1.0300e-003		33.9284
Total	**0.0589**	**1.4879**	**0.4229**	**4.1400e-003**	**0.1148**	**7.0200e-003**	**0.1219**	**0.0327**	**6.7000e-003**	**0.0394**		**434.4445**	**434.4445**	**0.0271**		**435.1208**

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	6.0368	39.2269	80.4851	0.3016	22.2149	0.2111	22.4259	5.9448	0.1979	6.1427		30,727.2952	30,727.2952	1.4433		30,763.3786
Unmitigated	6.0368	39.2269	80.4851	0.3016	22.2149	0.2111	22.4259	5.9448	0.1979	6.1427		30,727.2952	30,727.2952	1.4433		30,763.3786

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	336.00	336.00	336.00	1,440,001	1,440,001
Unrefrigerated Warehouse-No Rail	2,095.16	2,095.16	2095.16	8,979,269	8,979,269
Total	2,431.16	2,431.16	2,431.16	10,419,270	10,419,270

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	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
Refrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010

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	lb/day										lb/day					
NaturalGas Mitigated	0.3807	3.4606	2.9069	0.0208		0.2630	0.2630		0.2630	0.2630		4,152.6703	4,152.6703	0.0796	0.0761	4,177.3476
NaturalGas Unmitigated	0.3807	3.4606	2.9069	0.0208		0.2630	0.2630		0.2630	0.2630		4,152.6703	4,152.6703	0.0796	0.0761	4,177.3476

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Refrigerated Warehouse-No Rail	28361.6	0.3059	2.7806	2.3357	0.0167		0.2113	0.2113		0.2113	0.2113		3,336.6640	3,336.6640	0.0640	0.0612	3,356.4921
Unrefrigerated Warehouse-No Rail	6936.05	0.0748	0.6800	0.5712	4.0800e-003		0.0517	0.0517		0.0517	0.0517		816.0064	816.0064	0.0156	0.0150	820.8555
Total		**0.3807**	**3.4606**	**2.9069**	**0.0208**		**0.2630**	**0.2630**		**0.2630**	**0.2630**		**4,152.6703**	**4,152.6703**	**0.0796**	**0.0761**	**4,177.3476**

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Refrigerated Warehouse-No Rail	28.3616	0.3059	2.7806	2.3357	0.0167		0.2113	0.2113		0.2113	0.2113		3,336.6640	3,336.6640	0.0640	0.0612	3,356.4921
Unrefrigerated Warehouse-No Rail	6.93605	0.0748	0.6800	0.5712	4.0800e-003		0.0517	0.0517		0.0517	0.0517		816.0064	816.0064	0.0156	0.0150	820.8555
Total		**0.3807**	**3.4606**	**2.9069**	**0.0208**		**0.2630**	**0.2630**		**0.2630**	**0.2630**		**4,152.6703**	**4,152.6703**	**0.0796**	**0.0761**	**4,177.3476**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	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	30.0399	7.7000e-004	0.0877	1.0000e-005		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1741	0.1741	3.6000e-004		0.1832
Unmitigated	32.8150	1.3900e-003	0.1513	1.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		0.3231	0.3231	8.6000e-004		0.3446

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	3.6963					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	29.1046					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0141	1.3900e-003	0.1513	1.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		0.3231	0.3231	8.6000e-004		0.3446
Total	**32.8150**	**1.3900e-003**	**0.1513**	**1.0000e-005**		**5.4000e-004**	**5.4000e-004**		**5.4000e-004**	**5.4000e-004**		**0.3231**	**0.3231**	**8.6000e-004**		**0.3446**

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	0.9293					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	29.1046					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9900e-003	7.7000e-004	0.0877	1.0000e-005		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1741	0.1741	3.6000e-004		0.1832
Total	**30.0399**	**7.7000e-004**	**0.0877**	**1.0000e-005**		**2.3000e-004**	**2.3000e-004**		**2.3000e-004**	**2.3000e-004**		**0.1741**	**0.1741**	**3.6000e-004**		**0.1832**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Phase 1 Operation_Area Sources Mitigation

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	200.00	1000sqft	4.59	200,000.00	0
Unrefrigerated Warehouse-No Rail	1,247.12	1000sqft	28.15	1,247,123.00	0
Other Asphalt Surfaces	16.22	Acre	16.22	706,467.00	0
Other Non-Asphalt Surfaces	6.72	Acre	6.72	292,958.00	0
Parking Lot	6.32	Acre	6.32	275,315.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2021
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions file in the AQ/GHG appendix for details.

Construction Phase - Operation architectural coating only

Off-road Equipment -

Off-road Equipment - Based on information provided. See the assumptions file in the AQ/GHG appendix for details.

Trips and VMT - See assumptions file in the AQ/GHG appendix for details.

Demolition -

Grading -

Architectural Coating - See assumptions file in the AQ/GHG appendix for details. Mitigation measure.

Area Coating - See assumptions file in AQ/GHG appendix.

Construction Off-road Equipment Mitigation - Based on SCAQMD Rules 403 and 1186.

Area Mitigation - Mitigation

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	76484	16519
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	25
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	25
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	110.00	1.00
tblGrading	AcresOfGrading	3.00	0.50
tblLandUse	LandUseSquareFeet	1,247,120.00	1,247,123.00
tblLandUse	LandUseSquareFeet	706,543.20	706,467.00
tblLandUse	LandUseSquareFeet	292,723.20	292,958.00
tblLandUse	LandUseSquareFeet	275,299.20	275,315.00
tblLandUse	LotAcreage	28.63	28.15
tblOffRoadEquipment	HorsePower	212.00	257.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,172.29	1,153.49
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	WorkerTripNumber	13.00	3.00
tblWater	IndoorWaterUseRate	288,396,500.00	283,771,500.00

2.0 Emissions Summary

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					
2020	4.1896	49.6975	25.3765	0.0590	6.6755	1.9556	8.6311	3.4022	1.7994	5.2016	0.0000	5,745.7645	5,745.7645	1.7536	0.0000	5,789.6049
Maximum	**4.1896**	**49.6975**	**25.3765**	**0.0590**	**6.6755**	**1.9556**	**8.6311**	**3.4022**	**1.7994**	**5.2016**	**0.0000**	**5,745.7645**	**5,745.7645**	**1.7536**	**0.0000**	**5,789.6049**

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					
2020	3.7193	43.1452	25.5958	0.0590	2.9160	1.6966	4.6126	1.4723	1.5624	3.0347	0.0000	5,745.7645	5,745.7645	1.7536	0.0000	5,789.6049
Maximum	**3.7193**	**43.1452**	**25.5958**	**0.0590**	**2.9160**	**1.6966**	**4.6126**	**1.4723**	**1.5624**	**3.0347**	**0.0000**	**5,745.7645**	**5,745.7645**	**1.7536**	**0.0000**	**5,789.6049**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**11.23**	**13.18**	**-0.86**	**0.00**	**56.32**	**13.24**	**46.56**	**56.73**	**13.17**	**41.66**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	32.8150	1.3900e-003	0.1513	1.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		0.3231	0.3231	8.6000e-004		0.3446
Energy	0.3807	3.4606	2.9069	0.0208		0.2630	0.2630		0.2630	0.2630		4,152.6703	4,152.6703	0.0796	0.0761	4,177.3476
Mobile	5.3138	39.5552	69.5956	0.2781	22.2149	0.2125	22.4273	5.9448	0.1992	6.1440		28,373.4204	28,373.4204	1.4470		28,409.5945
Total	**38.5094**	**43.0171**	**72.6538**	**0.2989**	**22.2149**	**0.4760**	**22.6909**	**5.9448**	**0.4628**	**6.4075**		**32,526.4139**	**32,526.4139**	**1.5274**	**0.0761**	**32,587.2866**

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	30.0399	7.7000e-004	0.0877	1.0000e-005		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1741	0.1741	3.6000e-004		0.1832
Energy	0.3807	3.4606	2.9069	0.0208		0.2630	0.2630		0.2630	0.2630		4,152.6703	4,152.6703	0.0796	0.0761	4,177.3476
Mobile	5.3138	39.5552	69.5956	0.2781	22.2149	0.2125	22.4273	5.9448	0.1992	6.1440		28,373.4204	28,373.4204	1.4470		28,409.5945
Total	**35.7343**	**43.0165**	**72.5902**	**0.2989**	**22.2149**	**0.4757**	**22.6906**	**5.9448**	**0.4625**	**6.4072**		**32,526.2649**	**32,526.2649**	**1.5269**	**0.0761**	**32,587.1253**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**7.21**	**0.00**	**0.09**	**0.00**	**0.00**	**0.07**	**0.00**	**0.00**	**0.07**	**0.00**	**0.00**	**0.00**	**0.00**	**0.03**	**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	Rough Grading	Grading	12/1/2020	12/1/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 29.26

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grading	Crawler Tractors	1	8.00	257	0.43
Rough Grading	Excavators	0	8.00	158	0.38
Rough Grading	Graders	1	8.00	187	0.41
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Scrapers	2	8.00	367	0.48
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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
Rough Grading	5	3.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Rough Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	4.1284	48.2210	24.9319	0.0550		1.9485	1.9485		1.7926	1.7926		5,330.3519	5,330.3519	1.7239		5,373.4504
Total	**4.1284**	**48.2210**	**24.9319**	**0.0550**	**6.5523**	**1.9485**	**8.5008**	**3.3675**	**1.7926**	**5.1601**		**5,330.3519**	**5,330.3519**	**1.7239**		**5,373.4504**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0448	1.4654	0.3337	3.6500e-003	0.0897	6.8800e-003	0.0966	0.0258	6.5900e-003	0.0324		385.0002	385.0002	0.0288		385.7193
Worker	0.0164	0.0111	0.1109	3.1000e-004	0.0335	2.2000e-004	0.0338	8.8900e-003	2.0000e-004	9.1000e-003		30.4125	30.4125	9.1000e-004		30.4352
Total	**0.0612**	**1.4765**	**0.4446**	**3.9600e-003**	**0.1232**	**7.1000e-003**	**0.1303**	**0.0347**	**6.7900e-003**	**0.0415**		**415.4126**	**415.4126**	**0.0297**		**416.1545**

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					2.8011	0.0000	2.8011	1.4396	0.0000	1.4396			0.0000			0.0000
Off-Road	3.6581	41.6687	25.1512	0.0550		1.6895	1.6895		1.5556	1.5556	0.0000	5,330.3519	5,330.3519	1.7239		5,373.4504
Total	**3.6581**	**41.6687**	**25.1512**	**0.0550**	**2.8011**	**1.6895**	**4.4906**	**1.4396**	**1.5556**	**2.9952**	**0.0000**	**5,330.3519**	**5,330.3519**	**1.7239**		**5,373.4504**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0448	1.4654	0.3337	3.6500e-003	0.0839	6.8800e-003	0.0908	0.0244	6.5900e-003	0.0310		385.0002	385.0002	0.0288		385.7193
Worker	0.0164	0.0111	0.1109	3.1000e-004	0.0309	2.2000e-004	0.0311	8.2500e-003	2.0000e-004	8.4500e-003		30.4125	30.4125	9.1000e-004		30.4352
Total	**0.0612**	**1.4765**	**0.4446**	**3.9600e-003**	**0.1148**	**7.1000e-003**	**0.1219**	**0.0327**	**6.7900e-003**	**0.0394**		**415.4126**	**415.4126**	**0.0297**		**416.1545**

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	5.3138	39.5552	69.5956	0.2781	22.2149	0.2125	22.4273	5.9448	0.1992	6.1440		28,373.4204	28,373.4204	1.4470		28,409.5945
Unmitigated	5.3138	39.5552	69.5956	0.2781	22.2149	0.2125	22.4273	5.9448	0.1992	6.1440		28,373.4204	28,373.4204	1.4470		28,409.5945

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	336.00	336.00	336.00	1,440,001	1,440,001
Unrefrigerated Warehouse-No Rail	2,095.16	2,095.16	2095.16	8,979,269	8,979,269
Total	2,431.16	2,431.16	2,431.16	10,419,270	10,419,270

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	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
Refrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010

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	lb/day										lb/day					
NaturalGas Mitigated	0.3807	3.4606	2.9069	0.0208		0.2630	0.2630		0.2630	0.2630		4,152.6703	4,152.6703	0.0796	0.0761	4,177.3476
NaturalGas Unmitigated	0.3807	3.4606	2.9069	0.0208		0.2630	0.2630		0.2630	0.2630		4,152.6703	4,152.6703	0.0796	0.0761	4,177.3476

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Refrigerated Warehouse-No Rail	28361.6	0.3059	2.7806	2.3357	0.0167		0.2113	0.2113		0.2113	0.2113		3,336.6640	3,336.6640	0.0640	0.0612	3,356.4921
Unrefrigerated Warehouse-No Rail	6936.05	0.0748	0.6800	0.5712	4.0800e-003		0.0517	0.0517		0.0517	0.0517		816.0064	816.0064	0.0156	0.0150	820.8555
Total		**0.3807**	**3.4606**	**2.9069**	**0.0208**		**0.2630**	**0.2630**		**0.2630**	**0.2630**		**4,152.6703**	**4,152.6703**	**0.0796**	**0.0761**	**4,177.3476**

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Refrigerated Warehouse-No Rail	28.3616	0.3059	2.7806	2.3357	0.0167		0.2113	0.2113		0.2113	0.2113		3,336.6640	3,336.6640	0.0640	0.0612	3,356.4921
Unrefrigerated Warehouse-No Rail	6.93605	0.0748	0.6800	0.5712	4.0800e-003		0.0517	0.0517		0.0517	0.0517		816.0064	816.0064	0.0156	0.0150	820.8555
Total		**0.3807**	**3.4606**	**2.9069**	**0.0208**		**0.2630**	**0.2630**		**0.2630**	**0.2630**		**4,152.6703**	**4,152.6703**	**0.0796**	**0.0761**	**4,177.3476**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	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	30.0399	7.7000e-004	0.0877	1.0000e-005		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1741	0.1741	3.6000e-004		0.1832
Unmitigated	32.8150	1.3900e-003	0.1513	1.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		0.3231	0.3231	8.6000e-004		0.3446

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	3.6963					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	29.1046					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0141	1.3900e-003	0.1513	1.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		0.3231	0.3231	8.6000e-004		0.3446
Total	**32.8150**	**1.3900e-003**	**0.1513**	**1.0000e-005**		**5.4000e-004**	**5.4000e-004**		**5.4000e-004**	**5.4000e-004**		**0.3231**	**0.3231**	**8.6000e-004**		**0.3446**

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	0.9293					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	29.1046					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9900e-003	7.7000e-004	0.0877	1.0000e-005		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1741	0.1741	3.6000e-004		0.1832
Total	**30.0399**	**7.7000e-004**	**0.0877**	**1.0000e-005**		**2.3000e-004**	**2.3000e-004**		**2.3000e-004**	**2.3000e-004**		**0.1741**	**0.1741**	**3.6000e-004**		**0.1832**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Phase 1 Operation_Area Sources Mitigation

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	200.00	1000sqft	4.59	200,000.00	0
Unrefrigerated Warehouse-No Rail	1,247.12	1000sqft	28.15	1,247,123.00	0
Other Asphalt Surfaces	16.22	Acre	16.22	706,467.00	0
Other Non-Asphalt Surfaces	6.72	Acre	6.72	292,958.00	0
Parking Lot	6.32	Acre	6.32	275,315.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2021
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions file in the AQ/GHG appendix for details.

Construction Phase - Operation architectural coating only

Off-road Equipment -

Off-road Equipment - Based on information provided. See the assumptions file in the AQ/GHG appendix for details.

Trips and VMT - See assumptions file in the AQ/GHG appendix for details.

Demolition -

Grading -

Architectural Coating - See assumptions file in the AQ/GHG appendix for details. Mitigation measure.

Area Coating - See assumptions file in AQ/GHG appendix.

Construction Off-road Equipment Mitigation - Based on SCAQMD Rules 403 and 1186.

Area Mitigation - Mitigation

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	76484	16519
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	25
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	25
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	110.00	1.00
tblGrading	AcresOfGrading	3.00	0.50
tblLandUse	LandUseSquareFeet	1,247,120.00	1,247,123.00
tblLandUse	LandUseSquareFeet	706,543.20	706,467.00
tblLandUse	LandUseSquareFeet	292,723.20	292,958.00
tblLandUse	LandUseSquareFeet	275,299.20	275,315.00
tblLandUse	LotAcreage	28.63	28.15
tblOffRoadEquipment	HorsePower	212.00	257.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,172.29	1,153.49
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	WorkerTripNumber	13.00	3.00
tblWater	IndoorWaterUseRate	288,396,500.00	283,771,500.00

2.0 Emissions Summary

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					
2020	2.0900e-003	0.0249	0.0127	3.0000e-005	3.3400e-003	9.8000e-004	4.3100e-003	1.7000e-003	9.0000e-004	2.6000e-003	0.0000	2.6106	2.6106	7.9000e-004	0.0000	2.6305
Maximum	**2.0900e-003**	**0.0249**	**0.0127**	**3.0000e-005**	**3.3400e-003**	**9.8000e-004**	**4.3100e-003**	**1.7000e-003**	**9.0000e-004**	**2.6000e-003**	**0.0000**	**2.6106**	**2.6106**	**7.9000e-004**	**0.0000**	**2.6305**

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					
2020	1.8600e-003	0.0216	0.0128	3.0000e-005	1.4600e-003	8.5000e-004	2.3100e-003	7.4000e-004	7.8000e-004	1.5200e-003	0.0000	2.6106	2.6106	7.9000e-004	0.0000	2.6305
Maximum	**1.8600e-003**	**0.0216**	**0.0128**	**3.0000e-005**	**1.4600e-003**	**8.5000e-004**	**2.3100e-003**	**7.4000e-004**	**7.8000e-004**	**1.5200e-003**	**0.0000**	**2.6106**	**2.6106**	**7.9000e-004**	**0.0000**	**2.6305**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**11.00**	**13.15**	**-0.87**	**0.00**	**56.29**	**13.27**	**46.40**	**56.47**	**13.33**	**41.54**	**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)
		Highest		

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	5.9879	1.7000e-004	0.0189	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0366	0.0366	1.0000e-004	0.0000	0.0391
Energy	0.0695	0.6316	0.5305	3.7900e-003		0.0480	0.0480		0.0480	0.0480	0.0000	687.5212	687.5212	0.0132	0.0126	691.6067
Mobile	0.9494	7.3683	13.1200	0.0516	3.9676	0.0385	4.0061	1.0634	0.0361	1.0995	0.0000	4,774.4363	4,774.4363	0.2355	0.0000	4,780.3239
Waste						0.0000	0.0000		0.0000	0.0000	272.3104	0.0000	272.3104	16.0931	0.0000	674.6374
Water						0.0000	0.0000		0.0000	0.0000	104.7006	0.0000	104.7006	10.7538	0.2539	449.2125
Total	**7.0068**	**8.0000**	**13.6694**	**0.0554**	**3.9676**	**0.0865**	**4.0542**	**1.0634**	**0.0842**	**1.1476**	**377.0110**	**5,461.9941**	**5,839.0051**	**27.0956**	**0.2665**	**6,595.8196**

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	5.4819	1.0000e-004	0.0110	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0198	0.0198	4.0000e-005	0.0000	0.0208
Energy	0.0695	0.6316	0.5305	3.7900e-003		0.0480	0.0480		0.0480	0.0480	0.0000	687.5212	687.5212	0.0132	0.0126	691.6067
Mobile	0.9494	7.3683	13.1200	0.0516	3.9676	0.0385	4.0061	1.0634	0.0361	1.0995	0.0000	4,774.4363	4,774.4363	0.2355	0.0000	4,780.3239
Waste						0.0000	0.0000		0.0000	0.0000	272.3104	0.0000	272.3104	16.0931	0.0000	674.6374
Water						0.0000	0.0000		0.0000	0.0000	104.7006	0.0000	104.7006	10.7538	0.2539	449.2125
Total	**6.5008**	**7.9999**	**13.6614**	**0.0554**	**3.9676**	**0.0865**	**4.0541**	**1.0634**	**0.0841**	**1.1475**	**377.0110**	**5,461.9772**	**5,838.9882**	**27.0956**	**0.2665**	**6,595.8013**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.22**	**0.00**	**0.06**	**0.00**	**0.00**	**0.05**	**0.00**	**0.00**	**0.05**	**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	Rough Grading	Grading	12/1/2020	12/1/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 29.26

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grading	Crawler Tractors	1	8.00	257	0.43
Rough Grading	Excavators	0	8.00	158	0.38
Rough Grading	Graders	1	8.00	187	0.41
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Scrapers	2	8.00	367	0.48
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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
Rough Grading	5	3.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Rough Grading - 2020

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					3.2800e-003	0.0000	3.2800e-003	1.6800e-003	0.0000	1.6800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0600e-003	0.0241	0.0125	3.0000e-005		9.7000e-004	9.7000e-004		9.0000e-004	9.0000e-004	0.0000	2.4178	2.4178	7.8000e-004	0.0000	2.4374
Total	**2.0600e-003**	**0.0241**	**0.0125**	**3.0000e-005**	**3.2800e-003**	**9.7000e-004**	**4.2500e-003**	**1.6800e-003**	**9.0000e-004**	**2.5800e-003**	**0.0000**	**2.4178**	**2.4178**	**7.8000e-004**	**0.0000**	**2.4374**

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	2.0000e-005	7.5000e-004	1.6000e-004	0.0000	4.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1787	0.1787	1.0000e-005	0.0000	0.1790
Worker	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0141	0.0141	0.0000	0.0000	0.0141
Total	**3.0000e-005**	**7.6000e-004**	**2.2000e-004**	**0.0000**	**6.0000e-005**	**0.0000**	**7.0000e-005**	**1.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.1928**	**0.1928**	**1.0000e-005**	**0.0000**	**0.1931**

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					1.4000e-003	0.0000	1.4000e-003	7.2000e-004	0.0000	7.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8300e-003	0.0208	0.0126	3.0000e-005		8.4000e-004	8.4000e-004		7.8000e-004	7.8000e-004	0.0000	2.4178	2.4178	7.8000e-004	0.0000	2.4374
Total	**1.8300e-003**	**0.0208**	**0.0126**	**3.0000e-005**	**1.4000e-003**	**8.4000e-004**	**2.2400e-003**	**7.2000e-004**	**7.8000e-004**	**1.5000e-003**	**0.0000**	**2.4178**	**2.4178**	**7.8000e-004**	**0.0000**	**2.4374**

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	2.0000e-005	7.5000e-004	1.6000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1787	0.1787	1.0000e-005	0.0000	0.1790
Worker	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0141	0.0141	0.0000	0.0000	0.0141
Total	**3.0000e-005**	**7.6000e-004**	**2.2000e-004**	**0.0000**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**1.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.1928**	**0.1928**	**1.0000e-005**	**0.0000**	**0.1931**

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	tons/yr										MT/yr					
Mitigated	0.9494	7.3683	13.1200	0.0516	3.9676	0.0385	4.0061	1.0634	0.0361	1.0995	0.0000	4,774.4363	4,774.4363	0.2355	0.0000	4,780.3239
Unmitigated	0.9494	7.3683	13.1200	0.0516	3.9676	0.0385	4.0061	1.0634	0.0361	1.0995	0.0000	4,774.4363	4,774.4363	0.2355	0.0000	4,780.3239

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	336.00	336.00	336.00	1,440,001	1,440,001
Unrefrigerated Warehouse-No Rail	2,095.16	2,095.16	2095.16	8,979,269	8,979,269
Total	2,431.16	2,431.16	2,431.16	10,419,270	10,419,270

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	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
Refrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010

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	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0695	0.6316	0.5305	3.7900e-003		0.0480	0.0480		0.0480	0.0480	0.0000	687.5212	687.5212	0.0132	0.0126	691.6067
NaturalGas Unmitigated	0.0695	0.6316	0.5305	3.7900e-003		0.0480	0.0480		0.0480	0.0480	0.0000	687.5212	687.5212	0.0132	0.0126	691.6067

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Refrigerated Warehouse-No Rail	1.0352e+007	0.0558	0.5075	0.4263	3.0400e-003		0.0386	0.0386		0.0386	0.0386	0.0000	552.4221	552.4221	0.0106	0.0101	555.7049
Unrefrigerated Warehouse-No Rail	2.53166e+006	0.0137	0.1241	0.1042	7.4000e-004		9.4300e-003	9.4300e-003		9.4300e-003	9.4300e-003	0.0000	135.0990	135.0990	2.5900e-003	2.4800e-003	135.9018
Total		**0.0695**	**0.6316**	**0.5305**	**3.7800e-003**		**0.0480**	**0.0480**		**0.0480**	**0.0480**	**0.0000**	**687.5211**	**687.5211**	**0.0132**	**0.0126**	**691.6067**

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Refrigerated Warehouse-No Rail	1.0352e+007	0.0558	0.5075	0.4263	3.0400e-003		0.0386	0.0386		0.0386	0.0386	0.0000	552.4221	552.4221	0.0106	0.0101	555.7049
Unrefrigerated Warehouse-No Rail	2.53166e+006	0.0137	0.1241	0.1042	7.4000e-004		9.4300e-003	9.4300e-003		9.4300e-003	9.4300e-003	0.0000	135.0990	135.0990	2.5900e-003	2.4800e-003	135.9018
Total		**0.0695**	**0.6316**	**0.5305**	**3.7800e-003**		**0.0480**	**0.0480**		**0.0480**	**0.0480**	**0.0000**	**687.5211**	**687.5211**	**0.0132**	**0.0126**	**691.6067**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	96360.3	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	7.99e+006	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2.94321e+006	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	96360.3	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	7.99e+006	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2.94321e+006	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	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	5.4819	1.0000e-004	0.0110	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0198	0.0198	4.0000e-005	0.0000	0.0208
Unmitigated	5.9879	1.7000e-004	0.0189	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0366	0.0366	1.0000e-004	0.0000	0.0391

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	0.6746					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.3116					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7700e-003	1.7000e-004	0.0189	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0366	0.0366	1.0000e-004	0.0000	0.0391
Total	**5.9879**	**1.7000e-004**	**0.0189**	**0.0000**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**	**0.0000**	**0.0366**	**0.0366**	**1.0000e-004**	**0.0000**	**0.0391**

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	0.1696					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.3116					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.5000e-004	1.0000e-004	0.0110	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0198	0.0198	4.0000e-005	0.0000	0.0208
Total	**5.4819**	**1.0000e-004**	**0.0110**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0198**	**0.0198**	**4.0000e-005**	**0.0000**	**0.0208**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	104.7006	10.7538	0.2539	449.2125
Unmitigated	104.7006	10.7538	0.2539	449.2125

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	46.25 / 0	14.6730	1.5071	0.0356	62.9537
Unrefrigerated Warehouse-No Rail	283.772 / 0	90.0276	9.2467	0.2183	386.2588
Total		**104.7006**	**10.7538**	**0.2539**	**449.2125**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	46.25 / 0	14.6730	1.5071	0.0356	62.9537
Unrefrigerated Warehouse-No Rail	283.772 / 0	90.0276	9.2467	0.2183	386.2588
Total		**104.7006**	**10.7538**	**0.2539**	**449.2125**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	272.3104	16.0931	0.0000	674.6374
Unmitigated	272.3104	16.0931	0.0000	674.6374

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	188	38.1623	2.2553	0.0000	94.5455
Unrefrigerated Warehouse-No Rail	1153.49	234.1481	13.8378	0.0000	580.0919
Total		**272.3104**	**16.0931**	**0.0000**	**674.6374**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	188	38.1623	2.2553	0.0000	94.5455
Unrefrigerated Warehouse-No Rail	1153.49	234.1481	13.8378	0.0000	580.0919
Total		**272.3104**	**16.0931**	**0.0000**	**674.6374**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Phase 1 Operation_Area Sources Mitigation

San Bernardino-South Coast County, 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												
Rough Grading	0.11	0.13	-0.01	0.00	0.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Crawler Tractors	Diesel	Tier 4 Final	1	1	No Change	0.00
Excavators	Diesel	Tier 4 Final	1	0	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	1	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	0	No Change	0.00

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					
Crawler Tractors	2.90000E-004	3.53000E-003	2.03000E-003	0.00000E+000	1.40000E-004	1.30000E-004	0.00000E+000	4.20140E-001	4.20140E-001	1.40000E-004	0.00000E+000	4.23540E-001
Excavators	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
Graders	2.40000E-004	3.16000E-003	9.10000E-004	0.00000E+000	1.00000E-004	9.00000E-005	0.00000E+000	2.91530E-001	2.91530E-001	9.00000E-005	0.00000E+000	2.93890E-001
Rubber Tired Dozers	5.40000E-004	5.67000E-003	2.07000E-003	0.00000E+000	2.80000E-004	2.60000E-004	0.00000E+000	3.75280E-001	3.75280E-001	1.20000E-004	0.00000E+000	3.78310E-001
Scrapers	9.90000E-004	1.17500E-002	7.46000E-003	2.00000E-005	4.60000E-004	4.20000E-004	0.00000E+000	1.33085E+000	1.33085E+000	4.30000E-004	0.00000E+000	1.34161E+000
Tractors/Loaders/Backhoes	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

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					
Crawler Tractors	6.00000E-005	2.50000E-004	2.14000E-003	0.00000E+000	1.00000E-005	1.00000E-005	0.00000E+000	4.20140E-001	4.20140E-001	1.40000E-004	0.00000E+000	4.23540E-001
Excavators	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
Graders	2.40000E-004	3.16000E-003	9.10000E-004	0.00000E+000	1.00000E-004	9.00000E-005	0.00000E+000	2.91530E-001	2.91530E-001	9.00000E-005	0.00000E+000	2.93890E-001
Rubber Tired Dozers	5.40000E-004	5.67000E-003	2.07000E-003	0.00000E+000	2.80000E-004	2.60000E-004	0.00000E+000	3.75280E-001	3.75280E-001	1.20000E-004	0.00000E+000	3.78310E-001
Scrapers	9.90000E-004	1.17500E-002	7.46000E-003	2.00000E-005	4.60000E-004	4.20000E-004	0.00000E+000	1.33085E+000	1.33085E+000	4.30000E-004	0.00000E+000	1.34161E+000
Tractors/Loaders/Backhoes	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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Percent Reduction											
Crawler Tractors	7.93103E-001	9.29178E-001	-5.41872E-002	0.00000E+000	9.28571E-001	9.23077E-001	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Excavators	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
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
Rubber Tired Dozers	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
Scrapers	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
Tractors/Loaders/Backhoes	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

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		
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	9.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Rough Grading	Fugitive Dust	0.00	0.00	0.00	0.00	0.57	0.57
Rough Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Percent Reduction											
Architectural Coating	74.86	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
Electricity	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	57.63	41.18	42.07	0.00	57.14	57.14	0.00	46.10	46.10	60.00	0.00	46.81
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 Selected	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.10	0.32		
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			
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	
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
Yes	Use Low VOC Paint (Non-residential Interior)	25.00
Yes	Use Low VOC Paint (Non-residential Exterior)	25.00
Yes	Use Low VOC Paint (Parking)	50.00
Yes	% Electric Lawnmower	100.00
Yes	% Electric Leafblower	100.00
Yes	% Electric Chainsaw	100.00

Energy Mitigation Measures

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

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

CalEEMod Output: Operation – Phase 2 Area Mitigated

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Phase 2 Operation Architectural Coating_Mit

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	457.91	1000sqft	9.31	457,904.00	0
Other Asphalt Surfaces	7.90	Acre	7.90	344,070.00	0
Other Non-Asphalt Surfaces	3.99	Acre	3.99	0.00	0
Parking Lot	1.80	Acre	1.80	78,451.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions file in the AQ/GHG appendix.

Construction Phase - For operational architectural coating emissions.

Off-road Equipment -

Off-road Equipment - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Trips and VMT - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Demolition -

Grading -

Architectural Coating - See assumptions file in the AQ/GHG appendix for details.

Area Coating - See assumptions file in the AQ/GHG appendix for details.

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186.

Area Mitigation - Mitigation

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	25351	4707
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	25
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	25
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	35.00	1.00
tblGrading	AcresOfGrading	3.00	112.50
tblLandUse	LandUseSquareFeet	457,910.00	457,904.00
tblLandUse	LandUseSquareFeet	344,124.00	344,070.00
tblLandUse	LandUseSquareFeet	173,804.40	0.00
tblLandUse	LandUseSquareFeet	78,408.00	78,451.00
tblLandUse	LotAcreage	10.51	9.31
tblOffRoadEquipment	HorsePower	212.00	257.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	430.44	340.19
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	WorkerTripNumber	13.00	3.00
tblWater	IndoorWaterUseRate	105,891,687.50	83,689,375.00

2.0 Emissions Summary

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	3.4341	38.5761	22.1393	0.0591	125.4516	1.5015	126.9530	16.2272	1.3814	17.6086	0.0000	5,760.4286	5,760.4286	1.7501	0.0000	5,804.1818
Maximum	**3.4341**	**38.5761**	**22.1393**	**0.0591**	**125.4516**	**1.5015**	**126.9530**	**16.2272**	**1.3814**	**17.6086**	**0.0000**	**5,760.4286**	**5,760.4286**	**1.7501**	**0.0000**	**5,804.1818**

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	3.0945	35.7415	23.4719	0.0591	53.6927	1.3006	54.9933	6.9550	1.1978	8.1528	0.0000	5,760.4286	5,760.4286	1.7501	0.0000	5,804.1818
Maximum	**3.0945**	**35.7415**	**23.4719**	**0.0591**	**53.6927**	**1.3006**	**54.9933**	**6.9550**	**1.1978**	**8.1528**	**0.0000**	**5,760.4286**	**5,760.4286**	**1.7501**	**0.0000**	**5,804.1818**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**9.89**	**7.35**	**-6.02**	**0.00**	**57.20**	**13.38**	**56.68**	**57.14**	**13.29**	**53.70**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	10.3896	4.4000e-004	0.0482	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1032	0.1032	2.7000e-004		0.1100
Energy	0.0275	0.2497	0.2097	1.5000e-003		0.0190	0.0190		0.0190	0.0190		299.6116	299.6116	5.7400e-003	5.4900e-003	301.3921
Mobile	1.7708	11.6061	23.4030	0.0930	7.0295	0.0619	7.0914	1.8810	0.0579	1.9390		9,484.5681	9,484.5681	0.4323		9,495.3743
Total	**12.1878**	**11.8562**	**23.6609**	**0.0945**	**7.0295**	**0.0810**	**7.1105**	**1.8810**	**0.0771**	**1.9581**		**9,784.2829**	**9,784.2829**	**0.4383**	**5.4900e-003**	**9,796.8764**

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	9.5118	2.4000e-004	0.0280	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0556	0.0556	1.2000e-004		0.0585
Energy	0.0275	0.2497	0.2097	1.5000e-003		0.0190	0.0190		0.0190	0.0190		299.6116	299.6116	5.7400e-003	5.4900e-003	301.3921
Mobile	1.7708	11.6061	23.4030	0.0930	7.0295	0.0619	7.0914	1.8810	0.0579	1.9390		9,484.5681	9,484.5681	0.4323		9,495.3743
Total	**11.3100**	**11.8560**	**23.6407**	**0.0945**	**7.0295**	**0.0809**	**7.1104**	**1.8810**	**0.0770**	**1.9580**		**9,784.2353**	**9,784.2353**	**0.4381**	**5.4900e-003**	**9,796.8249**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**7.20**	**0.00**	**0.09**	**0.00**	**0.00**	**0.12**	**0.00**	**0.00**	**0.13**	**0.01**	**0.00**	**0.00**	**0.00**	**0.03**	**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	Rough Grading	Grading	1/3/2022	1/3/2022	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 13.69

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grading	Crawler Tractors	1	8.00	257	0.43
Rough Grading	Excavators	0	8.00	158	0.38
Rough Grading	Graders	1	8.00	187	0.41
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Scrapers	2	8.00	367	0.48
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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
Rough Grading	5	3.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Rough 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					125.3284	0.0000	125.3284	16.1925	0.0000	16.1925			0.0000			0.0000
Off-Road	3.3861	37.2872	21.7903	0.0551		1.4993	1.4993		1.3794	1.3794		5,333.5599	5,333.5599	1.7250		5,376.6844
Total	**3.3861**	**37.2872**	**21.7903**	**0.0551**	**125.3284**	**1.4993**	**126.8277**	**16.1925**	**1.3794**	**17.5719**		**5,333.5599**	**5,333.5599**	**1.7250**		**5,376.6844**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0338	1.2805	0.2349	3.7500e-003	0.0897	1.9400e-003	0.0916	0.0258	1.8600e-003	0.0277		395.2306	395.2306	0.0243		395.8383
Worker	0.0142	8.4700e-003	0.1141	3.2000e-004	0.0335	2.1000e-004	0.0337	8.8900e-003	1.9000e-004	9.0800e-003		31.6381	31.6381	8.4000e-004		31.6590
Total	**0.0480**	**1.2889**	**0.3490**	**4.0700e-003**	**0.1232**	**2.1500e-003**	**0.1254**	**0.0347**	**2.0500e-003**	**0.0368**		**426.8687**	**426.8687**	**0.0252**		**427.4973**

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					53.5779	0.0000	53.5779	6.9223	0.0000	6.9223			0.0000			0.0000
Off-Road	3.0465	34.4525	23.1229	0.0551		1.2984	1.2984		1.1958	1.1958	0.0000	5,333.5599	5,333.5599	1.7250		5,376.6844
Total	**3.0465**	**34.4525**	**23.1229**	**0.0551**	**53.5779**	**1.2984**	**54.8763**	**6.9223**	**1.1958**	**8.1181**	**0.0000**	**5,333.5599**	**5,333.5599**	**1.7250**		**5,376.6844**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0338	1.2805	0.2349	3.7500e-003	0.0839	1.9400e-003	0.0859	0.0244	1.8600e-003	0.0263		395.2306	395.2306	0.0243		395.8383
Worker	0.0142	8.4700e-003	0.1141	3.2000e-004	0.0309	2.1000e-004	0.0311	8.2500e-003	1.9000e-004	8.4400e-003		31.6381	31.6381	8.4000e-004		31.6590
Total	**0.0480**	**1.2889**	**0.3490**	**4.0700e-003**	**0.1148**	**2.1500e-003**	**0.1170**	**0.0327**	**2.0500e-003**	**0.0347**		**426.8687**	**426.8687**	**0.0252**		**427.4973**

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	1.7708	11.6061	23.4030	0.0930	7.0295	0.0619	7.0914	1.8810	0.0579	1.9390		9,484.5681	9,484.5681	0.4323		9,495.3743
Unmitigated	1.7708	11.6061	23.4030	0.0930	7.0295	0.0619	7.0914	1.8810	0.0579	1.9390		9,484.5681	9,484.5681	0.4323		9,495.3743

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	769.29	769.29	769.29	3,296,954	3,296,954
Total	769.29	769.29	769.29	3,296,954	3,296,954

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Unrefrigerated Warehouse-No Rail	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944

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	lb/day										lb/day					
NaturalGas Mitigated	0.0275	0.2497	0.2097	1.5000e-003		0.0190	0.0190		0.0190	0.0190		299.6116	299.6116	5.7400e-003	5.4900e-003	301.3921
NaturalGas Unmitigated	0.0275	0.2497	0.2097	1.5000e-003		0.0190	0.0190		0.0190	0.0190		299.6116	299.6116	5.7400e-003	5.4900e-003	301.3921

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	2546.7	0.0275	0.2497	0.2097	1.5000e-003		0.0190	0.0190		0.0190	0.0190		299.6116	299.6116	5.7400e-003	5.4900e-003	301.3921
Total		**0.0275**	**0.2497**	**0.2097**	**1.5000e-003**		**0.0190**	**0.0190**		**0.0190**	**0.0190**		**299.6116**	**299.6116**	**5.7400e-003**	**5.4900e-003**	**301.3921**

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	2.5467	0.0275	0.2497	0.2097	1.5000e-003		0.0190	0.0190		0.0190	0.0190		299.6116	299.6116	5.7400e-003	5.4900e-003	301.3921
Total		**0.0275**	**0.2497**	**0.2097**	**1.5000e-003**		**0.0190**	**0.0190**		**0.0190**	**0.0190**		**299.6116**	**299.6116**	**5.7400e-003**	**5.4900e-003**	**301.3921**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	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	9.5118	2.4000e-004	0.0280	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0556	0.0556	1.2000e-004		0.0585
Unmitigated	10.3896	4.4000e-004	0.0482	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1032	0.1032	2.7000e-004		0.1100

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	1.1689					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.2162					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.4900e-003	4.4000e-004	0.0482	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1032	0.1032	2.7000e-004		0.1100
Total	**10.3896**	**4.4000e-004**	**0.0482**	**0.0000**		**1.7000e-004**	**1.7000e-004**		**1.7000e-004**	**1.7000e-004**		**0.1032**	**0.1032**	**2.7000e-004**		**0.1100**

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	0.2937					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.2162					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9000e-003	2.4000e-004	0.0280	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0556	0.0556	1.2000e-004		0.0585
Total	**9.5118**	**2.4000e-004**	**0.0280**	**0.0000**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**		**0.0556**	**0.0556**	**1.2000e-004**		**0.0585**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Phase 2 Operation Architectural Coating_Mit

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	457.91	1000sqft	9.31	457,904.00	0
Other Asphalt Surfaces	7.90	Acre	7.90	344,070.00	0
Other Non-Asphalt Surfaces	3.99	Acre	3.99	0.00	0
Parking Lot	1.80	Acre	1.80	78,451.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions file in the AQ/GHG appendix.

Construction Phase - For operational architectural coating emissions.

Off-road Equipment -

Off-road Equipment - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Trips and VMT - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Demolition -

Grading -

Architectural Coating - See assumptions file in the AQ/GHG appendix for details.

Area Coating - See assumptions file in the AQ/GHG appendix for details.

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186.

Area Mitigation - Mitigation

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	25351	4707
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	25
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	25
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	35.00	1.00
tblGrading	AcresOfGrading	3.00	112.50
tblLandUse	LandUseSquareFeet	457,910.00	457,904.00
tblLandUse	LandUseSquareFeet	344,124.00	344,070.00
tblLandUse	LandUseSquareFeet	173,804.40	0.00
tblLandUse	LandUseSquareFeet	78,408.00	78,451.00
tblLandUse	LotAcreage	10.51	9.31
tblOffRoadEquipment	HorsePower	212.00	257.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	430.44	340.19
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	WorkerTripNumber	13.00	3.00
tblWater	IndoorWaterUseRate	105,891,687.50	83,689,375.00

2.0 Emissions Summary

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	3.4363	38.5615	22.1596	0.0590	125.4516	1.5015	126.9531	16.2272	1.3815	17.6087	0.0000	5,741.7030	5,741.7030	1.7527	0.0000	5,785.5205
Maximum	**3.4363**	**38.5615**	**22.1596**	**0.0590**	**125.4516**	**1.5015**	**126.9531**	**16.2272**	**1.3815**	**17.6087**	**0.0000**	**5,741.7030**	**5,741.7030**	**1.7527**	**0.0000**	**5,785.5205**

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	3.0966	35.7269	23.4922	0.0590	53.6927	1.3006	54.9933	6.9550	1.1979	8.1529	0.0000	5,741.7030	5,741.7030	1.7527	0.0000	5,785.5205
Maximum	**3.0966**	**35.7269**	**23.4922**	**0.0590**	**53.6927**	**1.3006**	**54.9933**	**6.9550**	**1.1979**	**8.1529**	**0.0000**	**5,741.7030**	**5,741.7030**	**1.7527**	**0.0000**	**5,785.5205**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**9.88**	**7.35**	**-6.01**	**0.00**	**57.20**	**13.38**	**56.68**	**57.14**	**13.29**	**53.70**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	10.3896	4.4000e-004	0.0482	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1032	0.1032	2.7000e-004		0.1100
Energy	0.0275	0.2497	0.2097	1.5000e-003		0.0190	0.0190		0.0190	0.0190		299.6116	299.6116	5.7400e-003	5.4900e-003	301.3921
Mobile	1.5575	11.6800	20.2327	0.0858	7.0295	0.0623	7.0918	1.8810	0.0583	1.9393		8,763.2554	8,763.2554	0.4351		8,774.1325
Total	**11.9745**	**11.9301**	**20.4907**	**0.0873**	**7.0295**	**0.0814**	**7.1109**	**1.8810**	**0.0775**	**1.9585**		**9,062.9702**	**9,062.9702**	**0.4411**	**5.4900e-003**	**9,075.6346**

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	9.5118	2.4000e-004	0.0280	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0556	0.0556	1.2000e-004		0.0585
Energy	0.0275	0.2497	0.2097	1.5000e-003		0.0190	0.0190		0.0190	0.0190		299.6116	299.6116	5.7400e-003	5.4900e-003	301.3921
Mobile	1.5575	11.6800	20.2327	0.0858	7.0295	0.0623	7.0918	1.8810	0.0583	1.9393		8,763.2554	8,763.2554	0.4351		8,774.1325
Total	**11.0967**	**11.9299**	**20.4704**	**0.0873**	**7.0295**	**0.0813**	**7.1108**	**1.8810**	**0.0774**	**1.9584**		**9,062.9226**	**9,062.9226**	**0.4409**	**5.4900e-003**	**9,075.5830**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**7.33**	**0.00**	**0.10**	**0.00**	**0.00**	**0.12**	**0.00**	**0.00**	**0.13**	**0.01**	**0.00**	**0.00**	**0.00**	**0.03**	**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	Rough Grading	Grading	1/3/2022	1/3/2022	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 13.69

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grading	Crawler Tractors	1	8.00	257	0.43
Rough Grading	Excavators	0	8.00	158	0.38
Rough Grading	Graders	1	8.00	187	0.41
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Scrapers	2	8.00	367	0.48
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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
Rough Grading	5	3.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Rough 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					125.3284	0.0000	125.3284	16.1925	0.0000	16.1925			0.0000			0.0000
Off-Road	3.3861	37.2872	21.7903	0.0551		1.4993	1.4993		1.3794	1.3794		5,333.5599	5,333.5599	1.7250		5,376.6844
Total	**3.3861**	**37.2872**	**21.7903**	**0.0551**	**125.3284**	**1.4993**	**126.8277**	**16.1925**	**1.3794**	**17.5719**		**5,333.5599**	**5,333.5599**	**1.7250**		**5,376.6844**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0359	1.2654	0.2759	3.6000e-003	0.0897	2.0000e-003	0.0917	0.0258	1.9100e-003	0.0277		379.7588	379.7588	0.0270		380.4333
Worker	0.0143	8.9100e-003	0.0934	2.8000e-004	0.0335	2.1000e-004	0.0337	8.8900e-003	1.9000e-004	9.0800e-003		28.3844	28.3844	7.4000e-004		28.4028
Total	**0.0502**	**1.2743**	**0.3693**	**3.8800e-003**	**0.1232**	**2.2100e-003**	**0.1254**	**0.0347**	**2.1000e-003**	**0.0368**		**408.1431**	**408.1431**	**0.0277**		**408.8361**

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					53.5779	0.0000	53.5779	6.9223	0.0000	6.9223			0.0000			0.0000
Off-Road	3.0465	34.4525	23.1229	0.0551		1.2984	1.2984		1.1958	1.1958	0.0000	5,333.5599	5,333.5599	1.7250		5,376.6844
Total	**3.0465**	**34.4525**	**23.1229**	**0.0551**	**53.5779**	**1.2984**	**54.8763**	**6.9223**	**1.1958**	**8.1181**	**0.0000**	**5,333.5599**	**5,333.5599**	**1.7250**		**5,376.6844**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0359	1.2654	0.2759	3.6000e-003	0.0839	2.0000e-003	0.0859	0.0244	1.9100e-003	0.0263		379.7588	379.7588	0.0270		380.4333
Worker	0.0143	8.9100e-003	0.0934	2.8000e-004	0.0309	2.1000e-004	0.0311	8.2500e-003	1.9000e-004	8.4400e-003		28.3844	28.3844	7.4000e-004		28.4028
Total	**0.0502**	**1.2743**	**0.3693**	**3.8800e-003**	**0.1148**	**2.2100e-003**	**0.1170**	**0.0327**	**2.1000e-003**	**0.0348**		**408.1431**	**408.1431**	**0.0277**		**408.8361**

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	1.5575	11.6800	20.2327	0.0858	7.0295	0.0623	7.0918	1.8810	0.0583	1.9393		8,763.2554	8,763.2554	0.4351		8,774.1325
Unmitigated	1.5575	11.6800	20.2327	0.0858	7.0295	0.0623	7.0918	1.8810	0.0583	1.9393		8,763.2554	8,763.2554	0.4351		8,774.1325

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	769.29	769.29	769.29	3,296,954	3,296,954
Total	769.29	769.29	769.29	3,296,954	3,296,954

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Unrefrigerated Warehouse-No Rail	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944

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	lb/day										lb/day					
NaturalGas Mitigated	0.0275	0.2497	0.2097	1.5000e-003		0.0190	0.0190		0.0190	0.0190		299.6116	299.6116	5.7400e-003	5.4900e-003	301.3921
NaturalGas Unmitigated	0.0275	0.2497	0.2097	1.5000e-003		0.0190	0.0190		0.0190	0.0190		299.6116	299.6116	5.7400e-003	5.4900e-003	301.3921

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	2546.7	0.0275	0.2497	0.2097	1.5000e-003		0.0190	0.0190		0.0190	0.0190		299.6116	299.6116	5.7400e-003	5.4900e-003	301.3921
Total		**0.0275**	**0.2497**	**0.2097**	**1.5000e-003**		**0.0190**	**0.0190**		**0.0190**	**0.0190**		**299.6116**	**299.6116**	**5.7400e-003**	**5.4900e-003**	**301.3921**

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	2.5467	0.0275	0.2497	0.2097	1.5000e-003		0.0190	0.0190		0.0190	0.0190		299.6116	299.6116	5.7400e-003	5.4900e-003	301.3921
Total		**0.0275**	**0.2497**	**0.2097**	**1.5000e-003**		**0.0190**	**0.0190**		**0.0190**	**0.0190**		**299.6116**	**299.6116**	**5.7400e-003**	**5.4900e-003**	**301.3921**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	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	9.5118	2.4000e-004	0.0280	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0556	0.0556	1.2000e-004		0.0585
Unmitigated	10.3896	4.4000e-004	0.0482	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1032	0.1032	2.7000e-004		0.1100

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	1.1689					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.2162					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.4900e-003	4.4000e-004	0.0482	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1032	0.1032	2.7000e-004		0.1100
Total	**10.3896**	**4.4000e-004**	**0.0482**	**0.0000**		**1.7000e-004**	**1.7000e-004**		**1.7000e-004**	**1.7000e-004**		**0.1032**	**0.1032**	**2.7000e-004**		**0.1100**

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	0.2937					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.2162					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9000e-003	2.4000e-004	0.0280	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0556	0.0556	1.2000e-004		0.0585
Total	**9.5118**	**2.4000e-004**	**0.0280**	**0.0000**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**		**0.0556**	**0.0556**	**1.2000e-004**		**0.0585**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Phase 2 Operation Architectural Coating_Mit

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	457.91	1000sqft	9.31	457,904.00	0
Other Asphalt Surfaces	7.90	Acre	7.90	344,070.00	0
Other Non-Asphalt Surfaces	3.99	Acre	3.99	0.00	0
Parking Lot	1.80	Acre	1.80	78,451.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions file in the AQ/GHG appendix.

Construction Phase - For operational architectural coating emissions.

Off-road Equipment -

Off-road Equipment - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Trips and VMT - Based on information provided. See assumptions file in the AQ/GHG appendix for details.

Demolition -

Grading -

Architectural Coating - See assumptions file in the AQ/GHG appendix for details.

Area Coating - See assumptions file in the AQ/GHG appendix for details.

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186.

Area Mitigation - Mitigation

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	25351	4707
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	25
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	25
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	35.00	1.00
tblGrading	AcresOfGrading	3.00	112.50
tblLandUse	LandUseSquareFeet	457,910.00	457,904.00
tblLandUse	LandUseSquareFeet	344,124.00	344,070.00
tblLandUse	LandUseSquareFeet	173,804.40	0.00
tblLandUse	LandUseSquareFeet	78,408.00	78,451.00
tblLandUse	LotAcreage	10.51	9.31
tblOffRoadEquipment	HorsePower	212.00	257.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	430.44	340.19
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	WorkerTripNumber	13.00	3.00
tblWater	IndoorWaterUseRate	105,891,687.50	83,689,375.00

2.0 Emissions Summary

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	1.7200e-003	0.0193	0.0111	3.0000e-005	0.0627	7.5000e-004	0.0635	8.1100e-003	6.9000e-004	8.8000e-003	0.0000	2.6087	2.6087	7.9000e-004	0.0000	2.6286
Maximum	**1.7200e-003**	**0.0193**	**0.0111**	**3.0000e-005**	**0.0627**	**7.5000e-004**	**0.0635**	**8.1100e-003**	**6.9000e-004**	**8.8000e-003**	**0.0000**	**2.6087**	**2.6087**	**7.9000e-004**	**0.0000**	**2.6286**

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	1.5500e-003	0.0179	0.0117	3.0000e-005	0.0269	6.5000e-004	0.0275	3.4800e-003	6.0000e-004	4.0800e-003	0.0000	2.6087	2.6087	7.9000e-004	0.0000	2.6286
Maximum	**1.5500e-003**	**0.0179**	**0.0117**	**3.0000e-005**	**0.0269**	**6.5000e-004**	**0.0275**	**3.4800e-003**	**6.0000e-004**	**4.0800e-003**	**0.0000**	**2.6087**	**2.6087**	**7.9000e-004**	**0.0000**	**2.6286**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**9.88**	**7.31**	**-6.05**	**0.00**	**57.19**	**13.33**	**56.68**	**57.09**	**13.04**	**53.64**	**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)**

5	**10-5-2021**	**1-4-2022**	0.0150	0.0139
		Highest	0.0150	0.0139

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	1.8958	6.0000e-005	6.0300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0117	0.0117	3.0000e-005	0.0000	0.0125
Energy	5.0100e-003	0.0456	0.0383	2.7000e-004		3.4600e-003	3.4600e-003		3.4600e-003	3.4600e-003	0.0000	49.6041	49.6041	9.5000e-004	9.1000e-004	49.8988
Mobile	0.2782	2.1753	3.8109	0.0159	1.2555	0.0113	1.2668	0.3365	0.0106	0.3470	0.0000	1,474.7070	1,474.7070	0.0707	0.0000	1,476.4742
Waste						0.0000	0.0000		0.0000	0.0000	69.0555	0.0000	69.0555	4.0811	0.0000	171.0821
Water						0.0000	0.0000		0.0000	0.0000	26.5508	0.0000	26.5508	2.7270	0.0644	113.9147
Total	**2.1790**	**2.2210**	**3.8552**	**0.0162**	**1.2555**	**0.0148**	**1.2702**	**0.3365**	**0.0140**	**0.3505**	**95.6063**	**1,524.3227**	**1,619.9290**	**6.8798**	**0.0653**	**1,811.3823**

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	1.7358	3.0000e-005	3.4900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.3100e-003	6.3100e-003	1.0000e-005	0.0000	6.6300e-003
Energy	5.0100e-003	0.0456	0.0383	2.7000e-004		3.4600e-003	3.4600e-003		3.4600e-003	3.4600e-003	0.0000	49.6041	49.6041	9.5000e-004	9.1000e-004	49.8988
Mobile	0.2782	2.1753	3.8109	0.0159	1.2555	0.0113	1.2668	0.3365	0.0106	0.3470	0.0000	1,474.7070	1,474.7070	0.0707	0.0000	1,476.4742
Waste						0.0000	0.0000		0.0000	0.0000	69.0555	0.0000	69.0555	4.0811	0.0000	171.0821
Water						0.0000	0.0000		0.0000	0.0000	26.5508	0.0000	26.5508	2.7270	0.0644	113.9147
Total	**2.0190**	**2.2209**	**3.8527**	**0.0162**	**1.2555**	**0.0147**	**1.2702**	**0.3365**	**0.0140**	**0.3505**	**95.6063**	**1,524.3174**	**1,619.9236**	**6.8797**	**0.0653**	**1,811.3765**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	7.35	0.00	0.07	0.00	0.00	0.07	0.00	0.00	0.07	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	Rough Grading	Grading	1/3/2022	1/3/2022	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 13.69

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grading	Crawler Tractors	1	8.00	257	0.43
Rough Grading	Excavators	0	8.00	158	0.38
Rough Grading	Graders	1	8.00	187	0.41
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Scrapers	2	8.00	367	0.48
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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
Rough Grading	5	3.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Rough 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					0.0627	0.0000	0.0627	8.1000e-003	0.0000	8.1000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6900e-003	0.0186	0.0109	3.0000e-005		7.5000e-004	7.5000e-004		6.9000e-004	6.9000e-004	0.0000	2.4193	2.4193	7.8000e-004	0.0000	2.4388
Total	**1.6900e-003**	**0.0186**	**0.0109**	**3.0000e-005**	**0.0627**	**7.5000e-004**	**0.0634**	**8.1000e-003**	**6.9000e-004**	**8.7900e-003**	**0.0000**	**2.4193**	**2.4193**	**7.8000e-004**	**0.0000**	**2.4388**

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	2.0000e-005	6.4000e-004	1.3000e-004	0.0000	4.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1763	0.1763	1.0000e-005	0.0000	0.1766
Worker	1.0000e-005	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0132	0.0132	0.0000	0.0000	0.0132
Total	**3.0000e-005**	**6.4000e-004**	**1.8000e-004**	**0.0000**	**6.0000e-005**	**0.0000**	**7.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.1895**	**0.1895**	**1.0000e-005**	**0.0000**	**0.1898**

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					0.0268	0.0000	0.0268	3.4600e-003	0.0000	3.4600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5200e-003	0.0172	0.0116	3.0000e-005		6.5000e-004	6.5000e-004		6.0000e-004	6.0000e-004	0.0000	2.4193	2.4193	7.8000e-004	0.0000	2.4388
Total	**1.5200e-003**	**0.0172**	**0.0116**	**3.0000e-005**	**0.0268**	**6.5000e-004**	**0.0274**	**3.4600e-003**	**6.0000e-004**	**4.0600e-003**	**0.0000**	**2.4193**	**2.4193**	**7.8000e-004**	**0.0000**	**2.4388**

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	2.0000e-005	6.4000e-004	1.3000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1763	0.1763	1.0000e-005	0.0000	0.1766
Worker	1.0000e-005	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0132	0.0132	0.0000	0.0000	0.0132
Total	**3.0000e-005**	**6.4000e-004**	**1.8000e-004**	**0.0000**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.1895**	**0.1895**	**1.0000e-005**	**0.0000**	**0.1898**

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	tons/yr										MT/yr					
Mitigated	0.2782	2.1753	3.8109	0.0159	1.2555	0.0113	1.2668	0.3365	0.0106	0.3470	0.0000	1,474.7070	1,474.7070	0.0707	0.0000	1,476.4742
Unmitigated	0.2782	2.1753	3.8109	0.0159	1.2555	0.0113	1.2668	0.3365	0.0106	0.3470	0.0000	1,474.7070	1,474.7070	0.0707	0.0000	1,476.4742

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	769.29	769.29	769.29	3,296,954	3,296,954
Total	769.29	769.29	769.29	3,296,954	3,296,954

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Unrefrigerated Warehouse-No Rail	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944

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	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	5.0100e-003	0.0456	0.0383	2.7000e-004		3.4600e-003	3.4600e-003		3.4600e-003	3.4600e-003	0.0000	49.6041	49.6041	9.5000e-004	9.1000e-004	49.8988
NaturalGas Unmitigated	5.0100e-003	0.0456	0.0383	2.7000e-004		3.4600e-003	3.4600e-003		3.4600e-003	3.4600e-003	0.0000	49.6041	49.6041	9.5000e-004	9.1000e-004	49.8988

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	929545	5.0100e-003	0.0456	0.0383	2.7000e-004		3.4600e-003	3.4600e-003		3.4600e-003	3.4600e-003	0.0000	49.6041	49.6041	9.5000e-004	9.1000e-004	49.8988
Total		**5.0100e-003**	**0.0456**	**0.0383**	**2.7000e-004**		**3.4600e-003**	**3.4600e-003**		**3.4600e-003**	**3.4600e-003**	**0.0000**	**49.6041**	**49.6041**	**9.5000e-004**	**9.1000e-004**	**49.8988**

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	929545	5.0100e-003	0.0456	0.0383	2.7000e-004		3.4600e-003	3.4600e-003		3.4600e-003	3.4600e-003	0.0000	49.6041	49.6041	9.5000e-004	9.1000e-004	49.8988
Total		**5.0100e-003**	**0.0456**	**0.0383**	**2.7000e-004**		**3.4600e-003**	**3.4600e-003**		**3.4600e-003**	**3.4600e-003**	**0.0000**	**49.6041**	**49.6041**	**9.5000e-004**	**9.1000e-004**	**49.8988**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	27457.8	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.08065e+006	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	27457.8	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.08065e+006	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.7358	3.0000e-005	3.4900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.3100e-003	6.3100e-003	1.0000e-005	0.0000	6.6300e-003
Unmitigated	1.8958	6.0000e-005	6.0300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0117	0.0117	3.0000e-005	0.0000	0.0125

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	0.2133					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6820					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.6000e-004	6.0000e-005	6.0300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0117	0.0117	3.0000e-005	0.0000	0.0125
Total	**1.8958**	**6.0000e-005**	**6.0300e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0117**	**0.0117**	**3.0000e-005**	**0.0000**	**0.0125**

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	0.0536					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6820					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.4000e-004	3.0000e-005	3.4900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.3100e-003	6.3100e-003	1.0000e-005	0.0000	6.6300e-003
Total	**1.7358**	**3.0000e-005**	**3.4900e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**6.3100e-003**	**6.3100e-003**	**1.0000e-005**	**0.0000**	**6.6300e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	26.5508	2.7270	0.0644	113.9147
Unmitigated	26.5508	2.7270	0.0644	113.9147

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	83.6894 / 0	26.5508	2.7270	0.0644	113.9147
Total		**26.5508**	**2.7270**	**0.0644**	**113.9147**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	83.6894 / 0	26.5508	2.7270	0.0644	113.9147
Total		**26.5508**	**2.7270**	**0.0644**	**113.9147**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	69.0555	4.0811	0.0000	171.0821
Unmitigated	69.0555	4.0811	0.0000	171.0821

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	340.19	69.0555	4.0811	0.0000	171.0821
Total		**69.0555**	**4.0811**	**0.0000**	**171.0821**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	340.19	69.0555	4.0811	0.0000	171.0821
Total		**69.0555**	**4.0811**	**0.0000**	**171.0821**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Phase 2 Operation Architectural Coating_Mit

San Bernardino-South Coast County, 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												
Rough Grading	0.10	0.07	-0.06	0.00	0.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Crawler Tractors	Diesel	Tier 4 Interim	1	1	No Change	0.00
Excavators	Diesel	Tier 4 Interim	1	0	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	1	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	0	No Change	0.00

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					
Crawler Tractors	2.50000E-004	2.67000E-003	1.87000E-003	0.00000E+000	1.10000E-004	1.00000E-004	0.00000E+000	4.19420E-001	4.19420E-001	1.40000E-004	0.00000E+000	4.22810E-001
Excavators	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
Graders	2.10000E-004	2.63000E-003	8.60000E-004	0.00000E+000	8.00000E-005	8.00000E-005	0.00000E+000	2.90880E-001	2.90880E-001	9.00000E-005	0.00000E+000	2.93230E-001
Rubber Tired Dozers	4.20000E-004	4.40000E-003	1.79000E-003	0.00000E+000	2.10000E-004	1.90000E-004	0.00000E+000	3.75140E-001	3.75140E-001	1.20000E-004	0.00000E+000	3.78170E-001
Scrapers	8.20000E-004	8.94000E-003	6.38000E-003	2.00000E-005	3.50000E-004	3.20000E-004	0.00000E+000	1.33383E+000	1.33383E+000	4.30000E-004	0.00000E+000	1.34461E+000
Tractors/Loaders/Backhoes	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

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					

Crawler Tractors	8.00000E-005	1.26000E-003	2.53000E-003	0.00000E+000	1.00000E-005	1.00000E-005	0.00000E+000	4.19420E-001	4.19420E-001	1.40000E-004	0.00000E+000	4.22810E-001
Excavators	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
Graders	2.10000E-004	2.63000E-003	8.60000E-004	0.00000E+000	8.00000E-005	8.00000E-005	0.00000E+000	2.90880E-001	2.90880E-001	9.00000E-005	0.00000E+000	2.93230E-001
Rubber Tired Dozers	4.20000E-004	4.40000E-003	1.79000E-003	0.00000E+000	2.10000E-004	1.90000E-004	0.00000E+000	3.75140E-001	3.75140E-001	1.20000E-004	0.00000E+000	3.78170E-001
Scrapers	8.20000E-004	8.94000E-003	6.38000E-003	2.00000E-005	3.50000E-004	3.20000E-004	0.00000E+000	1.33383E+000	1.33383E+000	4.30000E-004	0.00000E+000	1.34461E+000
Tractors/Loaders/Backhoes	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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Crawler Tractors	6.80000E-001	5.28090E-001	-3.52941E-001	0.00000E+000	9.09091E-001	9.00000E-001	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Excavators	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
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
Rubber Tired Dozers	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
Scrapers	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
Tractors/Loaders/Backhoes	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

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		
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	9.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Rough Grading	Fugitive Dust	0.06	0.01	0.03	0.00	0.57	0.57
Rough Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	74.87	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
Electricity	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	57.14	50.00	42.12	0.00	50.00	50.00	0.00	46.07	46.07	66.67	0.00	46.88
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 Selected	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.10	0.32		
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			
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	
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
Yes	Use Low VOC Paint (Non-residential Interior)	25.00
Yes	Use Low VOC Paint (Non-residential Exterior)	25.00
Yes	Use Low VOC Paint (Parking)	50.00
Yes	% Electric Lawnmower	100.00
Yes	% Electric Leafblower	100.00
Yes	% Electric Chainsaw	100.00

Energy Mitigation Measures

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

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

5. Screening-Level Construction Localized Significance Thresholds Worksheets

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Construction Localized Significance Thresholds: Off-Site Asphalt Demolition & Demolition Debris Processing

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	1.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	1	0.5
NOx	**118**	Graders	0.5	0.0625			0
CO	**863**	Dozers	0.5	0.0625	8	1	0.5
PM10	**5.00**	Scrapers	1	0.125			0
PM2.5	**4.00**					**Acres**	1.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
		118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
		863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
		5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
		4	6	12	32	141

Southwest San Bernardino Valley

1.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	118	148	211	334	652
CO	863	1328	2423	5691	23065
PM10	5	14	44	103	280
PM2.5	4	6	12	32	141

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	1	33	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Offsite Asphalt Demolition+Processing, Phase 1 Building Demolition, & Phase 2 Building Demolition

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	3.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	5	2.5
NOx	**203**	Graders	0.5	0.0625			0
CO	**1,552**	Dozers	0.5	0.0625	8	1	0.5
PM10	**9.33**	Scrapers	1	0.125			0
PM2.5	**6.33**					**Acres**	3.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	3	203	234	301	414	715
	3	203	234	301	414	715
		203	234	301	414	715
CO	3	1552	2244	3875	7722	26315
	3	1552	2244	3875	7722	26315
		1552	2244	3875	7722	26315
PM10	3	9	29	49	91	214
	3	9	29	49	91	214
		9	29	49	91	214
PM2.5	3	6	9	16	39	157
	3	6	9	16	39	157
		6	9	16	39	157

Southwest San Bernardino Valley

3.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	203	234	301	414	715
CO	1552	2244	3875	7722	26315
PM10	9	29	49	91	214
PM2.5	6	9	16	39	157

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	3	33	3
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Offsite Asphalt Demolition, Offsite Asphalt Demolition Debris Processing, & Phase 1 Building Demolition

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	2.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	3	1.5
NOx	**170**	Graders	0.5	0.0625			0
CO	**1,232**	Dozers	0.5	0.0625	8	1	0.5
PM10	**6.00**	Scrapers	1	0.125			0
PM2.5	**5.00**					**Acres**	2.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	2	170	200	263	378	684
	2	170	200	263	378	684
		170	200	263	378	684
CO	2	1232	1877	3218	6778	24768
	2	1232	1877	3218	6778	24768
		1232	1877	3218	6778	24768
PM10	2	6	19	34	66	160
	2	6	19	34	66	160
		6	19	34	66	160
PM2.5	2	5	8	14	36	150
	2	5	8	14	36	150
		5	8	14	36	150

Southwest San Bernardino Valley

2.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	170	200	263	378	684
CO	1232	1877	3218	6778	24768
PM10	6	19	34	66	160
PM2.5	5	8	14	36	150

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	2	33	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Offsite Asphalt Demolition, Offsite Asphalt Demolition Debris Processing, Phase 1 Asphalt Demolition, Phase 1 Asphalt Demolition Debris Haul, Phase 1 Asphalt Demolition Debris Processing, Phase 2 Bulding Demolition Debris Haul, Phase 2 Building Demolition Debris Processing, & Phase 2 Asphalt Demolition

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	3.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	5	2.5
NOx	**203**	Graders	0.5	0.0625			0
CO	**1,552**	Dozers	0.5	0.0625	8	1	0.5
PM10	**9.33**	Scrapers	1	0.125			0
PM2.5	**6.33**					**Acres**	3.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	3	203	234	301	414	715
	3	203	234	301	414	715
		203	234	301	414	715
CO	3	1552	2244	3875	7722	26315
	3	1552	2244	3875	7722	26315
		1552	2244	3875	7722	26315
PM10	3	9	29	49	91	214
	3	9	29	49	91	214
		9	29	49	91	214
PM2.5	3	6	9	16	39	157
	3	6	9	16	39	157
		6	9	16	39	157

Southwest San Bernardino Valley

3.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	203	234	301	414	715
CO	1552	2244	3875	7722	26315
PM10	9	29	49	91	214
PM2.5	6	9	16	39	157

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	3	33	3
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Offsite Asphalt Demolition, Offsite Asphalt Demolition Debris Processing, Phase 1 Asphalt Demolition, & Phase 2 Asphalt Demolition

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	3.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	5	2.5
NOx	**203**	Graders	0.5	0.0625			0
CO	**1,552**	Dozers	0.5	0.0625	8	1	0.5
PM10	**9.33**	Scrapers	1	0.125			0
PM2.5	**6.33**					**Acres**	3.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	3	203	234	301	414	715
	3	203	234	301	414	715
		203	234	301	414	715
CO	3	1552	2244	3875	7722	26315
	3	1552	2244	3875	7722	26315
		1552	2244	3875	7722	26315
PM10	3	9	29	49	91	214
	3	9	29	49	91	214
		9	29	49	91	214
PM2.5	3	6	9	16	39	157
	3	6	9	16	39	157
		6	9	16	39	157

Southwest San Bernardino Valley

3.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	203	234	301	414	715
CO	1552	2244	3875	7722	26315
PM10	9	29	49	91	214
PM2.5	6	9	16	39	157

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	3	33	3
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 1 Asphalt Demolition & Phase 2 Asphalt Demolition

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	2.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	4	2
NOx	**170**	Graders	0.5	0.0625			0
CO	**1,232**	Dozers	0.5	0.0625			0
PM10	**6.00**	Scrapers	1	0.125			0
PM2.5	**5.00**					**Acres**	2.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	2	170	200	263	378	684
	2	170	200	263	378	684
		170	200	263	378	684
CO	2	1232	1877	3218	6778	24768
	2	1232	1877	3218	6778	24768
		1232	1877	3218	6778	24768
PM10	2	6	19	34	66	160
	2	6	19	34	66	160
		6	19	34	66	160
PM2.5	2	5	8	14	36	150
	2	5	8	14	36	150
		5	8	14	36	150

Southwest San Bernardino Valley

2.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	170	200	263	378	684
CO	1232	1877	3218	6778	24768
PM10	6	19	34	66	160
PM2.5	5	8	14	36	150

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	2	33	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 1 Asphalt Demolition

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	1.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	2	1
NOx	**118**	Graders	0.5	0.0625			0
CO	**863**	Dozers	0.5	0.0625			0
PM10	**5.00**	Scrapers	1	0.125			0
PM2.5	**4.00**					**Acres**	1.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
		118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
		863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
		5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
		4	6	12	32	141

Southwest San Bernardino Valley

1.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	118	148	211	334	652
CO	863	1328	2423	5691	23065
PM10	5	14	44	103	280
PM2.5	4	6	12	32	141

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	1	33	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 1 Asphalt Demolition & Phase 1 Asphalt Demolition Debris Processing

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	1.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	2	1
NOx	**118**	Graders	0.5	0.0625			0
CO	**863**	Dozers	0.5	0.0625			0
PM10	**5.00**	Scrapers	1	0.125			0
PM2.5	**4.00**					**Acres**	1.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
		118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
		863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
		5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
		4	6	12	32	141

Southwest San Bernardino Valley

1.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	118	148	211	334	652
CO	863	1328	2423	5691	23065
PM10	5	14	44	103	280
PM2.5	4	6	12	32	141

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	1	33	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 1 Asphalt Demolition, Phase 1 Asphalt Demolition Debris Processing, Phase 1 Asphalt Demolition Debris Haul, Phase 2 Asphalt Demolition Debris Haul, & Phase 2 Asphalt Demolition Debris Processing

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	1.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	2	1
NOx	**118**	Graders	0.5	0.0625			0
CO	**863**	Dozers	0.5	0.0625			0
PM10	**5.00**	Scrapers	1	0.125			0
PM2.5	**4.00**					**Acres**	1.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
		118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
		863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
		5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
		4	6	12	32	141

Southwest San Bernardino Valley

1.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	118	148	211	334	652
CO	863	1328	2423	5691	23065
PM10	5	14	44	103	280
PM2.5	4	6	12	32	141

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	1	33	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 1 Asphalt Demolition, Phase 1 Asphalt Demolition Debris Processing, Phase 1 Asphalt Demolition Debris Haul, & Phase 2 Asphalt Demolition Debris Processing

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	1.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	2	1
NOx	**118**	Graders	0.5	0.0625			0
CO	**863**	Dozers	0.5	0.0625			0
PM10	**5.00**	Scrapers	1	0.125			0
PM2.5	**4.00**					**Acres**	1.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
		118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
		863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
		5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
		4	6	12	32	141

Southwest San Bernardino Valley

1.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	118	148	211	334	652
CO	863	1328	2423	5691	23065
PM10	5	14	44	103	280
PM2.5	4	6	12	32	141

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	1	33	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 1 Asphalt Demolition, Phase 1 Asphalt Demolition Debris Processing, & Phase 1 Asphalt Demolition Debris Haul

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	1.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	2	1
NOx	**118**	Graders	0.5	0.0625			0
CO	**863**	Dozers	0.5	0.0625			0
PM10	**5.00**	Scrapers	1	0.125			0
PM2.5	**4.00**					**Acres**	1.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
		118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
		863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
		5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
		4	6	12	32	141

Southwest San Bernardino Valley

1.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	118	148	211	334	652
CO	863	1328	2423	5691	23065
PM10	5	14	44	103	280
PM2.5	4	6	12	32	141

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	1	33	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 1 Rough Grading & Phase 1 Rough Grading Haul

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	5.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	3	1.5
NOx	**270**	Graders	0.5	0.0625	8	2	1
CO	**2,193**	Dozers	0.5	0.0625			0
PM10	**15.99**	Scrapers	1	0.125	8	6	6
PM2.5	**9.00**					**Acres**	8.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	5	270	303	378	486	778
	5	270	303	378	486	778
		270	303	378	486	778
CO	5	2193	2978	5188	9611	29410
	5	2193	2978	5188	9611	29410
		2193	2978	5188	9611	29410
PM10	5	16	50	80	140	322
	5	16	50	80	140	322
		16	50	80	140	322
PM2.5	5	9	12	21	45	170
	5	9	12	21	45	170
		9	12	21	45	170

Southwest San Bernardino Valley

5.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	270	303	378	486	778
CO	2193	2978	5188	9611	29410
PM10	16	50	80	140	322
PM2.5	9	12	21	45	170

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	5	33	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 1 Rough Grading, Phase 1 Rough Grading Haul, & Offsite Utility Trenching

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	5.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	4	2
NOx	**270**	Graders	0.5	0.0625			0
CO	**2,193**	Dozers	0.5	0.0625	8	2	1
PM10	**15.99**	Scrapers	1	0.125	8	6	6
PM2.5	**9.00**					**Acres**	9.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	5	270	303	378	486	778
	5	270	303	378	486	778
		270	303	378	486	778
CO	5	2193	2978	5188	9611	29410
	5	2193	2978	5188	9611	29410
		2193	2978	5188	9611	29410
PM10	5	16	50	80	140	322
	5	16	50	80	140	322
		16	50	80	140	322
PM2.5	5	9	12	21	45	170
	5	9	12	21	45	170
		9	12	21	45	170

Southwest San Bernardino Valley

5.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	270	303	378	486	778
CO	2193	2978	5188	9611	29410
PM10	16	50	80	140	322
PM2.5	9	12	21	45	170

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	5	33	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 1 Rough Grading Haul, Offsite Utility Trenching, Phase 1 Utility Trenching, & Phase 1 Building Construction

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	2.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	4	2
NOx	**170**	Graders	0.5	0.0625			0
CO	**1,232**	Dozers	0.5	0.0625			0
PM10	**6.00**	Scrapers	1	0.125			0
PM2.5	**5.00**					**Acres**	2.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	2	170	200	263	378	684
	2	170	200	263	378	684
		170	200	263	378	684
CO	2	1232	1877	3218	6778	24768
	2	1232	1877	3218	6778	24768
		1232	1877	3218	6778	24768
PM10	2	6	19	34	66	160
	2	6	19	34	66	160
		6	19	34	66	160
PM2.5	2	5	8	14	36	150
	2	5	8	14	36	150
		5	8	14	36	150

Southwest San Bernardino Valley

2.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	170	200	263	378	684
CO	1232	1877	3218	6778	24768
PM10	6	19	34	66	160
PM2.5	5	8	14	36	150

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	2	33	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Offsite Utility Trenching, Phase 1 Utility Trenching, & Phase 1 Building Construction

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	2.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	4	2
NOx	**170**	Graders	0.5	0.0625			0
CO	**1,232**	Dozers	0.5	0.0625			0
PM10	**6.00**	Scrapers	1	0.125			0
PM2.5	**5.00**					**Acres**	2.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	2	170	200	263	378	684
	2	170	200	263	378	684
		170	200	263	378	684
CO	2	1232	1877	3218	6778	24768
	2	1232	1877	3218	6778	24768
		1232	1877	3218	6778	24768
PM10	2	6	19	34	66	160
	2	6	19	34	66	160
		6	19	34	66	160
PM2.5	2	5	8	14	36	150
	2	5	8	14	36	150
		5	8	14	36	150

Southwest San Bernardino Valley

2.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	170	200	263	378	684
CO	1232	1877	3218	6778	24768
PM10	6	19	34	66	160
PM2.5	5	8	14	36	150

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	2	33	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Offsite Utility Trenching & Phase 1 Building Construction

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	0.50	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	1	0.5
NOx	**118**	Graders	0.5	0.0625			0
CO	**863**	Dozers	0.5	0.0625			0
PM10	**5.00**	Scrapers	1	0.125			0
PM2.5	**4.00**					**Acres**	0.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
		118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
		863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
		5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
		4	6	12	32	141

Southwest San Bernardino Valley

0.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	118	148	211	334	652
CO	863	1328	2423	5691	23065
PM10	5	14	44	103	280
PM2.5	4	6	12	32	141

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	1	33	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Offsite Utility Trenching, Phase 1 Building Construction, & Phase 1 Fine Grading

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	1.50	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	1	0.5
NOx	**144**	Graders	0.5	0.0625	8	2	1
CO	**1,047**	Dozers	0.5	0.0625			0
PM10	**5.50**	Scrapers	1	0.125	8		0
PM2.5	**4.50**					**Acres**	1.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	118	148	211	334	652
	2	170	200	263	378	684
		144	174	237	356	668
CO	1	863	1328	2423	5691	23065
	2	1232	1877	3218	6778	24768
		1048	1603	2821	6235	23917
PM10	1	5	14	44	103	280
	2	6	19	34	66	160
		6	17	39	85	220
PM2.5	1	4	6	12	32	141
	2	5	8	14	36	150
		5	7	13	34	146

Southwest San Bernardino Valley

1.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	144	174	237	356	668
CO	1048	1603	2821	6235	23917
PM10	6	17	39	85	220
PM2.5	5	7	13	34	146

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	1	33	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Offsite Utility Trenching, Phase 1 Building Construction, & Phase 1 Finishing/Landscaping

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	2.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	4	2
NOx	**170**	Graders	0.5	0.0625			0
CO	**1,232**	Dozers	0.5	0.0625			0
PM10	**6.00**	Scrapers	1	0.125			0
PM2.5	**5.00**					**Acres**	2.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	2	170	200	263	378	684
	2	170	200	263	378	684
		170	200	263	378	684
CO	2	1232	1877	3218	6778	24768
	2	1232	1877	3218	6778	24768
		1232	1877	3218	6778	24768
PM10	2	6	19	34	66	160
	2	6	19	34	66	160
		6	19	34	66	160
PM2.5	2	5	8	14	36	150
	2	5	8	14	36	150
		5	8	14	36	150

Southwest San Bernardino Valley

2.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	170	200	263	378	684
CO	1232	1877	3218	6778	24768
PM10	6	19	34	66	160
PM2.5	5	8	14	36	150

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	2	33	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Offsite Utility Trenching, Phase 1 Building Construction, Phase 1 Finishing/Landscaping, Offsite Fine Grading, & Phase 1 Asphalt Paving

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	3.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	5	2.5
NOx	**203**	Graders	0.5	0.0625	8	1	0.5
CO	**1,552**	Dozers	0.5	0.0625			0
PM10	**9.33**	Scrapers	1	0.125			0
PM2.5	**6.33**					**Acres**	3.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	3	203	234	301	414	715
	3	203	234	301	414	715
		203	234	301	414	715
CO	3	1552	2244	3875	7722	26315
	3	1552	2244	3875	7722	26315
		1552	2244	3875	7722	26315
PM10	3	9	29	49	91	214
	3	9	29	49	91	214
		9	29	49	91	214
PM2.5	3	6	9	16	39	157
	3	6	9	16	39	157
		6	9	16	39	157

Southwest San Bernardino Valley

3.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	203	234	301	414	715
CO	1552	2244	3875	7722	26315
PM10	9	29	49	91	214
PM2.5	6	9	16	39	157

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	3	33	3
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 1 Building Construction, Phase 1 Finishing/Landscaping, Offsite Fine Grading, & Phase 1 Asphalt Paving

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	2.50	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	4	2
NOx	**187**	Graders	0.5	0.0625	8	1	0.5
CO	**1,392**	Dozers	0.5	0.0625			0
PM10	**7.66**	Scrapers	1	0.125			0
PM2.5	**5.67**					**Acres**	2.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	2	170	200	263	378	684
	3	203	234	301	414	715
		187	217	282	396	700
CO	2	1232	1877	3218	6778	24768
	3	1552	2244	3875	7722	26315
		1392	2061	3546	7250	25542
PM10	2	6	19	34	66	160
	3	9	29	49	91	214
		8	24	42	78	187
PM2.5	2	5	8	14	36	150
	3	6	9	16	39	157
		6	9	15	38	153

Southwest San Bernardino Valley

2.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	187	217	282	396	700
CO	1392	2061	3546	7250	25542
PM10	8	24	42	78	187
PM2.5	6	9	15	38	153

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	2	33	3
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 1 Building Construction, Phase 1 Finishing/Landscaping, & Offsite Fine Grading

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	2.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	4	2
NOx	**170**	Graders	0.5	0.0625			0
CO	**1,232**	Dozers	0.5	0.0625			0
PM10	**6.00**	Scrapers	1	0.125			0
PM2.5	**5.00**					**Acres**	2.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	2	170	200	263	378	684
	2	170	200	263	378	684
		170	200	263	378	684
CO	2	1232	1877	3218	6778	24768
	2	1232	1877	3218	6778	24768
		1232	1877	3218	6778	24768
PM10	2	6	19	34	66	160
	2	6	19	34	66	160
		6	19	34	66	160
PM2.5	2	5	8	14	36	150
	2	5	8	14	36	150
		5	8	14	36	150

Southwest San Bernardino Valley

2.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	170	200	263	378	684
CO	1232	1877	3218	6778	24768
PM10	6	19	34	66	160
PM2.5	5	8	14	36	150

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	2	33	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 1 Building Construction, Phase 1 Finishing/Landscaping, Offsite Fine Grading, & Phase 1 Architectural Coating

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	2.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	4	2
NOx	**170**	Graders	0.5	0.0625			0
CO	**1,232**	Dozers	0.5	0.0625			0
PM10	**6.00**	Scrapers	1	0.125			0
PM2.5	**5.00**					**Acres**	2.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	2	170	200	263	378	684
	2	170	200	263	378	684
		170	200	263	378	684
CO	2	1232	1877	3218	6778	24768
	2	1232	1877	3218	6778	24768
		1232	1877	3218	6778	24768
PM10	2	6	19	34	66	160
	2	6	19	34	66	160
		6	19	34	66	160
PM2.5	2	5	8	14	36	150
	2	5	8	14	36	150
		5	8	14	36	150

Southwest San Bernardino Valley

2.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	170	200	263	378	684
CO	1232	1877	3218	6778	24768
PM10	6	19	34	66	160
PM2.5	5	8	14	36	150

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	2	33	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 1 Building Construction, Offsite Fine Grading, & Phase 1 Architectural Coating

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
5	0.50	25	82

Source Receptor	Southeast LA County	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	1	0.5
NOx	**80**	Graders	0.5	0.0625			0
CO	**571**	Dozers	0.5	0.0625			0
PM10	**4.00**	Scrapers	1	0.125			0
PM2.5	**3.00**					**Acres**	0.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	80	81	94	123	192
	1	80	81	94	123	192
		80	81	94	123	192
CO	1	571	735	1088	2104	6854
	1	571	735	1088	2104	6854
		571	735	1088	2104	6854
PM10	1	4	13	30	66	173
	1	4	13	30	66	173
		4	13	30	66	173
PM2.5	1	3	4	8	19	86
	1	3	4	8	19	86
		3	4	8	19	86

Southeast LA County

0.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	80	81	94	123	192
CO	571	735	1088	2104	6854
PM10	4	13	30	66	173
PM2.5	3	4	8	19	86

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
5	1	5	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 1 Building Construction, Phase 1 Architectural Coating, Offsite Asphalt Paving, & Offsite Finishing/Landscaping

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	1.50	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	3	1.5
NOx	**144**	Graders	0.5	0.0625			0
CO	**1,047**	Dozers	0.5	0.0625			0
PM10	**5.50**	Scrapers	1	0.125			0
PM2.5	**4.50**					**Acres**	1.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	118	148	211	334	652
	2	170	200	263	378	684
		144	174	237	356	668
CO	1	863	1328	2423	5691	23065
	2	1232	1877	3218	6778	24768
		1048	1603	2821	6235	23917
PM10	1	5	14	44	103	280
	2	6	19	34	66	160
		6	17	39	85	220
PM2.5	1	4	6	12	32	141
	2	5	8	14	36	150
		5	7	13	34	146

Southwest San Bernardino Valley

1.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	144	174	237	356	668
CO	1048	1603	2821	6235	23917
PM10	6	17	39	85	220
PM2.5	5	7	13	34	146

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	1	33	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 1 Building Construction, Offsite Asphalt Paving, & Offsite Finishing/Landscaping

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	1.50	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	3	1.5
NOx	**144**	Graders	0.5	0.0625			0
CO	**1,047**	Dozers	0.5	0.0625			0
PM10	**5.50**	Scrapers	1	0.125			0
PM2.5	**4.50**					**Acres**	1.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	118	148	211	334	652
	2	170	200	263	378	684
		144	174	237	356	668
CO	1	863	1328	2423	5691	23065
	2	1232	1877	3218	6778	24768
		1048	1603	2821	6235	23917
PM10	1	5	14	44	103	280
	2	6	19	34	66	160
		6	17	39	85	220
PM2.5	1	4	6	12	32	141
	2	5	8	14	36	150
		5	7	13	34	146

Southwest San Bernardino Valley

1.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	144	174	237	356	668
CO	1048	1603	2821	6235	23917
PM10	6	17	39	85	220
PM2.5	5	7	13	34	146

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	1	33	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 1 Building Construction & Offsite Finishing/Landscaping

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	1.50	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	3	1.5
NOx	**144**	Graders	0.5	0.0625			0
CO	**1,047**	Dozers	0.5	0.0625			0
PM10	**5.50**	Scrapers	1	0.125			0
PM2.5	**4.50**					**Acres**	1.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	118	148	211	334	652
	2	170	200	263	378	684
		144	174	237	356	668
CO	1	863	1328	2423	5691	23065
	2	1232	1877	3218	6778	24768
		1048	1603	2821	6235	23917
PM10	1	5	14	44	103	280
	2	6	19	34	66	160
		6	17	39	85	220
PM2.5	1	4	6	12	32	141
	2	5	8	14	36	150
		5	7	13	34	146

Southwest San Bernardino Valley

1.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	144	174	237	356	668
CO	1048	1603	2821	6235	23917
PM10	6	17	39	85	220
PM2.5	5	7	13	34	146

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	1	33	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Offsite Finishing/Landscaping

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	1.50	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	3	1.5
NOx	**144**	Graders	0.5	0.0625			0
CO	**1,047**	Dozers	0.5	0.0625			0
PM10	**5.50**	Scrapers	1	0.125			0
PM2.5	**4.50**					**Acres**	1.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	118	148	211	334	652
	2	170	200	263	378	684
		144	174	237	356	668
CO	1	863	1328	2423	5691	23065
	2	1232	1877	3218	6778	24768
		1048	1603	2821	6235	23917
PM10	1	5	14	44	103	280
	2	6	19	34	66	160
		6	17	39	85	220
PM2.5	1	4	6	12	32	141
	2	5	8	14	36	150
		5	7	13	34	146

Southwest San Bernardino Valley

1.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	144	174	237	356	668
CO	1048	1603	2821	6235	23917
PM10	6	17	39	85	220
PM2.5	5	7	13	34	146

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	1	33	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Offsite Finishing/Landscaping, Phase 2 Rough Grading, & Phase 2 Rough Grading Haul

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	5.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	4	2
NOx	**270**	Graders	0.5	0.0625	8	2	1
CO	**2,193**	Dozers	0.5	0.0625	8	2	1
PM10	**15.99**	Scrapers	1	0.125	8	6	6
PM2.5	**9.00**					**Acres**	10.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	5	270	303	378	486	778
	5	270	303	378	486	778
		270	303	378	486	778
CO	5	2193	2978	5188	9611	29410
	5	2193	2978	5188	9611	29410
		2193	2978	5188	9611	29410
PM10	5	16	50	80	140	322
	5	16	50	80	140	322
		16	50	80	140	322
PM2.5	5	9	12	21	45	170
	5	9	12	21	45	170
		9	12	21	45	170

Southwest San Bernardino Valley

5.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	270	303	378	486	778
CO	2193	2978	5188	9611	29410
PM10	16	50	80	140	322
PM2.5	9	12	21	45	170

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	5	33	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Offsite Finishing/Landscaping & Phase 2 Rough Grading Haul

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	1.50	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	3	1.5
NOx	**144**	Graders	0.5	0.0625			0
CO	**1,047**	Dozers	0.5	0.0625			0
PM10	**5.50**	Scrapers	1	0.125			0
PM2.5	**4.50**					**Acres**	1.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	118	148	211	334	652
	2	170	200	263	378	684
		144	174	237	356	668
CO	1	863	1328	2423	5691	23065
	2	1232	1877	3218	6778	24768
		1048	1603	2821	6235	23917
PM10	1	5	14	44	103	280
	2	6	19	34	66	160
		6	17	39	85	220
PM2.5	1	4	6	12	32	141
	2	5	8	14	36	150
		5	7	13	34	146

Southwest San Bernardino Valley

1.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	144	174	237	356	668
CO	1048	1603	2821	6235	23917
PM10	6	17	39	85	220
PM2.5	5	7	13	34	146

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	1	33	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Offsite Finishing/Landscaping, Phase 2 Rough Grading Haul, Phase 2 Utility Trenching, & Phase 2 Building Construction

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	3.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	6	3
NOx	**203**	Graders	0.5	0.0625			0
CO	**1,552**	Dozers	0.5	0.0625			0
PM10	**9.33**	Scrapers	1	0.125			0
PM2.5	**6.33**					**Acres**	3.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	3	203	234	301	414	715
	3	203	234	301	414	715
		203	234	301	414	715
CO	3	1552	2244	3875	7722	26315
	3	1552	2244	3875	7722	26315
		1552	2244	3875	7722	26315
PM10	3	9	29	49	91	214
	3	9	29	49	91	214
		9	29	49	91	214
PM2.5	3	6	9	16	39	157
	3	6	9	16	39	157
		6	9	16	39	157

Southwest San Bernardino Valley

3.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	203	234	301	414	715
CO	1552	2244	3875	7722	26315
PM10	9	29	49	91	214
PM2.5	6	9	16	39	157

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	3	33	3
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Offsite Finishing/Landscaping, Phase 2 Utility Trenching, & Phase 2 Building Construction

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	3.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	6	3
NOx	**203**	Graders	0.5	0.0625			0
CO	**1,552**	Dozers	0.5	0.0625			0
PM10	**9.33**	Scrapers	1	0.125			0
PM2.5	**6.33**					**Acres**	3.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	3	203	234	301	414	715
	3	203	234	301	414	715
		203	234	301	414	715
CO	3	1552	2244	3875	7722	26315
	3	1552	2244	3875	7722	26315
		1552	2244	3875	7722	26315
PM10	3	9	29	49	91	214
	3	9	29	49	91	214
		9	29	49	91	214
PM2.5	3	6	9	16	39	157
	3	6	9	16	39	157
		6	9	16	39	157

Southwest San Bernardino Valley

3.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	203	234	301	414	715
CO	1552	2244	3875	7722	26315
PM10	9	29	49	91	214
PM2.5	6	9	16	39	157

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	3	33	3
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 2 Utility Trenching & Phase 2 Building Construction

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	1.50	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	3	1.5
NOx	**144**	Graders	0.5	0.0625			0
CO	**1,047**	Dozers	0.5	0.0625			0
PM10	**5.50**	Scrapers	1	0.125			0
PM2.5	**4.50**					**Acres**	1.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	118	148	211	334	652
	2	170	200	263	378	684
		144	174	237	356	668
CO	1	863	1328	2423	5691	23065
	2	1232	1877	3218	6778	24768
		1048	1603	2821	6235	23917
PM10	1	5	14	44	103	280
	2	6	19	34	66	160
		6	17	39	85	220
PM2.5	1	4	6	12	32	141
	2	5	8	14	36	150
		5	7	13	34	146

Southwest San Bernardino Valley

1.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	144	174	237	356	668
CO	1048	1603	2821	6235	23917
PM10	6	17	39	85	220
PM2.5	5	7	13	34	146

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	1	33	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 2 Building Construction & Phase 2 Fine Grading

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	2.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	**170**	Graders	0.5	0.0625	8	2	1
CO	**1,232**	Dozers	0.5	0.0625			0
PM10	**6.00**	Scrapers	1	0.125	8	1	1
PM2.5	**5.00**					**Acres**	2.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	2	170	200	263	378	684
	2	170	200	263	378	684
		170	200	263	378	684
CO	2	1232	1877	3218	6778	24768
	2	1232	1877	3218	6778	24768
		1232	1877	3218	6778	24768
PM10	2	6	19	34	66	160
	2	6	19	34	66	160
		6	19	34	66	160
PM2.5	2	5	8	14	36	150
	2	5	8	14	36	150
		5	8	14	36	150

Southwest San Bernardino Valley

2.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	170	200	263	378	684
CO	1232	1877	3218	6778	24768
PM10	6	19	34	66	160
PM2.5	5	8	14	36	150

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	2	33	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 2 Building Construction

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	0.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	**118**	Graders	0.5	0.0625			0
CO	**863**	Dozers	0.5	0.0625			0
PM10	**5.00**	Scrapers	1	0.125			0
PM2.5	**4.00**					**Acres**	0.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
		118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
		863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
		5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
		4	6	12	32	141

Southwest San Bernardino Valley

0.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	118	148	211	334	652
CO	863	1328	2423	5691	23065
PM10	5	14	44	103	280
PM2.5	4	6	12	32	141

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	1	33	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 2 Building Construction, Phase 2 Finishing/Landscaping, & Phase 2 Architectural Coating

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	1.50	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	3	1.5
NOx	**144**	Graders	0.5	0.0625			0
CO	**1,047**	Dozers	0.5	0.0625			0
PM10	**5.50**	Scrapers	1	0.125			0
PM2.5	**4.50**					**Acres**	1.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	118	148	211	334	652
	2	170	200	263	378	684
		144	174	237	356	668
CO	1	863	1328	2423	5691	23065
	2	1232	1877	3218	6778	24768
		1048	1603	2821	6235	23917
PM10	1	5	14	44	103	280
	2	6	19	34	66	160
		6	17	39	85	220
PM2.5	1	4	6	12	32	141
	2	5	8	14	36	150
		5	7	13	34	146

Southwest San Bernardino Valley

1.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	144	174	237	356	668
CO	1048	1603	2821	6235	23917
PM10	6	17	39	85	220
PM2.5	5	7	13	34	146

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	1	33	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 2 Building Construction, Phase 2 Finishing/Landscaping, Phase 2 Architectural Coating, & Phase 2 Asphalt Paving

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	2.00	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	3	1.5
NOx	**170**	Graders	0.5	0.0625	8	1	0.5
CO	**1,232**	Dozers	0.5	0.0625			0
PM10	**6.00**	Scrapers	1	0.125			0
PM2.5	**5.00**					**Acres**	2.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	2	170	200	263	378	684
	2	170	200	263	378	684
		170	200	263	378	684
CO	2	1232	1877	3218	6778	24768
	2	1232	1877	3218	6778	24768
		1232	1877	3218	6778	24768
PM10	2	6	19	34	66	160
	2	6	19	34	66	160
		6	19	34	66	160
PM2.5	2	5	8	14	36	150
	2	5	8	14	36	150
		5	8	14	36	150

Southwest San Bernardino Valley

2.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	170	200	263	378	684
CO	1232	1877	3218	6778	24768
PM10	6	19	34	66	160
PM2.5	5	8	14	36	150

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	2	33	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 2 Building Construction & Phase Finishing/Landscaping

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	1.50	25	82

Source Receptor	Southwest San Bernardino \	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
Distance (meters)	25	Tractors	0.5	0.0625	8	3	1.5
NOx	**144**	Graders	0.5	0.0625			0
CO	**1,047**	Dozers	0.5	0.0625			0
PM10	**5.50**	Scrapers	1	0.125			0
PM2.5	**4.50**					**Acres**	1.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	118	148	211	334	652
	2	170	200	263	378	684
		144	174	237	356	668
CO	1	863	1328	2423	5691	23065
	2	1232	1877	3218	6778	24768
		1048	1603	2821	6235	23917
PM10	1	5	14	44	103	280
	2	6	19	34	66	160
		6	17	39	85	220
PM2.5	1	4	6	12	32	141
	2	5	8	14	36	150
		5	7	13	34	146

Southwest San Bernardino Valley

1.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	144	174	237	356	668
CO	1048	1603	2821	6235	23917
PM10	6	17	39	85	220
PM2.5	5	7	13	34	146

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	1	33	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

6. Screening-Level Operational Localized Significance Thresholds Worksheets

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Operation Localized Significance Thresholds - Sensitive Receptor

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
33	5.00	25	82

Source Receptor	**Southwest San Bernardino Valley**				
Distance (meters)	25				
NOx	**270**				
CO	**2,193**				
PM10	**4.00**				
PM2.5	**2.00**				

	NOx	CO	PM10	PM2.5
Mobile Truck	105.09	31.10	31.33	10.39

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	5	270	303	378	486	778
	5	270	303	378	486	778
		270	303	378	486	778
CO	5	2193	2978	5188	9611	29410
	5	2193	2978	5188	9611	29410
		2193	2978	5188	9611	29410
PM10	5	4	12	20	34	78
	5	4	12	20	34	78
		4	12	20	34	78
PM2.5	5	2	3	5	11	41
	5	2	3	5	11	41
		2	3	5	11	41

Total VMT	31,840	Total Feet	168,115,200	
Total Trips	796	Feet per trip travel onsite		3200
Total Feet Traveled onsite	2,547,200	Percent of MMT		1.52%

	NOx	CO	PM10	PM2.5
Mobile-Source Emissions (highest)	105.09	31.10	31.33	10.39
% Mobile Source Emissions onsite	1.59	0.47	0.47	0.16
Mobile Truck	1.59	0.47	0.47	0.16
Total	***1.59***	***0.47118***	***0.474718182***	***0.15745***
LST Thresholds	**270**	**2193**	**4**	**2**
Exceeds Threshold?	**No**	**No**	**No**	**No**
Amount Exceeding Thresholds	**0**	**0**	**0**	**0**

Southwest San Bernardino Valley

5.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	270	303	378	486	778
CO	2193	2978	5188	9611	29410
PM10	4	12	20	34	78
PM2.5	2	3	5	11	41

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
33	5	33	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2010 - Table C-1. 2006 – 2008

7. South Coast Air Basin Air Quality Trends

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Air Quality Improvement Trends in the Air Basin

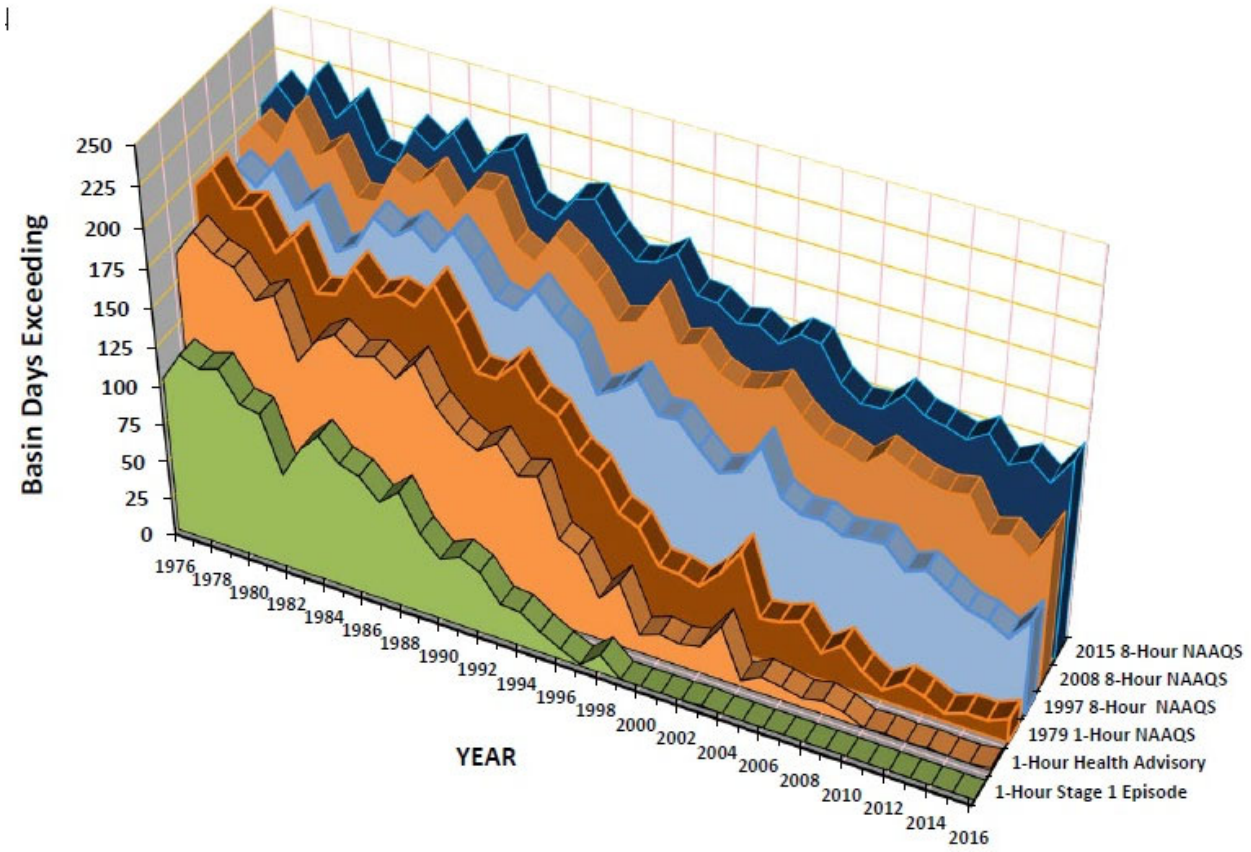
SCAQMD rule development through the 1970s and 1980s resulted in dramatic improvement in SoCAB air quality. Nearly all control programs developed through the early 1990s relied on (i) the development and application of cleaner technology; (ii) add-on emission controls, and (iii) uniform CEQA review throughout the SoCAB. Industrial emission sources have been significantly reduced by this approach and vehicular emissions have been reduced by technologies implemented at the state level by CARB.

As discussed above, the SCAQMD is the lead agency charged with regulating air quality emission reductions for the entire SoCAB. SCAQMD created AQMPs which represent a regional blueprint for achieving healthful air on behalf of the 16 million residents of the SoCAB. The historical improvement in air quality since the 1970's is the direct result of Southern California's comprehensive, multiyear strategy of reducing air pollution from all sources as outlined in its AQMPs and by utilizing uniform CEQA review throughout the SoCAB.

The 2012 AQMP states, "the remarkable historical improvement in air quality since the 1970's is the direct result of Southern California's comprehensive, multiyear strategy of reducing air pollution from all sources as outlined in its AQMPs," (SCAQMD 2012). Ozone, NO_X, VOC, and CO have been decreasing in the SoCAB since 1975 and are projected to continue to decrease through 2020 (CARB 2009; CARB 2013). These decreases result primarily from motor vehicle controls and reductions in evaporative emissions. Although vehicle miles traveled in the SoCAB continue to increase, NO_X and VOC levels are decreasing because of the mandated controls on motor vehicles and the replacement of older polluting vehicles with lower-emitting vehicles. NO_X emissions from electric utilities have also decreased due to use of cleaner fuels and renewable energy. Ozone contour maps show that the number of days exceeding the national 8-hour standard has decreased between 1997 and 2007. In the 2007 period, there was an overall decrease in exceedance days compared with the 1997 period. The overall trends of PM_{10} and $PM_{2.5}$ in the air (not emissions) show an overall improvement since 1975. Direct emissions of PM_{10} have remained somewhat constant in the SoCAB and direct emissions of $PM_{2.5}$ have decreased slightly since 1975. Area wide sources (fugitive dust from roads, dust from construction and demolition, and other sources) contribute the greatest amount of direct particulate matter emissions.

Ozone levels in the SoCAB have decreased substantially over the last 30 years as shown in Exhibit 1, *South Coast Air Basin Ozone Trend* (SCAQMD 2018). Today, the maximum measured concentrations are approximately one-third of concentrations within the late 70's.

Exhibit 1: South Coast Air Basin Ozone Trend



As with other pollutants, the most recent PM_{10} statistics also show overall improvement as illustrated in Exhibit 2, *South Coast Air Basin PM_{10} Trend*. During the period for which data are available, the 24-hour national annual average decreased by almost 45 percent, from 103.7 μg/m³ in 1989 to 57.6 μg/m³ in 2014. Although the values in the late 1990's show some variability, this is probably due to meteorology rather than a change in emissions. Despite the overall decrease, ambient concentrations still exceed the State annual and 24-hour PM_{10} standards. Similar to the ambient concentrations, the calculated number of days above the 24-hour PM_{10} standards has also shown an overall drop. During 1995, there were 25 calculated days above the national standard. By 2014, there was one calculated national standard exceedance days (CARB 2018b).

Exhibit 5.2-2: South Coast Air Basin PM_{10} Trend

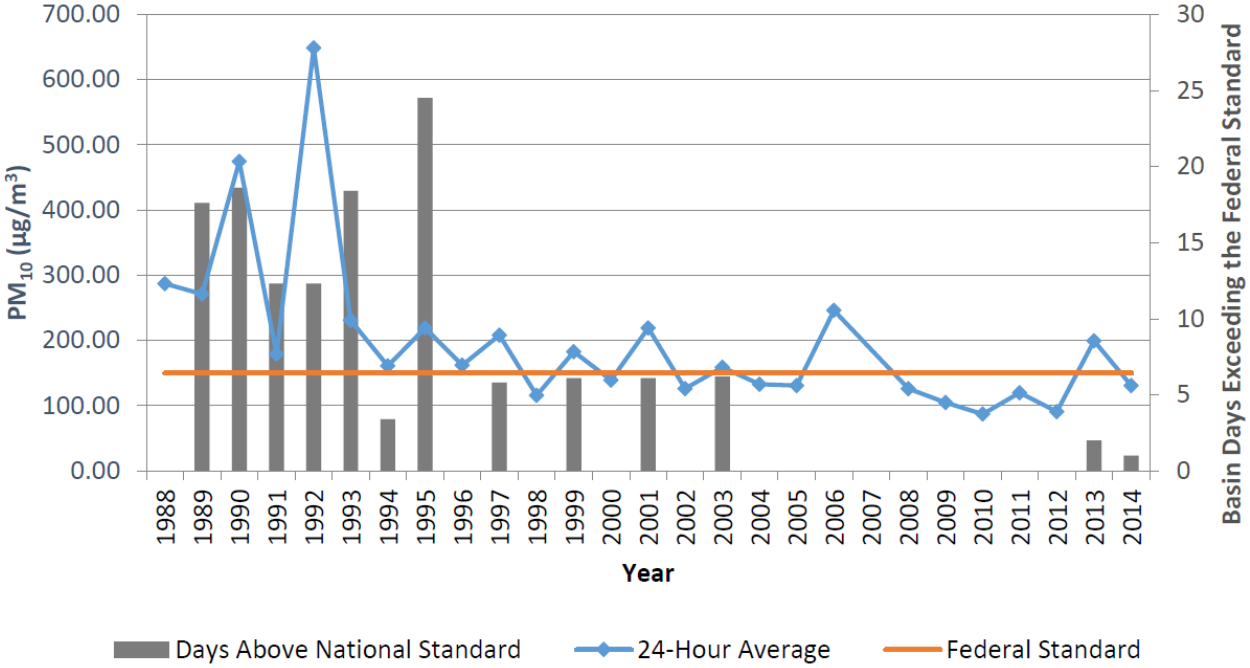
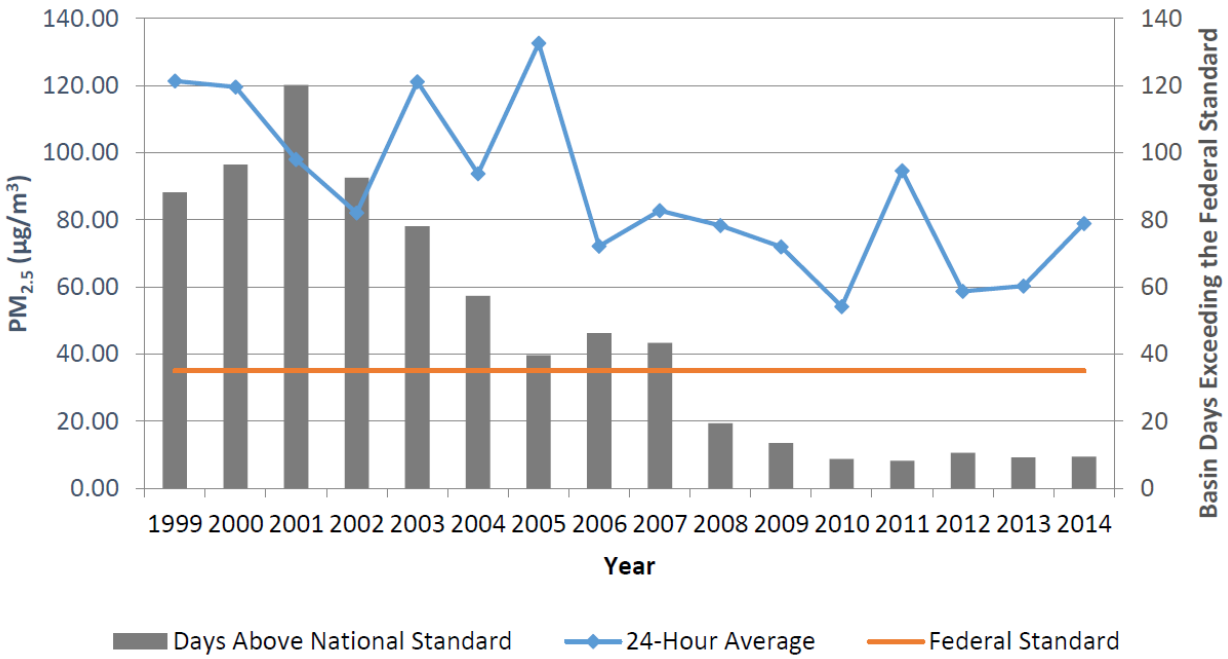


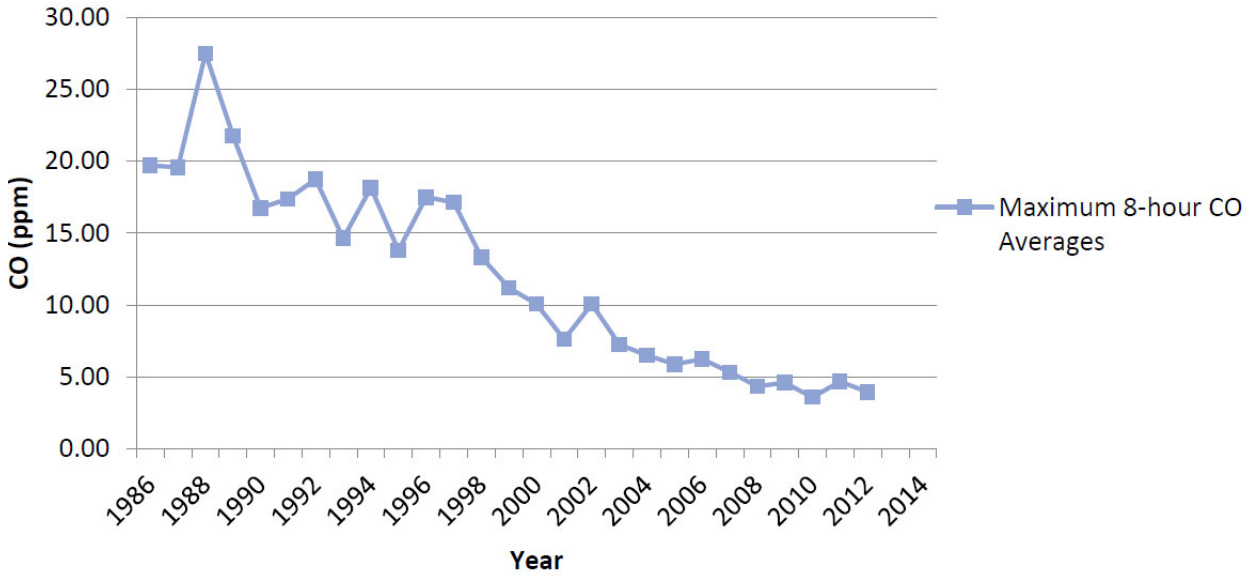
Exhibit 3, *South Coast Air Basin $PM_{2.5}$ Trend*, shows the most recent 24-hour average $PM_{2.5}$ concentrations (national) in the SoCAB from 1999 through 2014. Overall, the annual average concentrations have decreased by almost 52 percent. The calculated number of days above the national standard also decreased, from about 88 days in 1999 to about 9 days in 2014. The SoCAB is currently designated as nonattainment for the State and national $PM_{2.5}$ standards. Measures adopted as part of the upcoming $PM_{2.5}$ SIP, as well as programs to reduce ozone and diesel PM will help in reducing public exposure to $PM_{2.5}$ in this region.

Exhibit 3: South Coast Air Basin $PM_{2.5}$ Trend



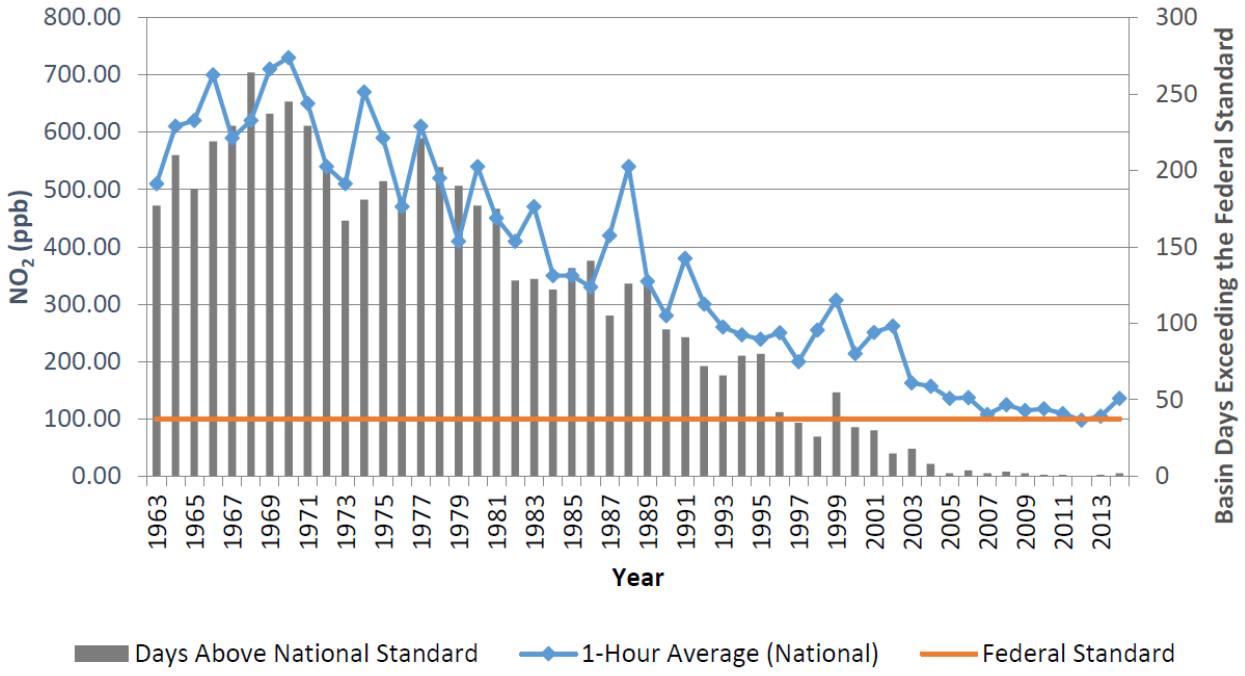
Recent carbon dioxide concentrations in the SoCAB are shown in Exhibit 4, *South Coast Air Basin Carbon Monoxide Trend* (CARB 2018a). Carbon monoxide concentrations in the SoCAB have decreased markedly — a total decrease of more about 80 percent in the peak 8-hour concentration since 1986. The number of exceedance days has also declined. The entire SoCAB is now designated as attainment for both the state and national CO standards. Ongoing reductions from motor vehicle control programs should continue the downward trend in ambient CO concentrations.

Exhibit 4: South Coast Air Basin Carbon Monoxide Trend



Recent NO_2 data for the SoCAB is shown in Exhibit 5, *South Coast Air Basin Nitrogen Dioxide Trend* (CARB 2018a). Over the last 50 years, NO_2 values have decreased significantly; the peak 1-hour average for 2013 was almost 74 percent lower than what it was during 1963. The SoCAB attained the State 1-hour NO_2 standard in 1994, bringing the entire State into attainment. A new state annual average standard of 0.030 parts per million was adopted by the ARB in February 2007 (CARB 2011). The new standard is just barely exceeded in the South Coast. NO_2 is formed from NO_X emissions, which also contribute to ozone. As a result, the majority of the future emission control measures will be implemented as part of the overall ozone control strategy. Many of these control measures will target mobile sources, which account for more than three-quarters of California's NO_X emissions. These measures are expected to bring the South Coast into attainment of the State annual average standard.

Exhibit 5: South Coast Air Basin Nitrogen Dioxide Trend



Toxic Air Contaminants Trends

In 1984, as a result of public concern for exposure to airborne carcinogens, the CARB adopted regulations to reduce the amount of air toxic contaminant emissions resulting from mobile and area sources, such as cars, trucks, stationary products, and consumer products. According to the *Ambient and Emission Trends of Toxic Air Contaminants in California* journal article which was prepared for CARB, results show that between 1990-2012, ambient concentration and emission trends for the seven TACs responsible for most of the known cancer risk associated with airborne exposure in California have declined significantly (Propper 2015). The decline in ambient concentration and emission trends of these TACs are a result of various regulations CARB has implemented to address cancer risk.

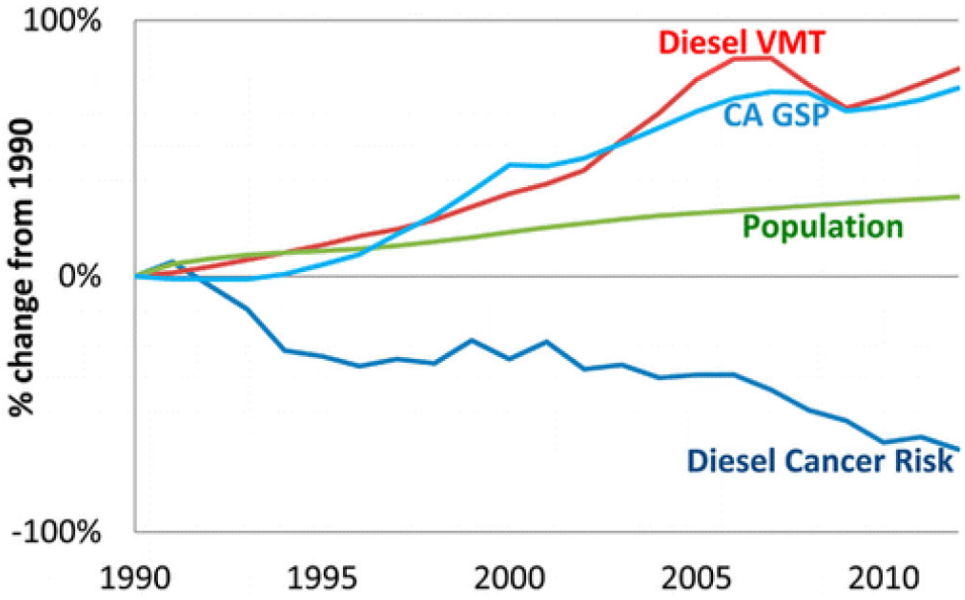
Mobile Source TACs

The CARB introduced two programs that aimed at reducing mobile emissions for light and medium duty vehicles through vehicle emissions controls and cleaner fuel. Since 1996, light-duty vehicles sold in California are equipped with California's second-generation On-Board Diagnostic (OBD-II) system as a result of about half of total car emissions stemming from emissions control device malfunctions. CARB's phase II Reformulated Gasoline (RFG-2) regulation, adopted in 1996, also led to a reduction of mobile source emissions. Through such regulations, benzene levels declined 88% from 1990-2012. 1,3-Butadiene concentrations also declined 85% from 1990-2012 as a result of the motor vehicle regulations (Propper 2015).

In 2000, CARB's Diesel Risk Reduction Plan (DRRP) recommended the replacement and retrofit of diesel-fueled engines and the use of ultra-low-sulfur (<15ppm) diesel fuel. As a result of these measures, DPM concentrations have declined 68%, even though the state's population increased 31% and the amount of diesel vehicles miles traveled increased 81%, as shown in Exhibit 6, *California Population, Gross State Product, Diesel Cancer*

Risk, Diesel Vehicle Miles Traveled. With the implementation of these diesel-related control regulations, ARB expects a DPM decline of 71% for 2000-2020.

Exhibit 6: California Population, Gross State Product, Diesel Cancer Risk, Diesel Vehicle Miles Traveled



Stationary Source TACs

Various regulations led to a decrease in perchloroethylene and hexavalent chromium, with a 92% and 86% decline, respectively. By 1993, several local air districts required dry cleaning businesses to use a carbon absorber and refrigerated condenser, as well as, dry-to-dry machines and closed- looped machines instead of vented transfer machines. Starting in 2003, California provided financial incentives for dry cleaners to use other solvents and soon after, the CARB banned the use of perchloroethylene in automotive products, aerosol coatings, and most consumer products. In 2007, CARB's dry-cleaning regulation was amended to require phase-out of perchloroethylene machines by 2023, which would further reduce emissions to minimal levels (Propper 2015).

Hexavalent chromium emissions began to decline in 1988 with the ARB-regulated regulations contributing to more than 97% emission reduction within four years. The various regulations include prohibiting the use of hexavalent chromium in cooling towers (1989), in motor vehicle and mobile equipment coatings (2001), and in thermal spraying operations (2005). By 2005, hexavalent chromium emissions were 99.97% less than in 1987, far exceeding expectations. In 2006, hexavalent chromium emissions were further reduced with the 2006 ARB regulation requiring add-on air pollution control devices and chemical fume suppressants.

Secondary TACs

Between 1996-2012, ambient concentrations of formaldehyde and acetaldehyde declined 22% and 21%, respectively. The decline in these TACs are attributed from increasingly stringent motor vehicle exhaust emission standards, vehicle fleet turnover, fuel reformulation, and the switch from MTBE (formaldehyde precursor) to ethanol in gasoline (Propper 2015).

As previously discussed, ambient and emissions levels of TACs have reduced significantly from 1990-2012. The overall declining trend in TACs is expected to continue in California from implementation of toxic air controls.

Diesel Regulations

The CARB and the Ports of Los Angeles and Long Beach have adopted several iterations of regulations for diesel trucks that are aimed at reducing diesel particulate matter (DPM). More specifically, the CARB Drayage Truck Regulation (CARB 2017b), the CARB statewide On-road Truck and Bus Regulation (CARB 2017c), and the Ports of Los Angeles and Long Beach "Clean Truck Program" (CTP) require accelerated implementation of "clean trucks" into the statewide truck fleet (Los Angeles 2018). Older more polluting trucks will be replaced with newer, cleaner trucks as a function of these regulatory requirements. Moreover, the average statewide DPM emissions for Heavy Duty Trucks (HHDT), in terms of grams of DPM generated per mile traveled, will dramatically be reduced due to the aforementioned regulatory requirements.

Cancer Risk Trends

Based on information available from CARB, overall cancer risk throughout the SoCAB has had a declining trend since 1990. As previously stated, based on the MATES IV study, the estimated basinwide population-weighted risk decreased by approximately 57 percent since MATES III (SCAQMD 2015). MATES IV modeling predicted an excess cancer risk of 482.86 in one million for the project area.

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8. South Coast Air Quality Management District Amicus Brief for Friant Ranch

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S219783

IN THE SUPREME COURT OF C ALIFORNIA

SIERRA CLUB, REVIVE THE SAN JOAQUIN, and
LEAGUE OF WOMEN VOTERS OF FRESNO,

Plaintiffs and Appellants,

v.

COUNTY OF FRESNO,

Defendant and Respondent,

and,

FRIANT RANCH, L.P.,

Real Party in Interest and Respondent.

SUPREME COURT
FILED

APR 13 2015

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Deputy

After a Published Decision by the Court of Appeal, filed May 27, 2014
Fifth Appellate District Case No. F066798

Appeal from the Superior Court of California, County of Fresno
Case No. 11CECG00726
Honorable Rosendo A. Pena, Jr.

APPLICATION OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT FOR LEAVE TO FILE BRIEF OF *AMICUS CURIAE* IN SUPPORT OF NEITHER PARTY AND *[PROPOSED]* BRIEF OF *AMICUS CURIAE*

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TO THE HONORABLE CHIEF JUSTICE AND JUSTICES OF THE SUPREME COURT:

APPLICATION FOR LEAVE TO FILE *AMICUS CURIAE* BRIEF

Pursuant to Rule 8.520(f) of the California Rules of Court, the South Coast Air Quality Management District (SCAQMD) respectfully requests leave to file the attached *amicus curiae* brief. Because SCAQMD's position differs from that of either party, we request leave to submit this amicus brief in support of neither party.

HOW THIS BRIEF WILL ASSIST THE COURT

SCAQMD's proposed amicus brief takes a position on two of the issues in this case. In both instances, its position differs from that of either party. The issues are:

1) Does the California Environmental Quality Act (CEQA) require an environmental impact report (EIR) to correlate a project's air pollution emissions with specific levels of health impacts?
2) What is the proper standard of review for determining whether an EIR provides sufficient information on the health impacts caused by a project's emission of air pollutants?

This brief will assist the Court by discussing the practical realities of correlating identified air quality impacts with specific health outcomes. In short, CEQA requires agencies to provide detailed information about a project's air quality impacts that is sufficient for the public and decisionmakers to adequately evaluate the project and meaningfully understand its impacts. However, the level of analysis is governed by a rule of reason; CEQA only requires agencies to conduct analysis if it is reasonably feasible to do so.

With regard to health-related air quality impacts, an analysis that correlates a project's air pollution emissions with specific levels of health impacts will be feasible in some cases but not others. Whether it is feasible depends on a variety of factors, including the nature of the project and the nature of the analysis under consideration. The feasibility of analysis may also change over time as air districts and others develop new tools for measuring projects' air quality related health impacts. Because SCAQMD has among the most sophisticated air quality modeling and health impact evaluation capability of any of the air districts in the State, it is uniquely situated to express an opinion on the extent to which the Court should hold that CEQA requires lead agencies to correlate air quality impacts with specific health outcomes.

SCAQMD can also offer a unique perspective on the question of the appropriate standard of review. SCAQMD submits that the proper standard of review for determining whether an EIR is sufficient as an informational document is more nuanced than argued by either party. In our view, this is a mixed question of fact and law. It includes determining whether additional analysis is feasible, which is primarily a factual question that should be reviewed under the substantial evidence standard. However, it also involves determining whether the omission of a particular analysis renders an EIR insufficient to serve CEQA's purpose as a meaningful, informational document. If a lead agency has not determined that a requested analysis is infeasible, it is the court's role to determine whether the EIR nevertheless meets CEQA's purposes, and courts should not defer to the lead agency's conclusions regarding the legal sufficiency of an EIR's analysis. The ultimate question of whether an EIR's analysis is "sufficient" to serve CEQA's informational purposes is predominately a question of law that courts should review de novo.

This brief will explain the rationale for these arguments and may assist the Court in reaching a conclusion that accords proper respect to a lead agency's factual conclusions while maintaining judicial authority over the ultimate question of what level of analysis CEQA requires.

STATEMENT OF INTEREST OF *AMICUS CURIAE*

The SCAQMD is the regional agency primarily responsible for air pollution control in the South Coast Air Basin, which consists of all of Orange County and the non-desert portions of the Los Angeles, Riverside, and San Bernardino Counties. (Health & Saf. Code § 40410; Cal. Code Regs., tit. 17, § 60104.) The SCAQMD participates in the CEQA process in several ways. Sometimes it acts as a lead agency that prepares CEQA documents for projects. Other times it acts as a responsible agency when it has permit authority over some part of a project that is undergoing CEQA review by a different lead agency. Finally, SCAQMD also acts as a commenting agency for CEQA documents that it receives because it is a public agency with jurisdiction by law over natural resources affected by the project.

In all of these capacities, SCAQMD will be affected by the decision in this case. SCAQMD sometimes submits comments requesting that a lead agency perform an additional type of air quality or health impacts analysis. On the other hand, SCAQMD sometimes determines that a particular type of health impact analysis is not feasible or would not produce reliable and informative results. Thus, SCAQMD will be affected by the Court's resolution of the extent to which CEQA requires EIRs to correlate emissions and health impacts, and its resolution of the proper standard of review.

CERTIFICATION REGARDING AUTHORSHIP AND FUNDING

No party or counsel in the pending case authored the proposed amicus curiae brief in whole or in part, or made any monetary contribution intended to fund the preparation or submission of the brief. No person or entity other than the proposed *Amicus Curiae* made any monetary contribution intended to fund the preparation or submission of the brief.

Respectfully submitted,

DATED: April 3, 2015

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BRIEF OF AMICUS CURIAE

SUMMARY OF ARGUMENT

The South Coast Air Quality Management District (SCAQMD) submits that this Court should not try to establish a hard-and-fast rule concerning whether lead agencies are required to correlate emissions of air pollutants with specific health consequences in their environmental impact reports (EIR). The level of detail required in EIRs is governed by a few, core CEQA (California Environmental Quality Act) principles. As this Court has stated, "[a]n EIR must include detail sufficient to enable those who did not participate in its preparation to understand and to consider meaningfully the issues raised by the proposed project." (*Laurel Heights Improvement Assn. v. Regents of the Univ of Cal.* (1988) 47 Cal.3d 376, 405 ["*Laurel Heights I*"]) Accordingly, "an agency must use its best efforts to find out and disclose all that it reasonably can." (*Vineyard Area Citizens for Responsible Growth, Inc. v. City of Rancho Cordova* (2007) 40 Cal.4th 412, 428 (quoting CEQA Guidelines § 15144)[1].). However, "[a]nalysis of environmental effects need not be exhaustive, but will be judged in light of what is reasonably feasible." (*Association of Irritated Residents v. County of Madera* (2003) 107 Cal.App.4th 1383, 1390; CEQA Guidelines §§ 15151, 15204(a).)

With regard to analysis of air quality related health impacts, EIRs must generally quantify a project's pollutant emissions, but in some cases it is not feasible to correlate these emissions to specific, quantifiable health impacts (e.g., premature mortality; hospital admissions). In such cases, a general description of the adverse health impacts resulting from the pollutants at issue may be sufficient. In other cases, due to the magnitude

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[1] The CEQA Guidelines are found at Cal. Code Regs., tit. 14 §§ 15000, *et seq*.

or nature of the pollution emissions, as well as the specificity of the project involved, it may be feasible to quantify health impacts. Or there may be a less exacting, but still meaningful analysis of health impacts that can feasibly be performed. In these instances, agencies should disclose those impacts.

SCAQMD also submits that whether or not an EIR complies with CEQA's informational mandates by providing sufficient, feasible analysis is a mixed question of fact and law. Pertinent here, the question of whether an EIR's discussion of health impacts from air pollution is sufficient to allow the public to understand and consider meaningfully the issues involves two inquiries: (1) Is it feasible to provide the information or analysis that a commenter is requesting or a petitioner is arguing should be required?; and (2) Even if it is feasible, is the agency relying on other policy or legal considerations to justify not preparing the requested analysis? The first question of whether an analysis is feasible is primarily a question of fact that should be judged by the substantial evidence standard. The second inquiry involves evaluating CEQA's information disclosure purposes against the asserted reasons to not perform the requested analysis. For example, an agency might believe that its EIR meets CEQA's informational disclosure standards even without a particular analysis, and therefore choose not to conduct that analysis. SCAQMD submits that this is more of a legal question, which should be reviewed de novo as a question of law.

ARGUMENT

I. RELEVANT FACTUAL AND LEGAL FRAMEWORK.

A. Air Quality Regulatory Background

The South Coast Air Quality Management District (SCAQMD) is one of the local and regional air pollution control districts and air quality

management districts in California. The SCAQMD is the regional air pollution agency for the South Coast Air Basin, which consists of all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. (Health & Saf. Code § 40410, 17 Cal. Code Reg. § 60104.) The SCAQMD also includes the Coachella Valley in Riverside County (Palm Springs area to the Salton Sea). (SCAQMD, *Final 2012 AQMP (Feb. 2013)*, http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan; then follow "chapter 7" hyperlink; pp 7-1, 7-3 (last visited Apr. 1, 2015).) The SCAQMD's jurisdiction includes over 16 million residents and has the worst or nearly the worst air pollution levels in the country for ozone and fine particulate matter. (SCAQMD, *Final 2012 AQMP (Feb. 2013)*, http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan; then follow "Executive Summary" hyperlink p. ES-1 (last visited Apr. 1, 2015).)

Under California law, the local and regional districts are primarily responsible for controlling air pollution from all sources except motor vehicles. (Health & Saf. Code § 40000.) The California Air Resources Board (CARB), part of the California Environmental Protection Agency, is primarily responsible for controlling pollution from motor vehicles. (*Id.*) The air districts must adopt rules to achieve and maintain the state and federal ambient air quality standards within their jurisdictions. (Health & Saf. Code § 40001.)

The federal Clean Air Act (CAA) requires the United States Environmental Protection Agency (EPA) to identify pollutants that are widely distributed and pose a threat to human health, developing a so-called "criteria" document. (42 U.S.C. § 7408; CAA § 108.) These pollutants are frequently called "criteria pollutants." EPA must then establish "national ambient air quality standards" at levels "requisite to protect public health",

allowing "an adequate margin of safety." (42 U.S.C. § 7409; CAA § 109.) EPA has set standards for six identified pollutants: ozone, nitrogen dioxide, sulfur dioxide, carbon monoxide, particulate matter (PM), and lead. (U.S. EPA, National Ambient Air Quality Standards (NAAQS), http://www.epa.gov/air/criteria.html (last updated Oct. 21, 2014).)[2]

Under the Clean Air Act, EPA sets emission standards for motor vehicles and "nonroad engines" (mobile farm and construction equipment, marine vessels, locomotives, aircraft, etc.). (42 U.S.C. §§ 7521, 7547; CAA §§ 202, 213.) California is the only state allowed to establish emission standards for motor vehicles and most nonroad sources; however, it may only do so with EPA's approval. (42 U.S.C. §§ 7543(b), 7543(e); CAA §§ 209(b), 209(c).) Sources such as manufacturing facilities, power plants and refineries that are not mobile are often referred to as "stationary sources." The Clean Air Act charges state and local agencies with the primary responsibility to attain the national ambient air quality standards. (42 U.S.C. § 7401(a)(3); CAA § 101(a)(3).) Each state must adopt and implement a plan including enforceable measures to achieve and maintain the national ambient air quality standards. (42 U.S.C. § 7410; CAA § 110.) The SCAQMD and CARB jointly prepare portion of the plan for the South Coast Air Basin and submit it for approval by EPA. (Health & Saf. Code §§ 40460, et seq.)

The Clean Air Act also requires state and local agencies to adopt a permit program requiring, among other things, that new or modified "major" stationary sources use technology to achieve the "lowest achievable emission rate," and to control minor stationary sources as

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[2] Particulate matter (PM) is further divided into two categories: fine particulate or $PM_{2.5}$ (particles with a diameter of less than or equal to 2.5 microns) and coarse particulate (PM_{10}) (particles with a diameter of 10 microns or less). (U.S. EPA, Particulate Matter (PM), http://www.epa.gov/airquality/particlepollution/ (last visited Apr. 1, 2015).)

needed to help attain the standards. (42 U.S.C. §§ 7502(c)(5), 7503(a)(2), 7410(a)(2)(C); CAA §§ 172(c)(5), 173(a)(2), 110(a)(2)(C).) The air districts implement these permit programs in California. (Health & Saf. Code §§ 42300, et seq.)

The Clean Air Act also sets out a regulatory structure for over 100 so-called "hazardous air pollutants" calling for EPA to establish "maximum achievable control technology" (MACT) for sources of these pollutants. (42 U.S.C. § 7412(d)(2); CAA § 112(d)(2).) California refers to these pollutants as "toxic air contaminants" (TACs) which are subject to two state-required programs. The first program requires "air toxics control measures" for specific categories of sources. (Health & Saf. Code § 39666.) The other program requires larger stationary sources and sources identified by air districts to prepare "health risk assessments" for impacts of toxic air contaminants. (Health & Saf. Code §§ 44320(b), 44322, 44360.) If the health risk exceeds levels identified by the district as "significant," the facility must implement a "risk reduction plan" to bring its risk levels below "significant" levels. Air districts may adopt additional more stringent requirements than those required by state law, including requirements for toxic air contaminants. (Health & Saf. Code § 41508; *Western Oil & Gas Assn. v. Monterey Bay Unified APCD* (1989) 49 Cal.3d 408, 414.) For example, SCAQMD has adopted a rule requiring new or modified sources to keep their risks below specified levels and use best available control technology (BACT) for toxics. (SCAQMD, *Rule 1401-New Source Review of Toxic Air Contaminants*, http://www.aqmd.gov/home/regulations/rules/scaqmd-rule-book/regulation-xiv; then follow "Rule 1401" hyperlink (last visited Apr. 1, 2015).)

B. The SCAQMD's Role Under CEQA

The California Environmental Quality Act (CEQA) requires public agencies to perform an environmental review and appropriate analysis for projects that they implement or approve. (Pub. Resources Code § 21080(a).) The agency with primary approval authority for a particular project is generally the "lead agency" that prepares the appropriate CEQA document. (CEQA Guidelines §§ 15050, 15051.) Other agencies having a subsequent approval authority over all or part of a project are called "responsible" agencies that must determine whether the CEQA document is adequate for their use. (CEQA Guidelines §§ 15096(c), 15381.) Lead agencies must also consult with and circulate their environmental impact reports to "trustee agencies" and agencies "with jurisdiction by law" including "authority over resources which may be affected by the project." (Pub. Resources Code §§ 21104(a), 21153; CEQA Guidelines §§ 15086(a)(3), 15073(c).) The SCAQMD has a role in all these aspects of CEQA.

Fulfilling its responsibilities to implement its air quality plan and adopt rules to attain the national ambient air quality standards, SCAQMD adopts a dozen or more rules each year to require pollution reductions from a wide variety of sources. The SCAQMD staff evaluates each rule for any adverse environmental impact and prepares the appropriate CEQA document. Although most rules reduce air emissions, they may have secondary environmental impacts such as use of water or energy or disposal of waste—e.g., spent catalyst from control equipment.[3]

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[3] The SCAQMD's CEQA program for its rules is a "Certified Regulatory Program" under which it prepares a "functionally equivalent" document in lieu of a negative declaration or EIR. (Pub. Resources Code § 21080.5, CEQA Guidelines § 15251(l).)

The SCAQMD also approves a large number of permits every year to construct new, modified, or replacement facilities that emit regulated air pollutants. The majority of these air pollutant sources have already been included in an earlier CEQA evaluation for a larger project, are currently being evaluated by a local government as lead agency, or qualify for an exemption. However, the SCAQMD sometimes acts as lead agency for major projects where the local government does not have a discretionary approval. In such cases, SCAQMD prepares and certifies a negative declaration or environmental impact report (EIR) as appropriate.[4] SCAQMD evaluates perhaps a dozen such permit projects under CEQA each year. SCAQMD is often also a "responsible agency" for many projects since it must issue a permit for part of the projects (e.g., a boiler used to provide heat in a commercial building). For permit projects evaluated by another lead agency under CEQA, SCAQMD has the right to determine that the CEQA document is inadequate for its purposes as a responsible agency, but it may not do so because its permit program already requires all permitted sources to use the best available air pollution control technology. (SCAQMD, *Rule 1303(a)(1) – Requirements*, http://www.aqmd.gov/home/regulations/rules/scaqmd-rule-book/regulation-xiii; then follow "Rule 1303" hyperlink (last visited Apr. 1, 2015).)

Finally, SCAQMD receives as many as 60 or more CEQA documents each month (around 500 per year) in its role as commenting agency or an agency with "jurisdiction by law" over air quality—a natural resource affected by the project. (Pub. Resources Code §§ 21104(a), 21153; CEQA Guidelines § 15366(a)(3).) The SCAQMD staff provides comments on as many as 25 or 30 such documents each month.

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[4] The SCAQMD's permit projects are not included in its Certified Regulatory Program, and are evaluated under the traditional local government CEQA analysis. (Pub. Resources Code §§ 21150-21154.)

(SCAQMD Governing Board Agenda, Apr. 3, 2015, Agenda Item 16, Attachment A, http://www.aqmd.gov/home/library/meeting-agendas-minutes/agenda?title=governing-board-meeting-agenda-april-3-2015; then follow "16. Lead Agency Projects and Environmental Documents Received by SCAQMD" hyperlink (last visited Apr. 1, 2015).) Of course, SCAQMD focuses its commenting efforts on the more significant projects.

Typically, SCAQMD comments on the adequacy of air quality analysis, appropriateness of assumptions and methodology, and completeness of the recommended air quality mitigation measures. Staff may comment on the need to prepare a health risk assessment detailing the projected cancer and noncancer risks from toxic air contaminants resulting from the project, particularly the impacts of diesel particulate matter, which CARB has identified as a toxic air contaminant based on its carcinogenic effects. (California Air Resources Board, Resolution 98-35, Aug. 27, 1998, http://www.arb.ca.gov/regact/diesltac/diesltac.htm; then follow Resolution 98-35 hyperlink (last visited Apr. 1, 2015).) Because SCAQMD already requires new or modified stationary sources of toxic air contaminants to use the best available control technology for toxics and to keep their risks below specified levels, (SCAQMD Rule 1401, supra, note 15), the greatest opportunity to further mitigate toxic impacts through the CEQA process is by reducing emissions—particularly diesel emissions—from vehicles.

II. THIS COURT SHOULD NOT SET A HARD-AND-FAST RULE CONCERNING THE EXTENT TO WHICH AN EIR MUST CORRELATE A PROJECT'S EMISSION OF POLLUTANTS WITH RESULTING HEALTH IMPACTS.

Numerous cases hold that courts do not review the correctness of an EIR's conclusions but rather its sufficiency as an informative document. (*Laurel Heights 1*, *supra*, 47 Cal.3d at p. 392; *Citizens of Goleta Valley v.*

Bd. of Supervisors (1990) 52 Cal.3d 553, 569; *Bakersfield Citizens for Local Control v. City of Bakersfield* (2004) 124 Cal.App.4th 1184, 1197.)

As stated by the Court of Appeal in this case, where an EIR has addressed a topic, but the petitioner claims that the information provided about that topic is insufficient, courts must "draw[] a line that divides *sufficient* discussions from those that are *insufficient*." (*Sierra Club v. County of Fresno* (2014) 226 Cal.App.4th 704 (superseded by grant of review) 172 Cal.Rptr.3d 271, 290.) The Court of Appeal readily admitted that "[t]he terms themselves – sufficient and insufficient – provide little, if any, guidance as to where the line should be drawn. They are simply labels applied once the court has completed its analysis." (*Id.*)

The CEQA Guidelines, however, provide guidance regarding what constitutes a sufficient discussion of impacts. Section 15151 states that "the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible." Case law reflects this: "Analysis of environmental effects need not be exhaustive, but will be judged in light of what was reasonably feasible." (*Association of Irritated Residents v. County of Madera, supra,* 107 Cal.App.4th at p. 1390; see also CEQA Guidelines § 15204(a).)

Applying this test, this Court cannot realistically establish a hard-and-fast rule that an analysis correlating air pollution impacts of a project to quantified resulting health impacts is always required, or indeed that it is never required. Simply put, in some cases such an analysis will be "feasible"; in some cases it will not.

For example, air pollution control districts often require a proposed new source of toxic air contaminants to prepare a "health risk assessment" before issuing a permit to construct. District rules often limit the allowable cancer risk the new source may cause to the "maximally exposed individual" (worker and residence exposures). (*See, e.g.*, SCAQMD Rule 1401(c)(8); 1401(d)(1), *supra* note 15.) In order to perform this analysis, it

is necessary to have data regarding the sources and types of air toxic contaminants, location of emission points, velocity of emissions, the meteorology and topography of the area, and the location of receptors (worker and residence). (SCAQMD, *Supplemental Guidelines for Preparing Risk Assessments for the Air Toxics "Hot Spots" Information and Assessment Act (AB2588), pp. 11-16*; (last visited Apr. 1, 2015) http://www.aqmd.gov/home/library/documents-support-material; "Guidelines" hyperlink; AB2588; then follow AB2588 Risk Assessment Guidelines hyperlink.)

Thus, it is feasible to determine the health risk posed by a new gas station locating at an intersection in a mixed use area, where receptor locations are known. On the other hand, it may not be feasible to perform a health risk assessment for airborne toxics that will be emitted by a generic industrial building that was built on "speculation" (i.e., without knowing the future tenant(s)). Even where a health risk assessment can be prepared, however, the resulting maximum health risk value is only a calculation of risk—it does not necessarily mean anyone will contract cancer as a result of the project.

In order to find the "cancer burden" or expected additional cases of cancer resulting from the project, it is also necessary to know the numbers and location of individuals living within the "zone of impact" of the project: i.e., those living in areas where the projected cancer risk from the project exceeds one in a million. (SCAQMD, Health Risk Assessment Summary form, http://www.aqmd.gov/home/forms ; filter by "AB2588" category; then "Health Risk Assessment" hyperlink (last visited Apr. 1, 2015).) The affected population is divided into bands of those exposed to at least 1 in a million risk, those exposed to at least 10 in a million risk, etc. up to those exposed at the highest levels. (*Id.*) This data allows agencies to calculate an approximate number of additional cancer cases expected from

the project. However, it is not possible to predict which particular individuals will be affected.

For the so-called criteria pollutants[5], such as ozone, it may be more difficult to quantify health impacts. Ozone is formed in the atmosphere from the chemical reaction of the nitrogen oxides (NO_x) and volatile organic compounds (VOC) in the presence of sunlight. (U.S. EPA, Ground Level Ozone, http://www.epa.gov/airquality/ozonepollution/ (last updated Mar. 25, 2015).) It takes time and the influence of meteorological conditions for these reactions to occur, so ozone may be formed at a distance downwind from the sources. (U.S. EPA, *Guideline on Ozone Monitoring Site Selection* (Aug. 1998) EPA-454/R-98-002 § 5.1.2, http://www.epa.gov/ttnamti1/archive/cpreldoc.html (last visited Apr. 1, 2015).) NO_x and VOC are known as "precursors" of ozone.

Scientifically, health effects from ozone are correlated with increases in the ambient level of ozone in the air a person breathes. (U.S. EPA, *Health Effects of Ozone in the General Population,* Figure 9, http://www.epa.gov/apti/ozonehealth/population.html#levels (last visited Apr. 1, 2015).) However, it takes a large amount of additional precursor emissions to cause a modeled increase in ambient ozone levels over an entire region. For example, the SCAQMD's 2012 AQMP showed that reducing NO_x by 432 tons per day (157,680 tons/year) and reducing VOC by 187 tons per day (68,255 tons/year) would reduce ozone levels at the SCAQMD's monitor site with the highest levels by only 9 parts per billion. (South Coast Air Quality Management District, *Final 2012 AQMP (February 2013)*, http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan; then follow "Appendix V: Modeling & Attainment Demonstrations" hyperlink,

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[5] See discussion of types of pollutants, supra, Part I.A.

pp. v-4-2, v-7-4, v-7-24.) SCAQMD staff does not currently know of a way to accurately quantify ozone-related health impacts caused by NO_x or VOC emissions from relatively small projects.

On the other hand, this type of analysis may be feasible for projects on a regional scale with very high emissions of NO_x and VOCs, where impacts are regional. For example, in 2011 the SCAQMD performed a health impact analysis in its CEQA document for proposed Rule 1315, which authorized various newly-permitted sources to use offsets from the districts "internal bank" of emission reductions. This CEQA analysis accounted for essentially *all* the increases in emissions due to new or modified sources in the District between 2010 and 2030.[6] The SCAQMD was able to correlate this very large emissions increase (e.g., 6,620 pounds per day NO_x (1,208 tons per year), 89,180 pounds per day VOC (16,275 tons per year)) to expected health outcomes from ozone and particulate matter (e.g., 20 premature deaths per year and 89,947 school absences in the year 2030 due to ozone).[7] (SCAQMD Governing Board Agenda, February 4, 2011, Agenda Item 26, *Assessment for: Re-adoption of Proposed Rule 1315 – Federal New Source Review Tracking System* (see hyperlink in fn 6) at p. 4.1-35, Table 4.1-29.)

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[6] (SCAQMD Governing Board Agenda, February 4, 2011, Agenda Item 26, Attachment G, *Assessment for: Re-adoption of Proposed Rule 1315 – Federal New Source Review Tracking System, Vol. 1, p.4.0-6*, http://www.aqmd.gov/home/library/meeting-agendas-minutes/agenda?title=governing-board-meeting-agenda-february-4-2011; the follow "26. Adopt Proposed Rule 1315 – Federal New Source Review Tracking System" (last visited April 1, 2015).)

[7] The SCAQMD was able to establish the location of future NO_x and VOC emissions by assuming that new projects would be built in the same locations and proportions as existing stationary sources. This CEQA document was upheld by the Los Angeles County Superior Court in *Natural Res. Def. Council v SCAQMD*, Los Angeles Superior Court No. BS110792).

However, a project emitting only 10 tons per year of NO_x or VOC is small enough that its regional impact on ambient ozone levels may not be detected in the regional air quality models that are currently used to determine ozone levels. Thus, in this case it would not be feasible to directly correlate project emissions of VOC or NO_x with specific health impacts from ozone. This is in part because ozone formation is not linearly related to emissions. Ozone impacts vary depending on the location of the emissions, the location of other precursor emissions, meteorology and seasonal impacts, and because ozone is formed some time later and downwind from the actual emission. (EPA Guideline on Ozone Monitoring Site Selection (Aug. 1998) EPA-454/R-98-002, § 5.1.2; https://www.epa.gov/ttnamti1/archive/cpreldoc.html; then search "Guideline on Ozone Monitoring Site Selection" click on pdf) (last viewed Apr. 1, 2015).)

SCAQMD has set its CEQA "significance" threshold for NO_x and VOC at 10 tons per year (expressed as 55 lb/day). (SCAQMD, *Air Quality Analysis Handbook*, http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook; then follow "SCAQMD Air Quality Significance Thresholds" hyperlink (last visited Apr. 1, 2015).) This is because the federal Clean Air Act defines a "major" stationary source for "extreme" ozone nonattainment areas such as SCAQMD as one emitting 10 tons/year. (42 U.S.C. §§ 7511a(e), 7511a(f); CAA §§ 182(e), 182(f).) Under the Clean Air Act, such sources are subject to enhanced control requirements (42 U.S.C. §§ 7502(c)(5), 7503; CAA §§ 172(c)(5), 173), so SCAQMD decided this was an appropriate threshold for making a CEQA "significance" finding and requiring feasible mitigation. Essentially, SCAQMD takes the position that a source that emits 10 tons/year of NO_x or VOC would contribute cumulatively to ozone formation. Therefore, lead agencies that use SCAQMD's thresholds of significance may determine

that many projects have "significant" air quality impacts and must apply all feasible mitigation measures, yet will not be able to precisely correlate the project to quantifiable health impacts, unless the emissions are sufficiently high to use a regional modeling program.

In the case of particulate matter ($PM_{2.5}$)[8], another "criteria" pollutant, SCAQMD staff is aware of two possible methods of analysis. SCAQMD used regional modeling to predict expected health impacts from its proposed Rule 1315, as mentioned above. Also, the California Air Resources Board (CARB) has developed a methodology that can predict expected mortality (premature deaths) from large amounts of $PM_{2.5}$. (California Air Resources Board, *Health Impacts Analysis: PM Premature Death Relationship*, http://www.arb.ca.gov/research/health/pm-mort/pm-mort_arch.htm (last reviewed Jan. 19, 2012).) SCAQMD used the CARB methodology to predict impacts from three very large power plants (e.g., 731-1837 lbs/day). (Final Environmental Assessment for Rule 1315, *supra*, pp 4.0-12, 4.1-13, 4.1-37 (e.g., 125 premature deaths in the entire SCAQMD in 2030), 4.1-39 (0.05 to 1.77 annual premature deaths from power plants.) Again, this project involved large amounts of additional $PM_{2.5}$ in the District, up to 2.82 tons/day (5,650 lbs/day of $PM_{2.5}$, or, or 1029 tons/year. (*Id.* at table 4.1-4, p. 4.1-10.)

However, the primary author of the CARB methodology has reported that this $PM_{2.5}$ health impact methodology is not suited for small projects and may yield unreliable results due to various uncertainties.[9] (SCAQMD, *Final Subsequent Mitigated Negative Declaration for: Warren*

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[8] SCAQMD has not attained the latest annual or 24-hour national ambient air quality standards for "$PM_{2.5}$" or particulate matter less than 2.5 microns in diameter.

[9] Among these uncertainties are the representativeness of the population used in the methodology, and the specific source of PM and the corresponding health impacts. (*Id.* at p. 2-24.)

E&P, Inc. WTU Central Facility, New Equipment Project (certified July 19, 2011), http://www.aqmd.gov/home/library/documents-support-material/lead-agency-permit-projects/permit-project-documents---year-2011; then follow "Final Subsequent Mitigated Negative Declaration for Warren E&P Inc. WTU Central Facility, New Equipment Project" hyperlink, pp. 2-22, 2-23 (last visited Apr. 1, 2015).) Therefore, when SCAQMD prepared a CEQA document for the expansion of an existing oil production facility, with very small $PM_{2.5}$ increases (3.8 lb/day) and a very small affected population, staff elected not to use the CARB methodology for using estimated $PM_{2.5}$ emissions to derive a projected premature mortality number and explained why it would be inappropriate to do so. (*Id.* at pp 2-22 to 2-24.) SCAQMD staff concluded that use of this methodology for such a small source could result in unreliable findings and would not provide meaningful information. (*Id.* at pp. 2-23, 2-25.) This CEQA document was not challenged in court.

In the above case, while it may have been technically possible to plug the data into the methodology, the results would not have been reliable or meaningful. SCAQMD believes that an agency should not be required to perform analyses that do not produce reliable or meaningful results. This Court has already held that an agency may decline to use even the "normal" "existing conditions" CEQA baseline where to do so would be misleading or without informational value. (*Neighbors for Smart Rail v. Exposition Metro Line* (2013) 57 Cal.4th 439, 448, 457.) The same should be true for a decision that a particular study or analysis would not provide reliable or meaningful results.[10]

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[10] Whether a particular study would result in "informational value" is a part of deciding whether it is "feasible." CEQA defines "feasible" as "capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, social, and

Therefore, it is not possible to set a hard-and-fast rule on whether a correlation of air quality impacts with specific quantifiable health impacts is required in all cases. Instead, the result turns on whether such an analysis is reasonably feasible in the particular case.[11] Moreover, what is reasonably feasible may change over time as scientists and regulatory agencies continually seek to improve their ability to predict health impacts. For example, CARB staff has been directed by its Governing Board to reassess and improve the methodology for estimating premature deaths. (California Air Resources Board, *Health Impacts Analysis: PM Mortality Relationship*, http://www.arb.ca.gov/research/health/pm-mort/pm-mort.htm (last reviewed Dec. 29, 2010).) This factor also counsels against setting any hard-and-fast rule in this case.

III. THE QUESTION OF WHETHER AN EIR CONTAINS SUFFICIENT ANALYSIS TO MEET CEQA'S REQUIREMENTS IS A MIXED QUESTION OF FACT AND LAW GOVERNED BY TWO DIFFERENT STANDARDS OF REVIEW.

A. Standard of Review for Feasibility Determination and Sufficiency as an Informative Document

A second issue in this case is whether courts should review an EIR's informational sufficiency under the "substantial evidence" test as argued by Friant Ranch or the "independent judgment" test as argued by Sierra Club.

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technological factors." (Pub. Resources Code § 21061.1.) A study cannot be "accomplished in a *successful* manner" if it produces unreliable or misleading results.

[11] In this case, the lead agency did not have an opportunity to determine whether the requested analysis was feasible because the comment was non-specific. Therefore, SCAQMD suggests that this Court, after resolving the legal issues in the case, direct the Court of Appeal to remand the case to the lead agency for a determination of whether the requested analysis is feasible. Because Fresno County, the lead agency, did not seek review in this Court, it seems likely that the County has concluded that at least some level of correlation of air pollution with health impacts is feasible.

As this Court has explained, "a reviewing court must adjust its scrutiny to the nature of the alleged defect, depending on whether the claim is predominantly one of improper procedure or a dispute over the facts." (*Vineyard Area Citizens v. City of Rancho Cordova, supra,* 40 Cal.4th at 435.) For questions regarding compliance with proper procedure or other legal questions, courts review an agency's action de novo under the "independent judgment" test. (*Id.*) On the other hand, courts review factual disputes only for substantial evidence, thereby "accord[ing] greater deference to the agency's substantive factual conclusions." (*Id.*)

Here, Friant Ranch and Sierra Club agree that the case involves the question of whether an EIR includes sufficient information regarding a project's impacts. However, they disagree on the proper standard of review for answering this question: Sierra Club contends that courts use the independent judgment standard to determine whether an EIR's analysis is sufficient to meet CEQA's informational purposes,[12] while Friant Ranch contends that the substantial evidence standard applies to this question.

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[12] Sierra Club acknowledges that courts use the substantial evidence standard when reviewing predicate factual issues, but argues that courts ultimately decide as a matter of law what CEQA requires. (Answering Brief, pp. 14, 23.)

SCAQMD submits that the issue is more nuanced than either party contends. We submit that, whether a CEQA document includes sufficient analysis to satisfy CEQA's informational mandates is a mixed question of fact and law,[13] containing two levels of inquiry that should be judged by different standards.[14]

The state CEQA Guidelines set forth standards for the adequacy of environmental analysis. Guidelines Section 15151 states:

> An EIR should be prepared with a sufficient degree of analysis to provide decision makers with information which enables them to make a decision which intelligently takes account of environmental consequences. An evaluation of the environmental effects of a proposed project need not be exhaustive, but the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible. Disagreement among experts does not make an EIR inadequate, but the EIR should summarize the main points of disagreement among the experts. The courts have looked not for perfection, but for adequacy, completeness, and a good-faith effort at full disclosure.

In this case, the basic question is whether the underlying analysis of air quality impacts made the EIR "sufficient" as an informative document. However, whether the EIR's analysis was sufficient is judged in light of what was reasonably feasible. This represents a mixed question of fact and law that is governed by two different standards of review.

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[13] Friant Ranch actually states that the claim that an EIR lacks sufficient relevant information is, "most properly thought of as raising mixed questions of fact and law." (Opening Brief, p. 27.) However, the remainder of its argument claims that the court should apply the substantial evidence standard of review to all aspects of the issue.

[14] Mixed questions of fact and law issues may implicate predominantly factual subordinate questions that are reviewed under the substantial evidence test even though the ultimate question may be reviewed by the independent judgment test. *Crocker National Bank v. City and County of San Francisco* (1989) 49 Cal.3d 881, 888-889.

SCAQMD submits that an EIR's sufficiency as an informational document is ultimately a legal question that courts should determine using their independent judgment. This Court's language in *Laurel Heights I* supports this position. As this Court explained: "The court does not pass upon the correctness of the EIR's environmental conclusions, but only upon its *sufficiency as an informative document*." (*Laurel Heights I, supra*, 47 Cal.3d at 392-393) (emphasis added.) As described above, the Court in *Vineyard Area Citizens v. City of Rancho Cordova, supra,* 40 Cal.4th at 431, also used its independent judgment to determine what level of analysis CEQA requires for water supply impacts. The Court did not defer to the lead agency's opinion regarding the law's requirements; rather, it determined for itself what level of analysis was necessary to meet "[t]he law's informational demands." (*Id.* at p. 432.) Further, existing case law also holds that where an agency fails to comply with CEQA's information disclosure requirements, the agency has "failed to proceed in the manner required by law." (*Save Our Peninsula Comm. v. Monterey County Bd. of Supervisors* (2001) 87 Cal.App.4th 99, 118.)

However, whether an EIR satisfies CEQA's requirements depends in part on whether it was reasonably feasible for an agency to conduct additional or more thorough analysis. EIRs must contain "a detailed statement" of a project's impacts (Pub. Res. Code § 21061), and an agency must "use its best efforts to find out and disclose all that it reasonably can." (CEQA Guidelines § 15144.) Nevertheless, "the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible." (CEQA Guidelines § 15151.)

SCAQMD submits that the question of whether additional analysis or a particular study suggested by a commenter is "feasible" is generally a question of fact. Courts have already held that whether a particular alternative is "feasible" is reviewed by the substantial evidence test.

(*Uphold Our Heritage v. Town of Woodside* (2007) 147 Cal.App.4th 587, 598-99; *Center for Biological Diversity v. County of San Bernardino* (2010) 185 Cal.App.4th 866, 883.) Thus, if a lead agency determines that a particular study or analysis is infeasible, that decision should generally be judged by the substantial evidence standard. However, SCAQMD urges this Court to hold that lead agencies must explain the basis of any determination that a particular analysis is infeasible in the EIR itself. An EIR must discuss information, including issues related to the feasibility of particular analyses "in sufficient detail to enable meaningful participation and criticism by the public. '[W]hatever is required to be considered in an EIR must be in that formal report; what any official might have known from other writings or oral presentations cannot supply what is lacking in the report.'" (*Laurel Heights I*, *supra*, 47 Cal.3d at p. 405 (quoting *Santiago County Water District v. County of Orange* (1981) 118 Cal.App.3d 818, 831) (discussing analysis of alternatives).) The evidence on which the determination is based should also be summarized in the EIR itself, with appropriate citations to reference materials if necessary. Otherwise commenting agencies such as SCAQMD would be forced to guess where the lead agency's evidence might be located, thus thwarting effective public participation.

Moreover, if a lead agency determines that a particular study or analysis would not result in reliable or useful information and for that reason is not feasible, that determination should be judged by the substantial evidence test. (See *Neighbors for Smart Rail v. Exposition Metro Line Construction Authority*, *supra*, 57 Cal.4th 439, 448, 457:

whether "existing conditions" baseline would be misleading or uninformative judged by substantial evidence standard.[15])

If the lead agency's determination that a particular analysis or study is not feasible is supported by substantial evidence, then the agency has not violated CEQA's information disclosure provisions, since it would be infeasible to provide additional information. This Court's decisions provide precedent for such a result. For example, this Court determined that the issue of whether the EIR should have included a more detailed discussion of future herbicide use was resolved because substantial evidence supported the agency's finding that "the precise parameters of future herbicide use could not be predicted." *Ebbetts Pass Forest Watch v. California Dept. of Forestry & Fire Protection* (2008) 43 Cal.4th 936, 955.

Of course, SCAQMD expects that courts will continue to hold lead agencies to their obligations to consult with, and not to ignore or misrepresent, the views of sister agencies having special expertise in the area of air quality. (*Berkeley Keep Jets Over the Bay v. Board of Port Commissioners* (2007) 91 Cal.App.4th 1344, 1364 n.11.) In some cases, information provided by such expert agencies may establish that the purported evidence relied on by the lead agency is not in fact "substantial". (*Id.* at pp. 1369-1371.)

In sum, courts retain ultimate responsibility to determine what CEQA requires. However, the law does not require exhaustive analysis, but only what is reasonably feasible. Agencies deserve deference for their factual determinations regarding what type of analysis is reasonably feasible. On the other hand, if a commenter requests more information, and the lead agency declines to provide it but does *not* determine that the

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[15] The substantial evidence standard recognizes that the courts "have neither the resources nor the scientific expertise" to weigh conflicting evidence on technical issues. (*Laurel Heights I, supra,* 47 Cal.3d 376, 393.)

requested study or analysis would be infeasible, misleading or uninformative, the question becomes whether the omission of that analysis renders the EIR inadequate to satisfy CEQA's informational purposes. (*Id.* at pp. 1370-71.) Again, this is predominantly a question of law and should be judged by the de novo or independent judgment standard of review. Of course, this Court has recognized that a "project opponent or reviewing court can always imagine some additional study or analysis that might provide helpful information. It is not for them to design the EIR. That further study...might be helpful does not make it necessary." (*Laurel Heights I, supra,* 47 Cal.3d 376, 415 – see also CEQA Guidelines § 15204(a) [CEQA "does not require a lead agency to conduct every test. . . recommended or demanded by commenters."].) Courts, then, must adjudicate whether an omission of particular information renders an EIR inadequate to serve CEQA's informational purposes.[16]

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[16] We recognize that there is case law stating that the substantial evidence standard applies to "challenges to the scope of an EIR's analysis of a topic" as well as the methodology used and the accuracy of the data relied on in the document "because these types of challenges involve factual questions." (*Bakersfield Citizens for Local Control v. City of Bakersfield*, *supra*, 124 Cal.App.4th 1184, 1198, and cases relied on therein.) However, we interpret this language to refer to situations where the question of the scope of the analysis really is factual—that is, where it involves whether further analysis is feasible, as discussed above. This interpretation is supported by the fact that the *Bakersfield* court expressly rejected an argument that a claimed "omission of information from the EIR should be treated as inquiries whether there is substantial evidence supporting the decision approving the project. " *Bakersfield, supra,* 124 Cal.App.4th at p. 1208. And the *Bakersfield* court ultimately decided that the lead agency must analyze the connection between the identified air pollution impacts and resulting health impacts, even though the EIR already included some discussion of air-pollution-related respiratory illnesses. *Bakersfield, supra,* 124 Cal.App.4th at p. 1220. Therefore, the court must not have interpreted this question as one of the "scope of the analysis" to be judged by the substantial evidence standard.

B. Friant Ranch's Rationale for Rejecting the Independent Judgment Standard of Review is Unsupported by Case Law.

In its brief, Friant Ranch makes a distinction between cases where a required CEQA topic is not discussed at all (to be reviewed by independent judgment as a failure to proceed in the manner required by law) and cases where a topic is discussed, but the commenter claims the information provided is insufficient (to be judged by the substantial evidence test). (Opening Brief, pp. 13-17.) The Court of Appeal recognized these two types of cases, but concluded that both raised questions of law. (*Sierra Club v. County of Fresno* (2014) 226 Cal.App.4th 704 (superseded by grant of review) 172 Cal.Rptr.3d 271, 290.) We believe the distinction drawn by Friant Ranch is unduly narrow, and inconsistent with cases which have concluded that CEQA documents are insufficient. In many instances, CEQA's requirements are stated broadly, and the courts must interpret the law to determine what level of analysis satisfies CEQA's mandate for providing meaningful information, even though the EIR discusses the issue to some extent.

For example, the CEQA Guidelines require discussion of the existing environmental baseline. In *County of Amador v. El Dorado County Water Agency* (1999) 76 Cal.App.4th 931, 954-955, the lead agency had discussed the environmental baseline by describing historic month-end water levels in the affected lakes. However, the court held that this was not an adequate baseline discussion because it failed to discuss the timing and amounts of past actual water releases, to allow comparison with the proposed project. The court evidently applied the independent judgment test to its decision, even though the agency discussed the issue to some extent.

Likewise, in *Vineyard Area Citizens* (2007) 40 Cal.4th 412, this Court addressed the question of whether an EIR's analysis of water supply impacts complied with CEQA. The parties agreed that the EIR was required to analyze the effects of providing water to the development project, "and that in order to do so the EIR had, in some manner, to identify the planned sources of that water." (*Vineyard Area Citizens, supra,* at p. 428.) However, the parties disagreed as to the level of detail required for this analysis and "what level of uncertainty regarding the availability of water supplies can be tolerated in an EIR . . . ." (*Id.*) In other words, the EIR had analyzed water supply impacts for the project, but the petitioner claimed that the analysis was insufficient.

This Court noted that neither CEQA's statutory language or the CEQA Guidelines specifically addressed the question of how precisely an EIR must discuss water supply impacts. (*Id.*) However, it explained that CEQA "states that '[w]hile foreseeing the unforeseeable is not possible, an agency must use its best efforts to find out and disclose all that it reasonably can.'" (*Id.*, [Guidelines § 15144].) The Court used this general principle, along with prior precedent, to elucidate four "principles for analytical adequacy" that are necessary in order to satisfy "CEQA's informational purposes." (*Vineyard Area Citizens, supra,* at p. 430.) The Court did not defer to the agency's determination that the EIR's analysis of water supply impacts was sufficient. Rather, this Court used its independent judgment to determine for itself the level of analysis required to satisfy CEQA's fundamental purposes. (*Vineyard Area Citizens, supra*, at p. 441: an EIR does not serve its purposes where it neglects to explain likely sources of water and "... leaves long term water supply considerations to later stages of the project.")

Similarly, the CEQA Guidelines require an analysis of noise impacts of the project. (Appendix G, "Environmental Checklist Form."[17]) In *Gray v. County of Madera* (2008) 167 Cal.App.4th 1099, 1123, the court held that the lead agency's noise impact analysis was inadequate even though it had addressed the issue and concluded that the increase would not be noticeable. If the court had been using the substantial evidence standard, it likely would have upheld this discussion.

Therefore, we do not agree that the issue can be resolved on the basis suggested by Friant Ranch, which would apply the substantial evidence standard to *every* challenge to an analysis that addresses a required CEQA topic. This interpretation would subvert the courts' proper role in interpreting CEQA and determining what the law requires.

Nor do we agree that the Court of Appeal in this case violated CEQA's prohibition on courts interpreting its provisions "in a manner which imposes procedural or substantive requirements beyond those explicitly stated in this division or in the state guidelines." (Pub. Resources Code § 21083.1.) CEQA requires an EIR to describe *all* significant impacts of the project on the environment. (Pub. Resources Code § 21100(b)(2); *Vineyard Area Citizens, supra,* at p. 428.) Human beings are part of the environment, so CEQA requires EIRs to discuss a project's significant impacts on human health. However, except in certain particular circumstances,[18] neither the CEQA statute nor Guidelines specify the precise level of analysis that agencies must undertake to satisfy the law's requirements. (see, e.g., CEQA Guidelines § 15126.2(a) [EIRs must describe "health and safety problems caused by {a project's} physical changes"].) Accordingly, courts must interpret CEQA as a whole to

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[17] Association of Environmental Professionals, 2015 CEQA Statute and Guidelines (2015) p.287.

[18] E.g., Pub. Resources Code § 21151.8(C)(3)(B)(iii) (requiring specific type of health risk analysis for siting schools).

determine whether a particular EIR is sufficient as an informational document. A court determining whether an EIR's discussion of human health impacts is legally sufficient does not constitute imposing a new substantive requirement.[19] Under Friant Ranch's theory, the above-referenced cases holding a CEQA analysis inadequate would have violated the law. This is not a reasonable interpretation.

IV. COURTS MUST SCRUPULOUSLY ENFORCE THE REQUIREMENTS THAT LEAD AGENCIES CONSULT WITH AND OBTAIN COMMENTS FROM AIR DISTRICTS

Courts must "scrupulously enforce" CEQA's legislatively mandated requirements. (*Vineyard Area Citizens, supra*, 40 Cal.4th 412, 435.) Case law has firmly established that lead agencies must consult with the relevant air pollution control district before conducting an initial study, and must provide the districts with notice of the intention to adopt a negative declaration (or EIR). (*Schenck v. County of Sonoma* (2011) 198 Cal.App.4th 949, 958.) As *Schenck* held, neither publishing the notice nor providing it to the State Clearinghouse was a sufficient substitute for sending notice directly to the air district. (*Id.*) Rather, courts "must be satisfied that [administrative] agencies have fully complied with the procedural requirements of CEQA, since only in this way can the important public purposes of CEQA be protected from subversion." *Schenck,* 198 Cal.App.4th at p. 959 (citations omitted).[20]

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[19] We submit that Public Resources Code Section 21083.1 was intended to prevent courts from, for example, holding that an agency must analyze economic impacts of a project where there are no resulting environmental impacts (see CEQA Guidelines § 15131) , or imposing new procedural requirements, such as imposing additional public notice requirements not set forth in CEQA or the Guidelines.

[20] Lead agencies must consult air districts, as public agencies with jurisdiction by law over resources affected by the project, *before* releasing an EIR. (Pub. Resources Code §§ 21104(a); 21153.) Moreover, air

Lead agencies should be aware, therefore, that failure to properly seek and consider input from the relevant air district constitutes legal error which may jeopardize their project approvals. For example, the court in *Fall River Wild Trout Foundation v. County of Shasta,* (1999) 70 Cal.App.4th 482, 492 held that the failure to give notice to a trustee agency (Department of Fish and Game) was prejudicial error requiring reversal. The court explained that the lack of notice prevented the Department from providing any response to the CEQA document. (*Id.* at p. 492.) It therefore prevented relevant information from being presented to the lead agency, which was prejudicial error because it precluded informed decision-making. (*Id.*)[21]

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districts should be considered "state agencies" for purposes of the requirement to consult with "trustee agencies" as set forth in Public Resources Code § 20180.3(a). This Court has long ago held that the districts are not mere "local agencies" whose regulations are superseded by those of a state agency regarding matters of statewide concern, but rather have concurrent jurisdiction over such issues. (*Orange County Air Pollution Control District v. Public Util. Com.* (1971) 4 Cal.3d 945, 951, 954.) Since air pollution is a matter of statewide concern, *Id* at 952, air districts should be entitled to trustee agency status in order to ensure that this vital concern is adequately protected during the CEQA process.

[21] In *Schenck,* the court concluded that failure to give notice to the air district was not prejudicial, but this was partly because the trial court had already corrected the error before the case arrived at the Court of Appeal. The trial court issued a writ of mandate requiring the lead agency to give notice to the air district. The air district responded by concurring with the lead agency that air impacts were not significant. (*Schenck,* 198 Cal.App.4th 949, 960.) We disagree with the *Schenck* court that the failure to give notice to the air district would not have been prejudicial (even in the absence of the trial court writ) merely because the lead agency purported to follow the air district's published CEQA guidelines for significance. (*Id.*, 198 Cal.App.4th at p. 960.) In the first place, absent notice to the air district, it is uncertain whether the lead agency properly followed those guidelines. Moreover, it is not realistic to expect that an air district's published guidelines would necessarily fully address all possible air-quality related issues that can arise with a CEQA project, or that those

Similarly, lead agencies must obtain additional information requested by expert agencies, including those with jurisdiction by law, if that information is necessary to determine a project's impacts. (*Sierra Club v. State Bd. Of Forestry* (1994) 7 Cal.4th 1215, 1236-37.) Approving a project without obtaining that information constitutes a failure to proceed in the manner prescribed by CEQA. (*Id.* at p. 1236.)

Moreover, a lead agency can save significant time and money by consulting with the air district early in the process. For example, the lead agency can learn what the air district recommends as an appropriate analysis on the facts of its case, including what kinds of health impacts analysis may be available, and what models are appropriate for use. This saves the lead agency from the need to do its analysis all over again and possibly needing to recirculate the document after errors are corrected, if new significant impacts are identified. (CEQA Guidelines § 15088.5(a).) At the same time, the air district's expert input can help the lead agency properly determine whether another commenter's request for additional analysis or studies is reasonable or feasible. Finally, the air district can provide input on what mitigation measures would be feasible and effective.

Therefore, we suggest that this Court provide guidance to lead agencies reminding them of the importance of consulting with the relevant air districts regarding these issues. Otherwise, their feasibility decisions may be vulnerable to air district evidence that establishes that there is no substantial evidence to support the lead agency decision not to provide specific analysis. (*See Berkeley Keep Jets Over the Bay, supra,* 91 Cal.App.4th 1344, 1369-1371.)

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guidelines would necessarily be continually modified to reflect new developments. Therefore we believe that, had the trial court not already ordered the lead agency to obtain the air district's views, the failure to give notice would have been prejudicial, as in *Fall River, supra,* 70 Cal.App.4th 482, 492.

CONCLUSION

The SCAQMD respectfully requests this Court *not* to establish a hard-and-fast rule concerning whether CEQA requires a lead agency to correlate identified air quality impacts of a project with resulting health outcomes. Moreover, the question of whether an EIR is "sufficient as an informational document" is a mixed question of fact and law containing two levels of inquiry. Whether a particular proposed analysis is feasible is predominantly a question of fact to be judged by the substantial evidence standard of review. Where the requested analysis is feasible, but the lead agency relies on legal or policy reasons not to provide it, the question of whether the EIR is nevertheless sufficient as an informational document is predominantly a question of law to be judged by the independent judgment standard of review.

Respectfully submitted,

DATED: April 3, 2015

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MANAGEMENT DISTRICT
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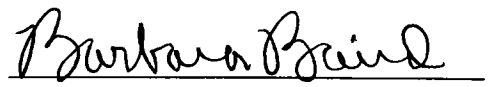
CERTIFICATE OF WORD COUNT

Pursuant to Rule 8.520(c)(1) of the California Rules of Court, I hereby certify that this brief contains 8,476 words, including footnotes, but excluding the Application, Table of Contents, Table of Authorities, Certificate of Service, this Certificate of Word Count, and signature blocks. I have relied on the word count of the Microsoft Word Vista program used to prepare this Certificate.

DATED: April 3, 2015 Respectfully submitted,



Barbara Baird

PROOF OF SERVICE

I am employed in the County of Los Angeles, California. I am over the age of 18 years and not a party to the within action. My business address is 21865 Copley Drive, Diamond Bar, California 91765.

On April 3, 2015 I served true copies of the following document(s) described as **APPLICATION OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT FOR LEAVE TO FILE BRIEF OF *AMICUS CURIAE* IN SUPPORT OF NEITHER PARTY AND *[PROPOSED]* BRIEF OF *AMICUS CURIAE*** by placing a true copy of the foregoing document(s) in a sealed envelope addressed as set forth on the attached service list as follows:

BY MAIL: I enclosed the document(s) in a sealed envelope or package addressed to the persons at the addresses listed in the Service List and placed the envelope for collection and mailing following our ordinary business practices. I am readily familiar with this District's practice for collection and processing of correspondence for mailing. Under that practice, the correspondence would be deposited with the United States Postal Service, with postage thereon fully prepaid at Diamond Bar, California, in the ordinary course of business. I am aware that on motion of the party served, service is presumed invalid if postal cancellation date or postage meter date is more than one day after date of deposit for mailing in affidavit.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Executed on April 3, 2015 at Diamond Bar, California.

Patricia Anderson

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9. Construction and Operational Health Risk Assessment Report

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September 2019 | Health Risk Assessment

ONTARIO RANCH BUSINESS PARK SPECIFIC PLAN

City of Ontario

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PLACEWORKS

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1. Introduction

The Ontario Ranch Business Park Specific Plan (ORBPSP) Project ("proposed project") consists of a General Plan Amendment, Specific Plan, Tentative Parcel Map, and Development Plans to allow for development of an industrial and business park development on eleven parcels covering 85.6 acres in the City of Ontario, San Bernardino County, California. The development would include eight warehouse and business park buildings ranging from 46,900 square feet to 618,353 square feet, for a maximum development of 1,905,027 square feet of warehouse and office uses.

The project site is located east of Euclid Avenue, north of Merrill Avenue, west of the unimproved right-of - way of Sultana Avenue, and south of Eucalyptus Avenue. The closest air quality sensitive receptors to the site are single family residences approximately 150 feet west of the site across Euclid Avenue and approximately 60 feet north of the site across Eucalyptus Avenue. Operation of the proposed project would generate toxic air contaminants (TACs) emissions due to truck activity in proximity to nearby sensitive receptors. Guidance from the California Environmental Protection Agency (Cal/EPA), Office of Environmental Health Hazard Assessment (OEHHA), California Air Pollution Control Officers Association (CAPCOA), and the South Coast Air Quality Management District (SCAQMD) recommend the completion of health risk assessments (HRA) to determine the impacts of hazardous air emissions upon sensitive receptors in the vicinity of the project.

In addition to project operation, project construction is anticipated to take place starting in October 2020 and be completed by within 26 months or approximately 2.17 years. The nearby sensitive receptors could be potentially impacted from the proposed construction activities. Therefore, the health risk impacts from construction activities were also determined for nearby sensitive receptors.

This report presents the results of a construction and operational health risk assessment for the proposed project. This HRA considers the health impact to sensitive receptors (adults and children in the nearby residences) of construction emissions at the project site from diesel equipment exhaust (diesel particulate matter or DPM), as well as operational phase emissions from diesel trucks, transport refrigeration units (TRUs), and diesel-fueled off-road equipment (i.e., yard trucks). It should be noted that these health impacts were based on conservative (i.e., health protective) assumptions. The United States Environmental Protection Agency (USEPA, 2005) and OEHHA (2015) note that conservative assumptions used in a risk assessment are intended to ensure that the estimated risks do not underestimate the actual risks. Therefore, the estimated risks do not necessarily represent actual risks experienced by populations near a site. The use of conservative assumptions tends to produce upper-bound estimates of risk and usually overestimate exposure and thus risk.

1. Introduction

For this residential-based risk assessment, the following conservative assumptions were used:

- It was assumed that maximum exposed children and adults stood outside at the site for 24 hours per day, 350 days per year. In reality, California residents typically will spend on average 2 hours per day outdoors at their residences (USEPA, 2011). This would result in lower estimated risk values.
- The calculated risk for infants from third trimester to age 2 is multiplied by a factor of 10 and for children from 2-16 years is multiplied by a factor of 3 to account for early life exposure and uncertainty in child versus adult exposure impacts (OEHHA, 2015).

Thus, the estimated risks provided in this HRA are conservative.

2. Project Description

The Ontario Ranch Business Park project site encompasses 11 parcels totaling 85.6 acres in the City of Ontario. The project site is in the southwestern portion of Ontario, immediately north of the City of Chino in San Bernardino County. The project site is located east of Euclid Avenue, north of Merrill Avenue, west of the unimproved right-of-way of Sultana Avenue, and south of Eucalyptus Avenue. The development would include eight warehouse and business park buildings ranging from 46,900 square feet to 618,353 square feet, for a maximum development of 1,905,027 square feet of warehouse and office uses. Office uses are ancillary to the warehouses and occupy up to 75,000 SF spread across the eight buildings.

The project site and vicinity are depicted in Figure 1. Nearby surrounding land uses consist of agricultural uses designated for future mixed-use to the north, residential and recreational uses within the City of Chino to the west, agricultural, public uses and the Chino Airport to the south, and agricultural uses to the east. The project site contains an operational dairy farm. The site contains two single-family residential structures, a dairy barn, a storage structure, approximately 10 feed storage barns, and numerous livestock corrals.

The Ontario Ranch Business Park Specific Plan (ORBPSP) consists of two Planning Areas (PA), PA-1 and PA-2, that will accommodate a variety of commercial, office, technology, light manufacturing, and warehouse/distribution uses. The ORBPSP land use plan implements the vision of the City's General Plan by providing opportunities in two land use designations, approximately 24 acres of Business Park (BP) and 62 acres of Industrial General (IG), which would allow for employment in manufacturing, distribution, research and development, service, and supporting retail at intensities designed to meet the demand of current and future market conditions.

The project would be built in two Phases. Phase 1 would include PA-2 (Buildings 1-3), the southern portion of the project site identified for industrial development. Phase 2 would develop PA-1 (Buildings 4-8) which is the northern portion of the project site identified for business park development. The project includes frontage improvements to the buildout condition identified in the TOP Circulation Element. Full buildout is identified below, with the project responsible for a half-width improvement only:

- Merrill Avenue: Collector Street, 4 Lanes (98-ft right-of-way [ROW])
- Euclid Avenue: Other Principal Arterial, 8 Lanes (200-ft ROW)
- Eucalyptus Avenue: Collector Street, 4 Lanes (108-ft ROW)
- Sultana Avenue: Collector Street, 2 Lanes (66-ft ROW)

The project entitlement and construction permitting process is expected to take approximately one year followed by two years of construction and buildout occurring in 2021. The construction process for the site would be initiated with demolition of existing structures, including, but not limited to sheds, corrals, along with nonconforming farm houses used in support of agricultural operations. This would be followed by grading; the site's grading is anticipated to balance, with no significant import or export required. The next

2. Project Description

stage in the process would be building construction and street improvements. All buildings within Phase 1 of the project (PA-1 and PA-2) would be developed concurrently, with the construction duration anticipated to be approximately two years. The final steps are the application of architectural coatings and paving of roads and parking areas. Project buildout is expected to occur by 2021. There is no timetable for Phase 2 development of PA-1.

The proposed site plan is depicted in Figure 2. The proposed site configuration includes the following details:

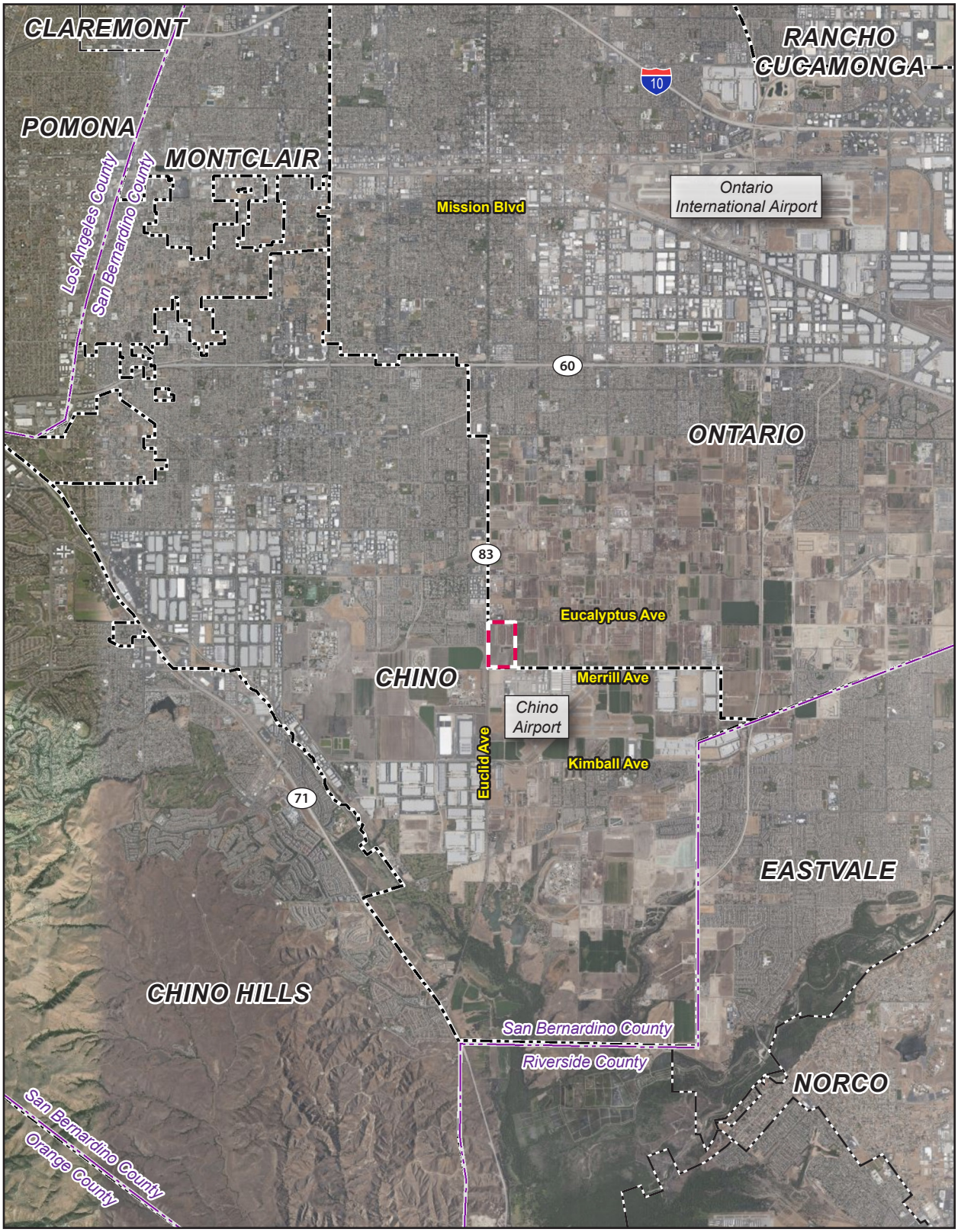
- Building 1: 600,964 SF and 82 truck bays
- Building 2: 618,353 SF and 82 truck bays
- Building 3: 227,806 SF and 39 truck bays
- Building 4: 130,030 SF and 21 truck bays
- Building 5: 79,200 SF and 11 truck bays
- Building 6: 46,900 SF and 6 truck bays
- Building 7: 95,624 SF and 14 truck bays
- Building 8: 106,150 SF and 14 truck bays
- Building Total: 1,905,027 SF with 269 total truck bays

The anticipated total development is proposed to consist of the following:

- 1,019,317 SF high-cube fulfillment center warehousing,
- 200,000 SF high-cube cold storage warehousing,
- 357,836 SF warehousing, and
- 327,874 SF business park (mix of merchant wholesale, professional services, warehouse/storage, and research and development uses.

Typically, industrial warehouse projects include indoor and outdoor cargo handling equipment to move containers short-distances on-site. As part of the Project's design, all indoor cargo handling equipment (i.e., forklifts) will be electric consistent with industry standards. However, outdoor equipment such as yard trucks will have a mix of diesel-fueled and non-fueled engines. Warehouse projects typically have 3.6 yard trucks per million square feet of building space (SCAQMD, 2014). Therefore, a total of 7 yard trucks (3 diesel-fueled, 4 compressed natural gas [CNG] fueled) were assumed operating 4 hours per day, 365 days per year at the project site.

Figure 1 - Site Vicinity



Project Boundary

City Boundary

0 1
Scale (Miles)

Source: ESRI, 2019

2. Project Description

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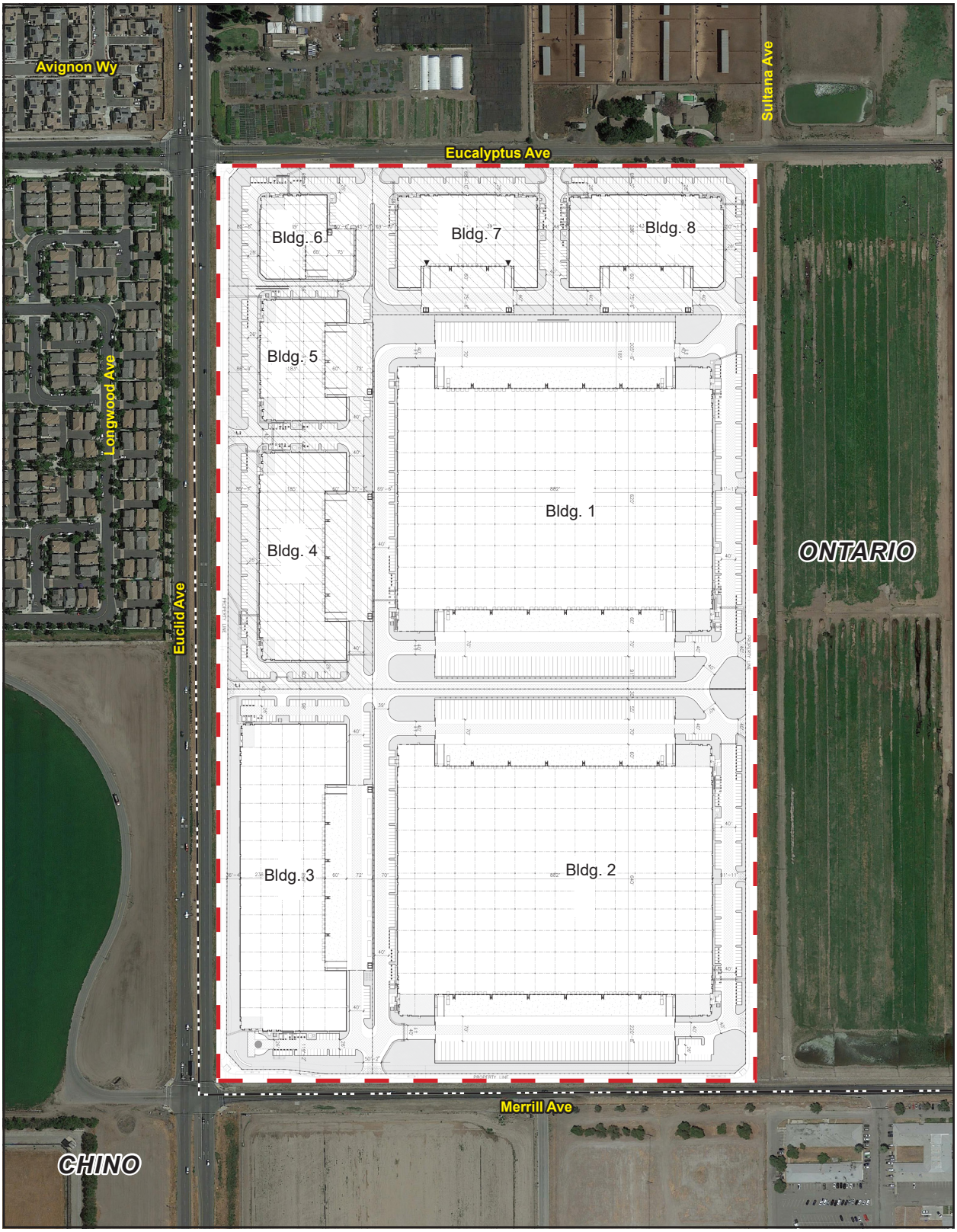
Figure 2 - Proposed Site Plan



Project Boundary

City Boundary

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Scale (Feet)

Source: Google Earth Pro, 2019; HPA Architecture

2. Project Description

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3. Emissions Inventories

3.1 CONSTRUCTION EMISSIONS

Construction emissions were calculated as average daily emissions in pounds per day, using the proposed construction schedule and the latest version of California Emissions Estimation Model, known as CalEEMod Version 2016.3.2 (CAPCOA, 2017). DPM emissions were based on the CalEEMod construction runs, using annual exhaust PM_{10} construction emissions presented in pounds per day (lbs/day).

The project was assumed to take place over approximately 26 months from the start of October 2020 through the end of November 2022. The average daily emission rates from construction equipment used during the proposed project were determined by dividing the annual average emissions for each construction year by the number of construction days per year for each calendar year of construction (i.e., 2020, 2021 and 2022). The modeled average daily emission rates for each construction scenario (Phase 1, Phase 2, and Off-site Improvements) are summarized in Table 1. The CalEEMod construction emissions output and emission rate calculations are provided in Appendix A.

Table 1 Construction Activity – Average Daily Emission Rates

Parameter – Year	On-site Emissions (lbs/day)	Total Truck Haul Emissions (lbs/day)
Phase 1 - 2020	1.69	0.025
Phase 2 - 2020	0.32	0.005
Off-site Improvements - 2020	0.99	0.005
Phase 1 - 2021	1.05	0.010
Phase 2 – 2021	n/a	n/a
Off-site Improvements – 2021	0.56	0.004
Phase 1 – 2022	n/a	n/a
Phase 2 - 2022	1.27	0.008
Off-site Improvements – 2022	0.26	0.002

Note: Presented emission rates are average daily emissions.
Source: CalEEMod 2016.3.2. On-site emissions are generated from off-road equipment. Truck Haul emissions are generated from worker/vendor and hauling trips.

3.2 OPERATIONAL EMISSIONS

To the degree practical, all contaminant emissions generated from each source were considered. The limiting factor for the inclusion of a compound was the availability of published exposure factors and other toxicity data enabling risks to be quantified and, where appropriate, target organs identified. Operational emission sources evaluated in the HRA include the diesel trucks traveling on-site over the ingress and egress driveways and idling at truck bays. Additionally, the HRA included the emissions from diesel trucks traveling to- and from the site along Euclid Avenue and the streets surrounding the site toward State Route 60 (SR-60) to the north and State Route 71 (SR-71) to the south. The evaluated truck volumes, truck fleet mix, and number equipped with TRUs are from the Traffic Impact Analysis prepared by Urban Crossroads (Urban Crossroads, 2019).

The California Air Resources Board (CARB) has developed the EMFAC2017 emission factor model to account for the emission standards representative of the California fleet (CARB, 2017). EMFAC2017 was used to identify diesel particulate matter (DPM) emission rates from diesel-fueled trucks. The PM_{10} emission factor for diesel-fueled vehicles was used as the surrogate for DPM (CARB, 2017). On-site truck travel emissions were determined for a lot speed of 5 miles per hour (mph), whereas off-site truck travel emissions were determined for a speed of 45 mph. Idling emission rates for trucks idling at the project truck bays were also determined using EMFAC2017 using an idling time of 15 minutes per truck. Diesel-fueled yard truck emission factors were determined using CARB's OFFROAD2017, Version 1.0.1 emission factor model for a 175 horsepower rail yard tractor (CARB, 2019a). Emission rate calculations are provided in Appendix B.

4. Air Dispersion Modeling

Air quality modeling using the AERMOD atmospheric dispersion model was performed to assess the impact of emitted compounds on sensitive receptors near the project. The model is a steady state Gaussian plume model and is an approved model by SCAQMD for estimating ground-level impacts from point and fugitive sources in simple and complex terrain. The on-site construction emissions for the project were modeled as poly-area sources (Phase 1 and Phase 2 construction areas; off-site improvement area), and the haul route emissions were modeled as adjacent line volume sources. The on-site operational emissions from truck travel and yard trucks were modeled as poly-area sources, and the idling trucks and TRU sources were modeled as point sources. The off-site truck travel emissions were modeled as adjacent volume sources. A 50 meter by 50 meter receptor grid was used for receptors within 1,000 feet of emission sources.

The model requires additional input parameters, including chemical emission data and local meteorology. Inputs for the operational phase emission rates are those described in Section 3. AERMOD ready meteorological (met) data obtained from SCAQMD for the nearest representative met station with the five latest available years of record was used to represent local weather conditions and prevailing winds (Chino Airport, 2012-2016). The prevailing wind direction at the Chino Airport met station is to the east-northeast, and the wind rose is provided in Appendix C.

The modeling analysis also considered the spatial distribution and elevation of each emitting source in relation to the sensitive receptors. To accommodate the model's Cartesian grid format, direction-dependent calculations were obtained by identifying the Universal Transverse Mercator (UTM) coordinates for each source location. In addition, digital elevation model (DEM) data for the area were obtained and included in the model runs to account for complex terrain. An emission release height of 4.15 meters was used as representative of the stack exhaust height for off-road construction equipment and diesel truck traffic, and an initial vertical dispersion parameter of 1.93 m was used, per CARB guidance (CARB, 2000).

To determine contaminant impacts during construction hours, the model's Hour-By-Day-of-Week (HRDOW) scalar option was invoked to predict flagpole-level concentrations (1.5 m for ground-floor receptors) for emissions generated between the hours of 7:00 AM and 4:00 PM, with a 1-hour lunch break, Monday to Friday. In addition, a scalar factor was applied to the risk calculations to account for the number of days residents are exposed to construction emissions per year. The operational model run evaluated emissions generated between the proposed work hours (24 hours per day, 7 days per week).

For all modeling runs, a unit emission rate of 1 gram per second was used. The unit emission rates were proportioned over the poly-area sources for on-site and off-site construction emissions, and on-site operational truck travel emissions, and divided between the volume sources for off-site hauling and truck route emissions. The truck haul route within 1,000 feet of the project site was evaluated for the construction modeling run. For the operational modeling, the truck route was extended from the project site to nearby freeways (i.e., SR-60 and SR-71). The maximum AERMOD concentrations from the output files were then

4. Air Dispersion Modeling

multiplied by the emission rates calculated in Appendices A and B to obtain the maximum ground-level concentrations at the maximum exposed receptor (MER). The AERMOD model output for the emission sources is presented in Appendix C for the construction model run and Appendix D for the operational model run. The model output DPM concentrations for the construction sources are provided in Appendix E. The model output concentrations for the operational phase sources are provided in Appendix F.

For the construction modeling, the receptor locations and construction haul route are presented in Figure 3. Figure 3 depicts the warehouse emission sources, truck haul route, and receptor locations used for the operational modeling.

5. Risk Characterizations

5.1 CARCINOGENIC CHEMICAL RISK

Carcinogenic compounds are not considered to have threshold levels (i.e., dose levels below which there are no risks). Therefore, any exposure will have some associated risk. The SCAQMD has established a maximum incremental cancer risk of 10 in a million (1×10^{-5} or 10×10^{-6}) for CEQA projects and the OEHHA also sets a typical risk management level as 10 in a million (OEHHA, 2015).

Health risks associated with exposure to carcinogenic compounds can be defined in terms of the probability of developing cancer as a result of exposure to a chemical at a given concentration. The cancer risk probability is determined by multiplying the chemical's annual concentration by its cancer potency factor (CPF), a measure of the carcinogenic potential of a chemical when a dose is received through the inhalation pathway. It is an upper-limit estimate of the probability of contracting cancer as a result of continuous exposure to an ambient concentration of one microgram per cubic meter ($\mu g/m^3$), averaged over a lifetime of 70 years.

Recent guidance from OEHHA recommends a refinement to the standard point estimate approach with the use of age-specific breathing rates and age sensitivity factors (ASFs) to assess risk for susceptible subpopulations such as children. For the inhalation pathway, the procedure requires the incorporation of several discrete variates to effectively quantify dose for each age group. Once determined, contaminant dose is multiplied by the cancer potency factor in units of inverse dose expressed in milligrams per kilogram per day $(mg/kg/day)^{-1}$ to derive the cancer risk estimate. Therefore, the following dose algorithm was used to accommodate the unique exposures associated with the residential receptors.

$$\mathrm{Dose}_{\mathrm{AIR,per\ age\ group}} = (\mathrm{C_{air}} \times \mathrm{EF} \times [\frac{\mathrm{BR}}{\mathrm{BW}}] \times \mathrm{A} \times \mathrm{CF})$$

Where:

$\mathrm{Dose_{AIR}}$	=	dose by inhalation (mg/kg-day), per age group
$\mathrm{C_{air}}$	=	concentration of contaminant in air ($\mu g/m^3$)
EF	=	exposure frequency (number of days/365 days)
BR/BW	=	daily breathing rate normalized to body weight (L/kg-day)
A	=	inhalation absorption factor (default = 1)
CF	=	conversion factor (1×10^{-6}, µg to mg, L to m^3)

The inhalation absorption factor (A) is a unitless factor that is only used if the cancer potency factor included a correction for absorption across the lung. For this assessment, the default value of 1 was used. For residential receptors, the exposure frequency (EF) of 0.96 is used to represent 350 days per year to allow for a two week period away from home each year (OEHHA 2015). This timeline is considered appropriate for

5. Risk Characterizations

potential workplace exposures established by OEHHA (2015). The 95th percentile daily breathing rates (BR/BW), exposure duration (ED), age sensitivity factors (ASFs), and fraction of time at home (FAH) for the various age groups are provided herein:

Age Groups	BR/BW (L/kg-day)	ED	ASF	FAH
Third trimester	361	0.25	10	0.85
0-2 age group	1,090	2	10	0.85
2-9 age group	861	7	3	0.72
2-16 age group	745	14	3	0.72
16-30 age group	335	14	1	0.73
16-70 age group	290	54	1	0.73

For construction analysis, the exposure duration spans the length of construction (e.g. 2.17 years or 26 months). To calculate the overall cancer risk, the risk for each appropriate age group is calculated per the following equation:

$$\text{Cancer Risk}_{\text{AIR}} = \text{Dose}_{\text{AIR}} \times \text{CPF} \times \text{ASF} \times \text{FAH} \times \frac{\text{ED}}{AT}$$

Where:

Dose_{AIR}	=	dose by inhalation (mg/kg-day), per age group
CPF	=	cancer potency factor, chemical-specific $(\text{mg/kg-day})^{-1}$
ASF	=	age sensitivity factor, per age group
FAH	=	fraction of time at home, per age group (for residential receptors only)
ED	=	exposure duration (years)
AT	=	averaging time period over which exposure duration is averaged (always 70 years)

The CPFs used in the assessment were obtained from OEHHA guidance. The excess lifetime cancer risks during the construction period and during the operational phase to the maximally exposed resident were calculated based on the factors provided above. The cancer risks for each age group are summed to estimate the total cancer risk for each toxic chemical species. For purposes of this assessment, the calculated residential cancer risks associated with construction activities are based on the 3rd trimester and 0 to 2 year old age groups. The final step converts the cancer risk in scientific notation to a whole number that expresses the cancer risk in "chances per million" by multiplying the cancer risk by a factor of 1×10^6 (i.e. 1 million).

For cancer risks due to project operation, the assessment was based on reasonable maximum exposure defined as the "highest exposure that is reasonably expected to occur" for a given receptor population. Lifetime risk values for the residents were calculated for an exposure of 350 days per year for 30 years (high-end estimate) in accordance with OEHHA's guidance. Additionally, the maximum lifetime residency exposure (70-year scenario) and the average residency exposure (9-year scenario) risk values were determined for informational purposes. It was assumed that the MER spent 24 hours/day, 7 days/week, 350 days/year outside near the residence, as per default exposure parameters.

For construction, the calculated results are provided in Appendix E. For the operational risk calculations, CARB's Hotspots Analysis and Reporting Program (HARP2) Risk Assessment Standalone Tool was used to calculate the cancer risk values (CARB, 2019b) and is provided in Appendix F.

5.2 NON-CARCINOGENIC HAZARDS

An evaluation was also conducted of the potential non-cancer effects of chronic chemical exposures. Adverse health effects are evaluated by comparing the annual receptor level (ground-level) concentration of each chemical compound with the appropriate reference exposure limit (REL). Available RELs promulgated by OEHHA were considered in the assessment.

The hazard index approach was used to quantify non-carcinogenic impacts. The hazard index assumes that chronic and acute sub-threshold exposures adversely affect a specific organ or organ system (toxicological endpoint). Target organs presented in regulatory guidance were used for each discrete chemical exposure. To calculate the hazard index, each chemical concentration or dose is divided by the appropriate toxicity value. This ratio is summed for compounds affecting the same toxicological endpoint. A health hazard is presumed to exist where the total equals or exceeds one.

For construction, the chronic hazard analysis for DPM is provided in Appendix E. For the operational risk calculations, CARB's HARP2, Risk Assessment Standalone Tool was used to calculate the chronic health risk values (CARB, 2019b) and is provided in Appendix F. The calculations contain the relevant exposure concentrations and corresponding reference dose values used in the evaluation of non-carcinogenic exposures.

5. Risk Characterizations

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6. Results and Conclusions

The following section summarizes the results and conclusion for this HRA report. For the construction and operational modeling, the receptor and MER locations are presented in Figures 3 and 5, respectively.

6.1 CONSTRUCTION HEALTH RISKS

The residential health risk values are based on the maximum modeled receptor concentration over the construction exposure period, conservatively assuming a 24-hour per day outdoor exposure and averaged over a 70-year lifetime. According to the modeling results and as shown in Figure 3, the residential MER is the single family residence north of the project site across Eucalyptus Avenue. Results of the health risk assessment shown in Table 2 indicate that the maximum incremental cancer risk during the construction phase of the project at the residential MER is 9.4 per million, which is below the significance threshold of 10 per million. For non-carcinogenic effects, the hazard index identified for each toxicological endpoint totaled less than one for the residential MER. Therefore, chronic non-carcinogenic hazards are within acceptable limits. Therefore, the project would not expose off-site sensitive receptors to substantial concentrations of air pollutant emissions during construction and impacts would be *less than significant*.

Table 2 Construction HRA Results

Receptor	Cancer Risk (per million)	Chronic Hazard Index
Maximum Exposed Receptor – Resident	9.4	0.022
SCAQMD Threshold	10	1.0
Exceeds Threshold?	**No**	**No**

Notes: Cancer risk calculated using 2015 OEHHA HRA guidance.

6.2 OPERATIONAL HEALTH RISKS

The results of the operational health risk assessment are provided in Table 3 for the unmitigated scenario. The incremental cancer risk for the residential MER, based on the maximum ground-level concentration for a 30-year, 24-hour outdoor exposure duration is 6.2 in a million. In comparison to the significance threshold of 10 in a million, carcinogenic risks are below the threshold value for residents in vicinity of the project. For non-carcinogenic effects, the chronic hazard index identified for each toxicological endpoint totaled less than one for residents. Therefore, chronic non-carcinogenic hazards are below the significance threshold.

Therefore, the project would not expose off-site sensitive receptors to substantial concentrations of air pollutant emissions during project operation and impacts would be *less than significant*.

6. Results and Conclusions

Table 3 Operational HRA Results

Receptor	Sources	Cancer Risk [1] (per million)	Chronic Hazard Index
MER – Resident North of Site	All Sources	6.2	0.002
SCAQMD Threshold		10	1.0
Exceeds Threshold?		**No**	**No**

Sources: CARB HARP2, 2019b.
1 OEHHA (2015) recommends that a 30-year (high end residency time) exposure duration be used to estimate individual cancer risk for the maximum exposed receptor. Provided for informational purposes, the 70-year (maximum lifetime exposure) and 9-year (central tendency exposure) cancer risks are 7.3 in a million and 4.4 in a million, respectively.

6.3 CUMULATIVE ANALYSIS

The SCAQMD has published a report on how to address cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (SCAQMD, 2003). The SCAQMD report states (Page D-3):

> "…the SCAQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for toxic air contaminant (TAC) emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facility-wide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.
>
> Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant."

Therefore, the project would not result in cumulative impacts since neither the construction nor operational phase of the project would exceed the project-specific significance thresholds.

The following evaluates the combined health risks from project-related construction and operational activities for a 30-year residential scenario. The risks levels shown in Table 4 are based on 2 years of exposure to construction emissions and 28 years of exposure to operational emissions. As shown in the table, total cancer risks from project-related construction and operational activities would be 13.0 in a million. In comparison to the significance threshold of 10 in a million, carcinogenic risks exceed the threshold value for residents in vicinity of the project. For non-carcinogenic effects, the chronic hazard index identified for each toxicological endpoint totaled less than one for residents. Therefore, chronic non-carcinogenic hazards are below the significance threshold. However, because the cancer risks would exceed 10 in a million, the project would

expose off-site residential receptors to substantial concentrations of toxic air contaminants for the combined construction plus operation scenario, and impacts would be *potentially significant*.

Table 4 Cumulative Analysis Results

Source	Cancer Risk – 30-year Residential (per million)	Chronic Hazard Index
Construction Emissions – 2-year duration	9.4	0.022
Operational Emissions – 28-year duration	3.6	0.002
Cumulative Total	13.0	0.024
SCAQMD Threshold	10	1.0
Exceeds Threshold?	**Yes**	**No**

Sources: CARB HARP2, 2019b.

The following mitigation measure was included for the Air Quality (AQ) analysis in the Draft Environmental Impact Report (DEIR) to address exceedances of SCAQMD's regional thresholds from volatile organic compound (VOC) and nitrogen oxides (NOx) construction emissions:

> **Mitigation Measure AQ-1:** Construction contractors shall, at minimum, use equipment that meets the United States Environmental Protection Agency's (EPA) Tier 4 Interim emissions standards for off-road diesel-powered construction equipment with more than 50 horsepower for all Phase 1 rough grading and rough grading soil hauling activities, unless it can be demonstrated to the City of Ontario Building Department that such equipment is not available. Any emissions control device used by the contractor shall achieve emissions reductions that are no less than what could be achieved by Tier 4 Interim emissions standards for a similarly sized engine, as defined by the California Air Resources Board's regulations.
>
> Prior to construction, the project engineer shall ensure that all construction (e.g., demolition and grading) plans clearly show the requirement for EPA Tier 4 Interim emissions standards for construction equipment over 50 horsepower for the specific activities stated above. During construction, the construction contractor shall maintain a list of all operating equipment in use on the construction site for verification by the City of Ontario. The construction equipment list shall state the makes, models, Equipment Identification Numbers, and number of construction equipment onsite. Equipment shall be properly serviced and maintained in accordance with the manufacturer's recommendations. Construction contractors shall also ensure that all nonessential idling of construction equipment is restricted to 5 minutes or less in compliance with Section 2449 of the California Code of Regulations, Title 13, Article 4.8, Chapter 9.

Additionally, the following mitigation measure was included AQ analysis of the DEIR to address exceeding the cancer risk threshold for the combined construction plus operation health risk scenario:

> **Mitigation Measure AQ-13:** Construction contractors shall, at minimum, use equipment that meets the United States Environmental Protection Agency's (EPA) Tier 4 Interim emissions standards for off-road

6. Results and Conclusions

diesel-powered construction equipment with more than 50 horsepower for all Phase 2 building construction activities, unless it can be demonstrated to the City of Ontario Building Department that such equipment is not available. Any emissions control device used by the contractor shall achieve emissions reductions that are no less than what could be achieved by Tier 4 Interim emissions standards for a similarly sized engine, as defined by the California Air Resources Board's regulations.

Prior to construction, the project engineer shall ensure that all construction (e.g., demolition and grading) plans clearly show the requirement for EPA Tier 4 Interim emissions standards for construction equipment over 50 horsepower for the specific activities stated above. During construction, the construction contractor shall maintain a list of all operating equipment in use on the construction site for verification by the City of Ontario. The construction equipment list shall state the makes, models, Equipment Identification Numbers, and number of construction equipment onsite. Equipment shall be properly serviced and maintained in accordance with the manufacturer's recommendations. Construction contractors shall also ensure that all nonessential idling of construction equipment is restricted to 5 minutes or less in compliance with Section 2449 of the California Code of Regulations, Title 13, Article 4.8, Chapter 9.

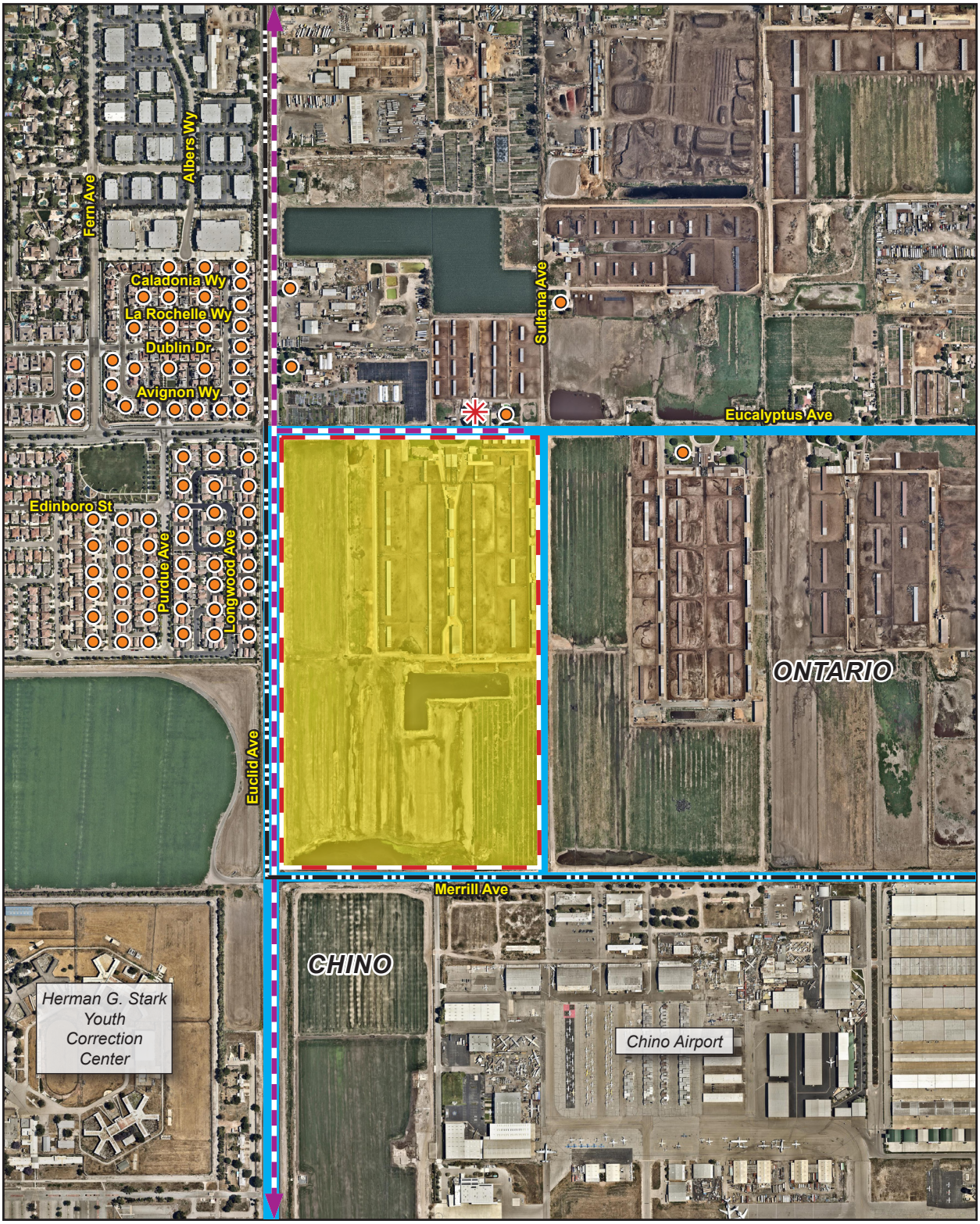
Implementation of Mitigation Measure AQ-1 would require off-road construction equipment of 50 horsepower (hp) or greater used for Phase 1 rough grading activities to be fitted with engines that meet the EPA's Tier 4 Interim emissions standards. Similarly, implementation of Mitigation Measure AQ-13 would require off-road construction equipment of 50 hp or greater used for Phase 2 building construction activities to be fitted with engines that meet the EPA's Tier 4 Interim emissions standards. As shown in Table 5, implementation of Mitigation Measure AQ-13 in addition to Mitigation Measure AQ-1, which is prescribed to reduce project-related regional construction impacts, would reduce the total combined cancer risk to 7.7 in a million. Therefore, potential health risk impacts to off-site residential receptors for the combined construction plus operation scenario would be reduced to *less than significant with mitigation*.

Table 5 Cumulative Analysis Results – with Mitigation

Source	Cancer Risk – 30-year Residential (per million)	Chronic Hazard Index
Construction Emissions – 2-year duration[1]	4.1	0.013
Operational Emissions – 28-year duration	3.6	0.002
Cumulative Total[2]	7.7	0.015
SCAQMD Threshold	10	1.0
Exceeds Threshold?	**No**	**No**

Notes:
1 Incorporates Mitigation Measures AQ-1 and AQ-13, which requires all equipment of 50 horsepower or more used for Phase 1 rough grading activities and Phase 2 building construction activities be fitted with engines that meet the EPA's Tier 4 Interim emissions standards, respectively.
2 Totals are not rounded.

Figure 3 - Project Site and Off-Site Receptor Locations for Construction Analysis



Project Boundary
City Boundary
Construction Truck Haul Route
Offsite Development Area
Maximum Exposed Receptor - Residential
Receptors - Residential
Onsite Development Area
0 900
Scale (Feet)

Source: Nearmap, 2019

6. Results and Conclusions

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Figure 4 - Project Site and Off-Site Receptor Locations for Operational Analysis

Project Boundary
City Boundary
Truck Route
Receptors - Residential
0 1
Scale (Miles)

Source: ESRI, 2019

6. Results and Conclusions

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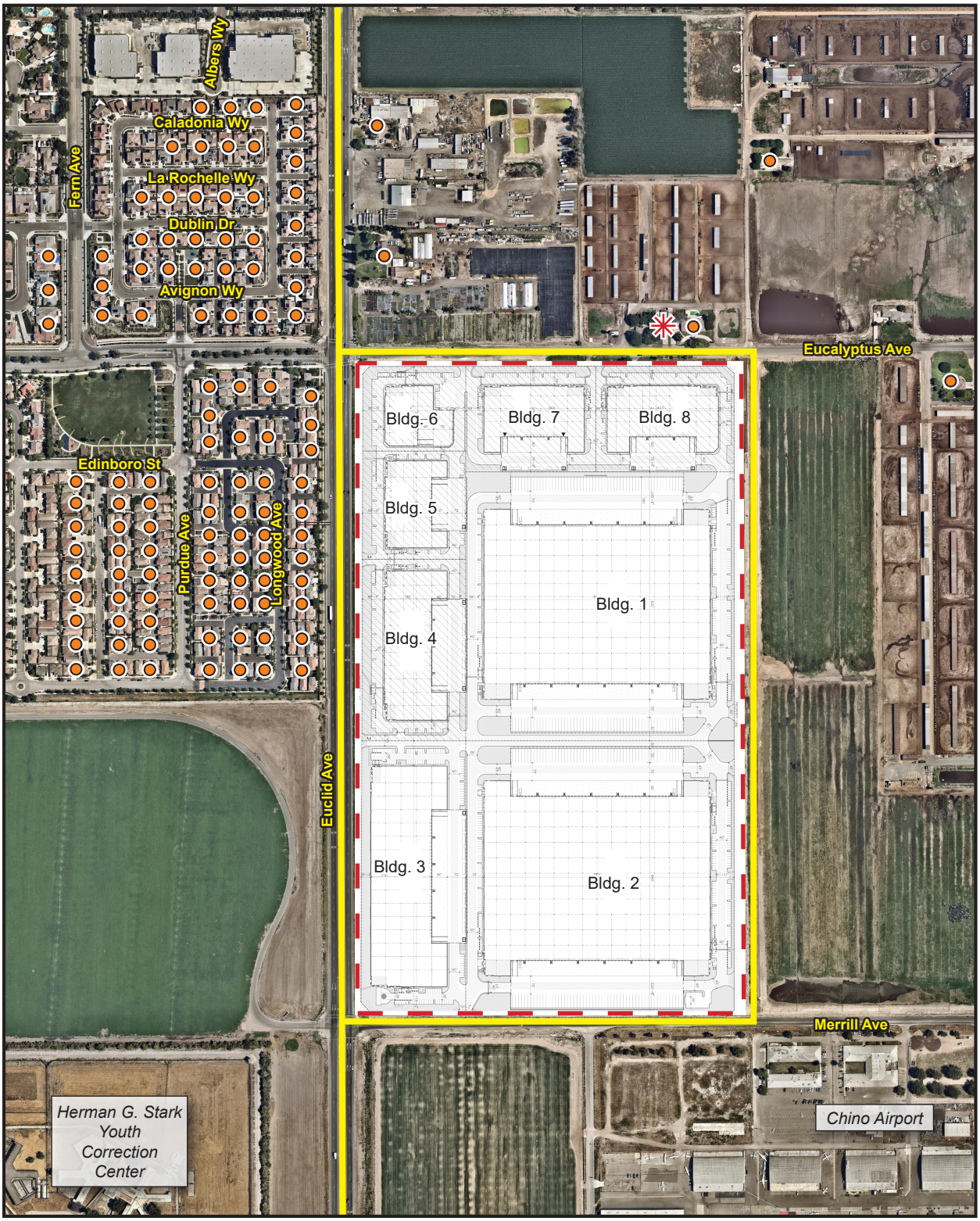
Figure 5 - Maximum Exposed Receptor Location for Operational Analysis



Project Boundary

Truck Route

Residential MER

Receptors - Residential

0 900
Scale (Feet)

Source: Nearmap, 2019

6. Results and Conclusions

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7. References

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Appendix A. Construction Emission Rate Calculations

Appendix

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Average Daily Emissions and Emission Rates

Onsite Construction PM10 Exhaust Emissions[1]

	Year	Annual PM10 Exhaust Emissions (Tons/Year)	Annual PM10 Exhaust Emissions (lbs/Year)	# of Construction Days/Year	Average Daily Emissions (lbs/day)	Average Daily Emissions (lbs/hr)	Emission Rate (g/s)	# of Workdays/ Year	Risk Scalar[2]
Offsite	2020	0.0099	19.74	20	0.99	1.23E-01	1.55E-02	262	0.08
	2021	0.0723	144.50	260	0.56	6.95E-02	8.75E-03	261	1.00
	2022	0.0027	5.480	21	0.26	3.26E-02	4.11E-03	260	0.08
P1	2020	0.0539	107.88	64	1.69	2.11E-01	2.65E-02	262	0.24
	2021	0.1332	266.48	253	1.05	1.32E-01	1.66E-02	261	0.97
P2	2020	0.0063	12.64	39	0.32	4.05E-02	5.10E-03	262	0.15
	2022	0.1519	303.82	239	1.27	1.59E-01	2.00E-02	260	0.92

Offsite Construction PM10 Exhaust Emissions[1]

	Year	Annual PM10 Exhaust Emissions (Tons/Year)	Annual PM10 Exhaust Emissions (lbs/Year)	# of Construction Days/Year	Average Daily Emissions (lbs/day)	Hauling Emissions w/in 1,000 ft (lbs/day)[3]	Emission Rate (lbs/hr)	Emission Rate (g/s)
Offsite	2020	0.0001	0.100	20	5.00E-03	8.38E-04	1.05E-04	1.32E-05
	2021	0.0004	0.9	260	3.38E-03	5.67E-04	7.09E-05	8.94E-06
	2022	0.0000	0.040	21	1.90E-03	3.19E-04	3.99E-05	5.03E-06
P1 Onsite	2020	0.0008	1.60	64	2.50E-02	2.73E-03	3.41E-04	4.30E-05
	2021	0.0013	2.52	253	9.96E-03	1.09E-03	1.36E-04	1.71E-05
P2	2020	0.0001	0.200	39	5.13E-03	5.87E-04	7.34E-05	9.25E-06
	2022	0.0011	2.10	239	8.79E-03	1.01E-03	1.26E-04	1.58E-05

Note: Emissions evenly distributed over 120 modeled volume sources.

	Offsite	Phase 1			Phase 2		
	Vendor	Building Demolition	Asphalt Demolition	Grading	Building Demolition	Asphalt Demolition	Grading
Haul Length (miles)	6.9	14	105	10	14	35	10
Number of Haul Trips	n/a	4	22	3,572	4	8	2,143

	Offsite	Phase 1	Phase 2	
Hauling Length (miles)[4]	6.90	10.59	10.10	miles
Haul Length within 1,000 ft of Site (mile)[3]	1.16	1.16	1.16	miles
Hours per work day (7:00 AM to 4:00 PM, 1-	8	8	8	hours

[1] DPM emissions taken as PM_{10} exhaust emissions from CalEEMod average daily emissions.

[2] Risk scalars determined for each year of construction to adjust receptor exposures to the exposure durations for each construction year (see App E - Risk Calculations).

[3] Emissions from CalEEMod offsite average daily emissions, which is based on proportioned haul truck trip distances , are adjusted to evaluate emissions from the **1.14-**mile route within 1,000 of the project site.

[4] Offsite length is based on the CalEEMod default vendor trip length. Phase 1 and Phase 2 haul lengths are the weighted average based on the haul trip distances and haul trips associated with building and asphalt demolition debris haul and soil materials haul.

[5] Work hours applied in By Hour/Day (HRDOW) variable emissions module in air dispersion model (see App C - Air Dispersion Model Output Files).

Average Daily Emissions and Emission Rates: Mitigated Scenario

Onsite Construction PM10 Exhaust Emissions[1]

	Year	Annual PM10 Exhaust Emissions (Tons/Year)	Annual PM10 Exhaust Emissions (lbs/Year)	# of Construction Days/Year	Average Daily Emissions (lbs/day)	Average Daily Emissions (lbs/hr)	Emission Rate (g/s)	# of Workdays/ Year	Risk Scalar[2]
Offsite	2020	0.0099	19.74	20	0.99	1.23E-01	1.55E-02	262	0.08
	2021	0.0723	144.50	260	0.56	6.95E-02	8.75E-03	261	1.00
	2022	0.0027	5.480	21	0.26	3.26E-02	4.11E-03	260	0.08
P1	2020	0.0124	24.86	64	0.39	4.86E-02	6.12E-03	262	0.24
	2021	0.1217	243.30	253	0.96	1.20E-01	1.51E-02	261	0.97
P2	2020	0.0063	12.64	39	0.32	4.05E-02	5.10E-03	262	0.15
	2022	0.0502	100.34	239	0.42	5.25E-02	6.61E-03	260	0.92

Offsite Construction PM10 Exhaust Emissions[1]

	Year	Annual PM10 Exhaust Emissions (Tons/Year)	Annual PM10 Exhaust Emissions (lbs/Year)	# of Construction Days/Year	Average Daily Emissions (lbs/day)	Hauling Emissions w/in 1,000 ft (lbs/day)[3]	Emission Rate (lbs/hr)	Emission Rate (g/s)
Offsite	2020	0.0001	0.100	20	5.00E-03	8.38E-04	1.05E-04	1.32E-05
	2021	0.0004	0.9	260	3.38E-03	5.67E-04	7.09E-05	8.94E-06
	2022	0.0000	0.040	21	1.90E-03	3.19E-04	3.99E-05	5.03E-06
P1 Onsite	2020	0.0008	1.60	64	2.50E-02	2.73E-03	3.41E-04	4.30E-05
	2021	0.0013	2.52	253	9.96E-03	1.09E-03	1.36E-04	1.71E-05
P2	2020	0.0001	0.200	39	5.13E-03	5.87E-04	7.34E-05	9.25E-06
	2022	0.0011	2.10	239	8.79E-03	1.01E-03	1.26E-04	1.58E-05

Note: Emissions evenly distributed over 120 modeled volume sources.

	Offsite	Phase 1			Phase 2		
	Vendor	Building Demolition	Asphalt Demolition	Grading	Building Demolition	Asphalt Demolition	Grading
Haul Length (miles)	6.9	14	105	10	14	35	10
Number of Haul Trips	n/a	4	22	3,572	4	8	2,143

	Offsite	Phase 1	Phase 2	
Hauling Length (miles)[4]	6.90	10.59	10.10	miles
Haul Length within 1,000 ft of Site (mile)[3]	1.16	1.16	1.16	miles
Hours per work day (7:00 AM to 4:00 PM, 1-	8	8	8	hours

[1] DPM emissions taken as PM_{10} exhaust emissions from CalEEMod average daily emissions.

[2] Risk scalars determined for each year of construction to adjust receptor exposures to the exposure durations for each construction year (see App E - Risk Calculations).

[3] Emissions from CalEEMod offsite average daily emissions, which is based on proportioned haul truck trip distances , are adjusted to evaluate emissions from the **1.14-**mile route within 1,000 of the project site.

[4] Offsite length is based on the CalEEMod default vendor trip length. Phase 1 and Phase 2 haul lengths are the weighted average based on the haul trip distances and haul trips associated with building and asphalt demolition debris haul and soil materials haul.

[5] Work hours applied in By Hour/Day (HRDOW) variable emissions module in air dispersion model (see App C - Air Dispersion Model Output Files).

Appendix B. Operational Emission Rate Calculations

Appendix

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Source - Phase 1 - Industrial Warehousing
Diesel Trucks and TRUs
Ontario Business Park Specific Plan
Ontario, CA

Operation: Truck Activity, for Operational HRA

	hours	days	weeks
Temporal Profile:	24	7	52
	0	0	0

Truck Activity: (1)

Heavy-Heavy Duty Trucks	300	trips per day	150	trucks per day
Medium-Heavy Duty Trucks	214	trips per day	107	trucks per day
Heavy-Heavy Duty Trucks w/ TRUs	74	trips per day	37	trucks per day
Medium-Heavy Duty Trucks w/ TRUs	64	trips per day	32	trucks per day
Distance Traveled/Truck			0.61	on-site (mi)
			10.90	off-site (mi)
Idling Duration			15	min
TRU Cycle Duration (min/hr) (2)			15	min
Truck Bays (Bldgs 1-3)			203	

Running Emissions:

	area source	line volume src
Heavy-Heavy Duty Trucks	On-site (3)	Truck Rte (4)
DPM Emission Factor (g/mi)	0.0451	0.0224
DPM Running Emissions (g/sec)	5.91E-05	5.28E-04
Medium-Heavy Duty Trucks		
DPM Emission Factor (g/mi)	0.0581	0.0328
DPM Running Emissions (g/sec)	5.67E-05	5.75E-04
Total DPM Running Emissions (g/s)	**1.16E-04**	**1.10E-03**

Idling Emissions (point-source): (5)

Heavy-Heavy Duty Trucks	
DPM Emission Factor (g/hr)	0.0171
Idling Emissions (g/sec)	9.26E-06
Idling Emissions (g/sec/bay)	4.56E-08
Medium-Heavy Duty Trucks	
DPM Emission Factor (g/hr)	0.1253
Idling Emissions (g/sec)	5.04E-05
Idling Emissions (g/sec/bay)	2.48E-07

TRU Genset Emissions (point-source):

Emission Factor (g/bhp-hr) (7)	0.02
Load Factor (8)	0.28
TRU Horsepower (bhp) (7)	50
Emission Factor (g/sec)	7.78E-05
TRU Genset Emissions (g/day)	9.66E+00
TRU Genset Emissions (g/sec)	1.12E-04
TRU Genset Emissions (g/sec/bay)	5.51E-07
Total DPM Idling Emissions (g/s/bay)	**8.45E-07**

Point Source Specifications (vertical release): (6)

Stack Temperature	366	K
Stack Velocity	51.7	m/s
Stack Diameter	4.0	inches
Stack Height	4.15	m

(1) From TIA from Urban Crossroads (June 17, 2019). For this evaluation, Heavy-Heavy Duty Trucks (HHDT) assumed 4+/5-axle trucks and Medium-Heavy Duty Trucks (MHDT) assumed 2-4-axle trucks.

(2) TRU cycle duration assumptions from CARB's Risk Characterization Scenarios, Appendix VII for Distribution Center Scenario (October 2000). TRU's assumed cycled 25 percent of the time for two hours (i.e., 15 min every hour for two hours).

(3) For on-site truck travel emissions, PM10 running emission factors for diesel-fueled trucks obtained from CARB (EMFAC2017) for analysis years 2022 based upon an average lot travel speed of 5 mph.

(4) For off-site (truck route) emissions, PM10 running emission factors for diesel-fueled trucks obtained from CARB (EMFAC2017) for analysis years 2022 based on an average travel speed of 45 mph.

(5) PM10 idling emission factors for diesel-fueled trucks obtained from CARB (EMFAC2017) for analysis years 2022.

(6) Stack parameters for idling trucks from CARB's Risk Characterization Scenarios, Appendix VII for idling diesel trucks (October 2000).

(7) Emission Factor for TRU generator set obtained from CARB, Airborne Toxic Control Measure for In-Use Diesel-Fueled Transporation Refrigeration Units (TRU) and TRU Generator Sets, and Facilities where TRUs Operate, Table 2 - Ultra-Low Emission In-Use Performance Standards (CARB, 2005).

(8) TRU load factor based on CARB Diesel Risk Reduction Program, Appendix VII (CARB, 2000).

Source - Phase 2 - Business Park
Diesel Trucks
Ontario Business Park Specific Plan
Ontario, CA

Operation: Truck Activity, for Operational HRA

	hours	days	weeks
Temporal Profile:	24	7	52
	0	0	0

Truck Activity: (1)

Heavy-Heavy Duty Trucks	90	trips per day	45	trucks per day
Medium-Heavy Duty Trucks	54	trips per day	27	trucks per day
Distance Traveled/Truck			0.56	on-site (mi)
			10.90	off-site (mi)
Idling Duration			15	min
Truck Bays (Bldgs 4-8)			66	

Running Emissions:

	area source	line volume src
Heavy-Heavy Duty Trucks	On-site (2)	Truck Rte (3)
DPM Emission Factor (g/mi)	0.0451	0.0224
DPM Running Emissions (g/sec)	1.31E-05	1.27E-04
Medium-Heavy Duty Trucks		
DPM Emission Factor (g/mi)	0.0581	0.0328
DPM Running Emissions (g/sec)	1.02E-05	1.12E-04
Total DPM Running Emissions (g/s)	**2.33E-05**	**2.39E-04**

Idling Emissions (point-source): (4)

Heavy-Heavy Duty Trucks	
DPM Emission Factor (g/hr)	0.0171
Idling Emissions (g/sec)	2.23E-06
Idling Emissions (g/sec/bay)	3.38E-08
Medium-Heavy Duty Trucks	
DPM Emission Factor (g/hr)	0.1253
Idling Emissions (g/sec)	9.79E-06
Idling Emissions (g/sec/bay)	1.48E-07
Total DPM Idling Emissions (g/s/bay)	**1.82E-07**

Point Source Specifications (vertical release): (5)

Stack Temperature	366	K
Stack Velocity	51.7	m/s
Stack Diameter	4.0	inches
Stack Height	4.15	m

(1) From TIA from Urban Crossroads (June 17, 2019). For this evaluation, Heavy-Heavy Duty Trucks (HHDT) assumed 4+/5-axle trucks and Medium-Heavy Duty Trucks (MHDT) assumed 2-4-axle trucks.

(2) For on-site truck travel emissions, PM10 running emission factors for diesel-fueled trucks obtained from CARB (EMFAC2017) for analysis years 2022 based upon an average lot travel speed of 5 mph.

(3) For off-site (truck route) emissions, PM10 running emission factors for diesel-fueled trucks obtained from CARB (EMFAC2017) for analysis years 2022 based on an average travel speed of 45 mph.

(4) PM10 idling emission factors for diesel-fueled trucks obtained from CARB (EMFAC2017) for analysis years 2022.

(5) Stack parameters for idling trucks from CARB's Risk Characterization Scenarios, Appendix VII for idling diesel trucks (October 2000).

Volume Source Calcs - Roadways

Unit Emission Rate Adjustments, per length of line volume source

SLINE	Roadway		length (m)	ratio/rate	
1	Euclid		11553.8	**0.658**	
2	Eucalyptus		491	**0.028**	
3	Merrill		488.2	**0.028**	
4	Sultana		801.5	**0.046**	
5	60 EB On		502.9	**0.029**	
6	60 WB Off		525	**0.030**	
7	60 EB Off		506.6	**0.029**	
8	60 WB On		492	**0.028**	
9	71 NB Off		518.4	**0.030**	
10	71 SB On1		225.8	**0.013**	
11	71 SB Off		480.8	**0.027**	
12	71 NB On		557.4	**0.032**	
13	71 SB On2		403.5	**0.023**	
Sum		m	17546.9	**1.00**	g/s
		mi	10.90		

Total Haul Route Emission Rate

1.34E-03

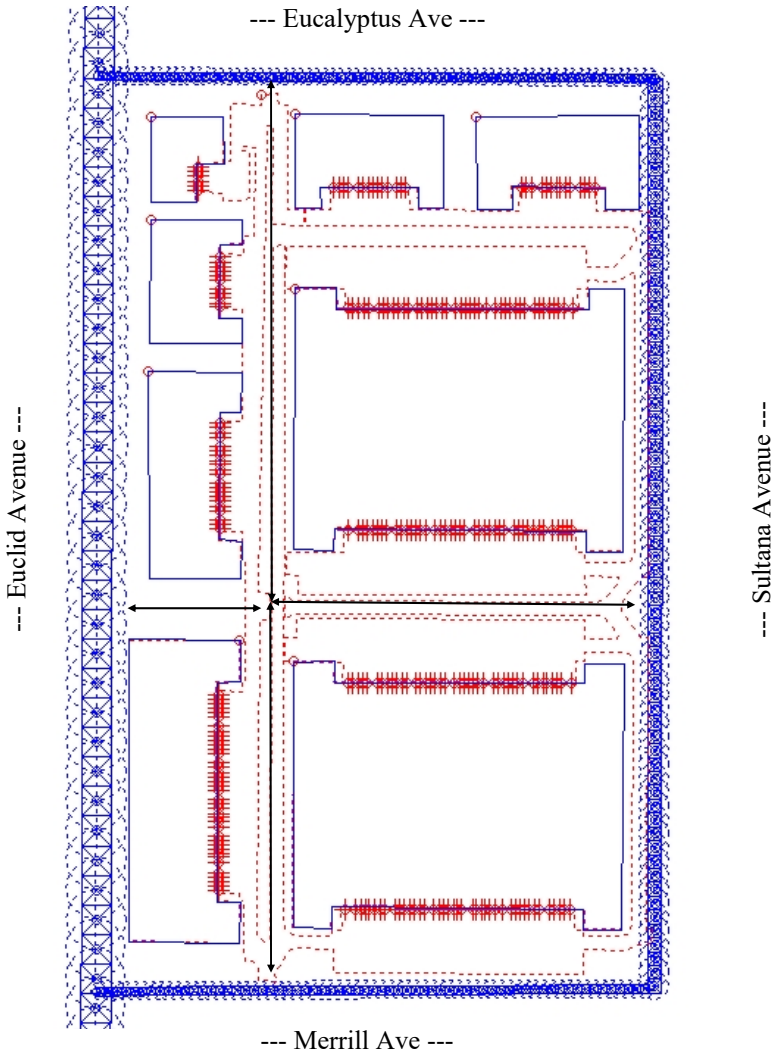
EMFAC 2017 Output
for Health Risk Analysis

calendar_year	season_month	sub_area	vehicle_class	fuel	temperature	relative_humidity	process	speed_time	pollutant	emission_rate
2022	Annual	San Bernardino (SC)	HHDT	Dsl	78	65	RUNEX	5	PM10	4.51E-02
2022	Annual	San Bernardino (SC)	HHDT	Dsl	78	65	RUNEX	45	PM10	2.24E-02
2022	Annual	San Bernardino (SC)	MHDT	Dsl	78	65	RUNEX	5	PM10	5.81E-02
2022	Annual	San Bernardino (SC)	MHDT	Dsl	78	65	RUNEX	45	PM10	3.28E-02
2022	Annual	San Bernardino (SC)	HHDT	Dsl			IDLEX		PM10	1.71E-02
2022	Annual	San Bernardino (SC)	HHDT	Dsl			PMTW		PM10	3.60E-02
2022	Annual	San Bernardino (SC)	HHDT	Dsl			PMBW		PM10	6.17E-02
2022	Annual	San Bernardino (SC)	MHDT	Dsl			IDLEX		PM10	1.25E-01
2022	Annual	San Bernardino (SC)	MHDT	Dsl			PMTW		PM10	1.20E-02
2022	Annual	San Bernardino (SC)	MHDT	Dsl			PMBW		PM10	1.30E-01

Ontario Business Park Specific Plan
Operation 24 hours per day, 7 days per week

Phase 1 - Industrial Warehousing Operations
Heavy-Heavy Duty Trucks: 150 truck per day
Medium-Heavy Duty Trucks: 107 trucks per day
Heavy-Heavy Duty Trucks with TRUs: 37 truck per day
Medium-Heavy Duty Trucks with TRUs: 32 trucks per day
Phase 2 - Business Park Operations
Heavy-Heavy Duty Trucks: 45 truck per day
Medium-Heavy Duty Trucks: 27 trucks per day

Diesel-Powered Off-road Equipment: 3 yard trucks operating 4 hours per day

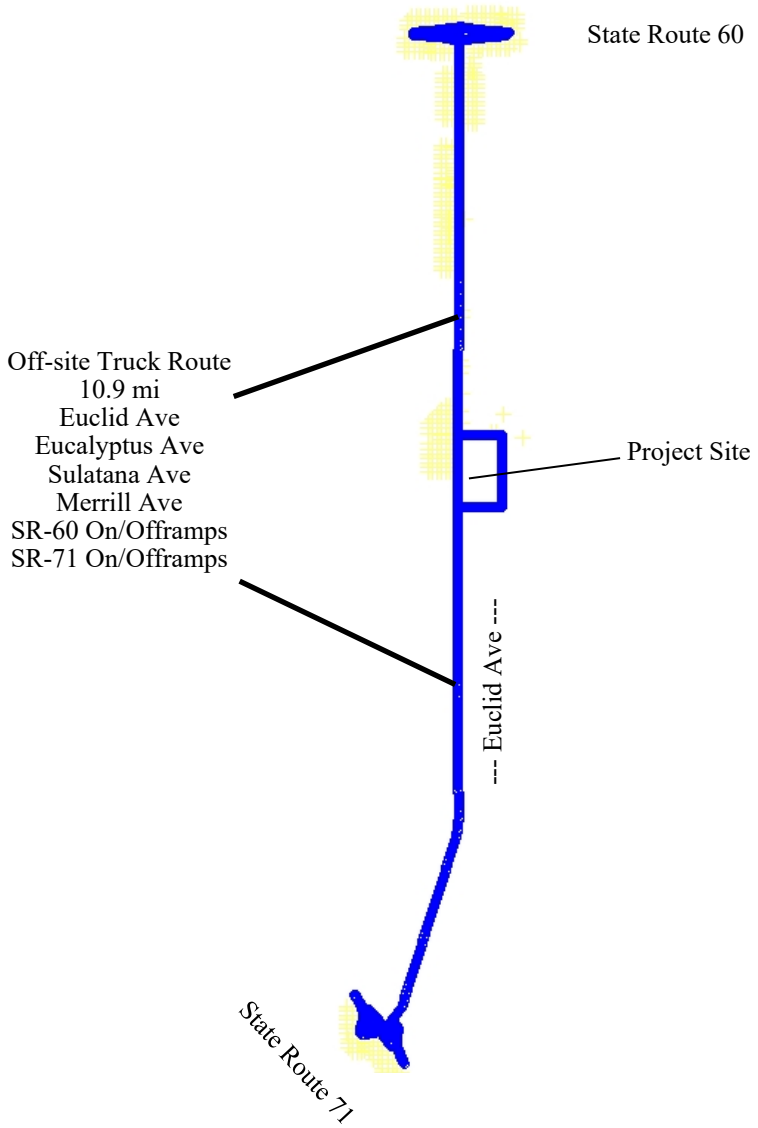


269 truck bays: depicted as red points at truck docks

- Release height of 4.15 m and initial vertical dimension (δy) of 1.93 m is based upon California Air Resources Board's "Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles" (2000).

Modeled Truck Route
Operation 24 hours per day, 7 days per week

On-site Ingress/Egress Distance - Phase 1: 0.61 mile
On-site Ingress/Egress Distance - Phase 2: 0.56 mile
Off-site Ingress/Egress Distance: 10.9 mile



- Release height of 4.15 m and initial vertical dimension (δy) of 1.93 m is based upon California Air Resources Board's "Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles" (2000).

Appendix C. Construction Air Dispersion Model Output

Appendix

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Model Output - Construction HRA
Unit Emission Rates (1 g/s)

```
*** AERMOD - VERSION  18081 ***   *** Construction HRA                                                    ***        08/13/19
*** AERMET - VERSION  16216 ***   *** City of Ontario                                                     ***        16:40:58
                                                                                                                     PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

**Model Is Setup For Calculation of Average CONCentration Values.

  --  DEPOSITION LOGIC  --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
**Model Uses NO WET DEPLETION.  WETDPLT  =  F

**Model Uses URBAN Dispersion Algorithm for the SBL for   123 Source(s),
  for Total of    1 Urban Area(s):
  Urban Population =   2035210.0 ;  Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
        6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
        ADJ_U*   - Use ADJ_U* option for SBL in AERMET
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Accepts FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of:  OTHER

**Model Calculates PERIOD Averages Only

**This Run Includes:    123 Source(s);       5 Source Group(s); and     102 Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:    120 VOLUME source(s)
                and:      3 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with      0 line(s)


**Model Set To Continue RUNning After the Setup Testing.
```

Model Output - Construction HRA
Unit Emission Rates (1 g/s)

```
**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   198.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.7 MB of RAM.

**Input Runstream File:          aermod.inp
**Output Print File:             aermod.out

**Detailed Error/Message File:   ONT05_50M.err
**File for Summary of Results:   ONT05_50M.sum
```

Model Output - Construction HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000261	0	0.83333E-02	440354.5	3761265.3	202.0	4.15	3.26	1.93	YES	HRDOW
L0000262	0	0.83333E-02	440347.5	3761265.3	202.0	4.15	3.26	1.93	YES	HRDOW
L0000263	0	0.83333E-02	440340.5	3761265.3	202.0	4.15	3.26	1.93	YES	HRDOW
L0000264	0	0.83333E-02	440333.5	3761265.3	202.0	4.15	3.26	1.93	YES	HRDOW
L0000265	0	0.83333E-02	440326.5	3761265.2	202.0	4.15	3.26	1.93	YES	HRDOW
L0000266	0	0.83333E-02	440319.5	3761265.2	202.0	4.15	3.26	1.93	YES	HRDOW
L0000267	0	0.83333E-02	440312.5	3761265.2	202.0	4.15	3.26	1.93	YES	HRDOW
L0000268	0	0.83333E-02	440305.5	3761265.2	202.0	4.15	3.26	1.93	YES	HRDOW
L0000269	0	0.83333E-02	440298.5	3761265.2	202.0	4.15	3.26	1.93	YES	HRDOW
L0000270	0	0.83333E-02	440291.5	3761265.1	202.0	4.15	3.26	1.93	YES	HRDOW
L0000271	0	0.83333E-02	440284.5	3761265.1	202.0	4.15	3.26	1.93	YES	HRDOW
L0000272	0	0.83333E-02	440277.5	3761265.1	202.0	4.15	3.26	1.93	YES	HRDOW
L0000273	0	0.83333E-02	440270.5	3761265.1	202.0	4.15	3.26	1.93	YES	HRDOW
L0000274	0	0.83333E-02	440263.5	3761265.1	202.0	4.15	3.26	1.93	YES	HRDOW
L0000275	0	0.83333E-02	440256.5	3761265.0	202.0	4.15	3.26	1.93	YES	HRDOW
L0000276	0	0.83333E-02	440249.5	3761265.0	202.0	4.15	3.26	1.93	YES	HRDOW
L0000277	0	0.83333E-02	440242.5	3761265.0	202.0	4.15	3.26	1.93	YES	HRDOW
L0000278	0	0.83333E-02	440235.5	3761265.0	202.0	4.15	3.26	1.93	YES	HRDOW
L0000279	0	0.83333E-02	440228.5	3761264.9	202.0	4.15	3.26	1.93	YES	HRDOW
L0000280	0	0.83333E-02	440221.5	3761264.9	202.0	4.15	3.26	1.93	YES	HRDOW
L0000281	0	0.83333E-02	440214.5	3761264.9	202.0	4.15	3.26	1.93	YES	HRDOW
L0000282	0	0.83333E-02	440207.5	3761264.9	202.0	4.15	3.26	1.93	YES	HRDOW
L0000283	0	0.83333E-02	440200.5	3761264.9	202.0	4.15	3.26	1.93	YES	HRDOW
L0000284	0	0.83333E-02	440193.5	3761264.8	202.0	4.15	3.26	1.93	YES	HRDOW
L0000285	0	0.83333E-02	440186.5	3761264.8	202.0	4.15	3.26	1.93	YES	HRDOW
L0000286	0	0.83333E-02	440179.5	3761264.8	202.0	4.15	3.26	1.93	YES	HRDOW
L0000287	0	0.83333E-02	440172.5	3761264.8	202.0	4.15	3.26	1.93	YES	HRDOW
L0000288	0	0.83333E-02	440165.5	3761264.7	202.0	4.15	3.26	1.93	YES	HRDOW
L0000289	0	0.83333E-02	440158.5	3761264.7	202.0	4.15	3.26	1.93	YES	HRDOW
L0000290	0	0.83333E-02	440151.5	3761264.7	202.0	4.15	3.26	1.93	YES	HRDOW
L0000291	0	0.83333E-02	440144.5	3761264.7	202.0	4.15	3.26	1.93	YES	HRDOW
L0000292	0	0.83333E-02	440137.5	3761264.7	202.0	4.15	3.26	1.93	YES	HRDOW
L0000293	0	0.83333E-02	440130.5	3761264.6	202.0	4.15	3.26	1.93	YES	HRDOW
L0000294	0	0.83333E-02	440123.5	3761264.6	202.0	4.15	3.26	1.93	YES	HRDOW
L0000295	0	0.83333E-02	440116.5	3761264.6	202.0	4.15	3.26	1.93	YES	HRDOW
L0000296	0	0.83333E-02	440109.5	3761264.6	202.0	4.15	3.26	1.93	YES	HRDOW
L0000297	0	0.83333E-02	440102.5	3761264.6	202.0	4.15	3.26	1.93	YES	HRDOW
L0000298	0	0.83333E-02	440095.5	3761264.5	202.0	4.15	3.26	1.93	YES	HRDOW

Model Output - Construction HRA
Unit Emission Rates (1 g/s)

L0000299	0	0.83333E-02	440088.5	3761264.5	202.0	4.15	3.26	1.93	YES	HRDOW
L0000300	0	0.83333E-02	440081.5	3761264.5	202.0	4.15	3.26	1.93	YES	HRDOW
L0000301	0	0.83333E-02	440074.5	3761264.5	202.0	4.15	3.26	1.93	YES	HRDOW
L0000302	0	0.83333E-02	440067.5	3761264.4	202.0	4.15	3.26	1.93	YES	HRDOW
L0000303	0	0.83333E-02	440060.5	3761264.4	202.0	4.15	3.26	1.93	YES	HRDOW
L0000304	0	0.83333E-02	440053.5	3761264.4	202.0	4.15	3.26	1.93	YES	HRDOW
L0000305	0	0.83333E-02	440046.5	3761264.4	202.0	4.15	3.26	1.93	YES	HRDOW
L0000306	0	0.83333E-02	440039.5	3761264.4	202.0	4.15	3.26	1.93	YES	HRDOW
L0000307	0	0.83333E-02	440032.5	3761264.3	202.0	4.15	3.26	1.93	YES	HRDOW
L0000308	0	0.83333E-02	440025.5	3761264.3	202.0	4.15	3.26	1.93	YES	HRDOW
L0000309	0	0.83333E-02	440018.5	3761264.3	202.0	4.15	3.26	1.93	YES	HRDOW
L0000310	0	0.83333E-02	440011.5	3761264.3	202.0	4.15	3.26	1.93	YES	HRDOW
L0000311	0	0.83333E-02	440004.5	3761264.2	202.0	4.15	3.26	1.93	YES	HRDOW
L0000312	0	0.83333E-02	439997.5	3761264.2	202.0	4.15	3.26	1.93	YES	HRDOW
L0000313	0	0.83333E-02	439990.5	3761264.2	202.0	4.15	3.26	1.93	YES	HRDOW
L0000314	0	0.83333E-02	439983.5	3761264.2	202.0	4.15	3.26	1.93	YES	HRDOW
L0000315	0	0.83333E-02	439976.5	3761264.2	202.0	4.15	3.26	1.93	YES	HRDOW
L0000316	0	0.83333E-02	439969.5	3761264.1	202.0	4.15	3.26	1.93	YES	HRDOW
L0000317	0	0.83333E-02	439962.5	3761264.1	202.0	4.15	3.26	1.93	YES	HRDOW
L0000318	0	0.83333E-02	439955.5	3761264.1	202.0	4.15	3.26	1.93	YES	HRDOW
L0000319	0	0.83333E-02	439948.5	3761264.1	202.0	4.15	3.26	1.93	YES	HRDOW
L0000320	0	0.83333E-02	439941.5	3761264.1	202.0	4.15	3.26	1.93	YES	HRDOW
L0000321	0	0.83333E-02	439934.5	3761264.0	202.0	4.15	3.26	1.93	YES	HRDOW
L0000322	0	0.83333E-02	439927.5	3761264.0	202.0	4.15	3.26	1.93	YES	HRDOW
L0000323	0	0.83333E-02	439920.5	3761264.0	202.0	4.15	3.26	1.93	YES	HRDOW
L0000324	0	0.83333E-02	439913.5	3761264.0	202.0	4.15	3.26	1.93	YES	HRDOW
L0000325	0	0.83333E-02	439906.5	3761263.9	201.9	4.15	3.26	1.93	YES	HRDOW
L0000326	0	0.83333E-02	439899.5	3761263.9	201.9	4.15	3.26	1.93	YES	HRDOW
L0000327	0	0.83333E-02	439893.8	3761558.3	205.0	4.15	12.09	1.93	YES	HRDOW
L0000328	0	0.83333E-02	439893.8	3761532.3	204.9	4.15	12.09	1.93	YES	HRDOW
L0000329	0	0.83333E-02	439893.9	3761506.3	204.0	4.15	12.09	1.93	YES	HRDOW
L0000330	0	0.83333E-02	439894.0	3761480.3	204.0	4.15	12.09	1.93	YES	HRDOW
L0000331	0	0.83333E-02	439894.1	3761454.3	204.0	4.15	12.09	1.93	YES	HRDOW
L0000332	0	0.83333E-02	439894.2	3761428.3	203.4	4.15	12.09	1.93	YES	HRDOW
L0000333	0	0.83333E-02	439894.2	3761402.3	203.0	4.15	12.09	1.93	YES	HRDOW
L0000334	0	0.83333E-02	439894.3	3761376.3	203.0	4.15	12.09	1.93	YES	HRDOW
L0000335	0	0.83333E-02	439894.4	3761350.3	202.8	4.15	12.09	1.93	YES	HRDOW
L0000336	0	0.83333E-02	439894.5	3761324.3	202.0	4.15	12.09	1.93	YES	HRDOW
L0000337	0	0.83333E-02	439894.5	3761298.3	202.0	4.15	12.09	1.93	YES	HRDOW
L0000338	0	0.83333E-02	439894.6	3761272.3	202.0	4.15	12.09	1.93	YES	HRDOW
L0000339	0	0.83333E-02	439894.7	3761246.3	201.3	4.15	12.09	1.93	YES	HRDOW
L0000340	0	0.83333E-02	439894.8	3761220.3	201.0	4.15	12.09	1.93	YES	HRDOW

Model Output - Construction HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000341	0	0.83333E-02	439894.9	3761194.3	201.0	4.15	12.09	1.93	YES	HRDOW
L0000342	0	0.83333E-02	439894.9	3761168.3	201.0	4.15	12.09	1.93	YES	HRDOW
L0000343	0	0.83333E-02	439895.0	3761142.3	200.7	4.15	12.09	1.93	YES	HRDOW
L0000344	0	0.83333E-02	439895.1	3761116.3	200.0	4.15	12.09	1.93	YES	HRDOW
L0000345	0	0.83333E-02	439895.2	3761090.3	200.0	4.15	12.09	1.93	YES	HRDOW
L0000346	0	0.83333E-02	439895.2	3761064.3	199.3	4.15	12.09	1.93	YES	HRDOW
L0000347	0	0.83333E-02	439895.3	3761038.3	199.0	4.15	12.09	1.93	YES	HRDOW
L0000348	0	0.83333E-02	439895.4	3761012.3	199.0	4.15	12.09	1.93	YES	HRDOW
L0000349	0	0.83333E-02	439895.5	3760986.3	198.7	4.15	12.09	1.93	YES	HRDOW
L0000350	0	0.83333E-02	439895.5	3760960.3	198.0	4.15	12.09	1.93	YES	HRDOW
L0000351	0	0.83333E-02	439895.6	3760934.3	198.0	4.15	12.09	1.93	YES	HRDOW
L0000352	0	0.83333E-02	439895.7	3760908.3	198.0	4.15	12.09	1.93	YES	HRDOW
L0000353	0	0.83333E-02	439895.8	3760882.3	197.2	4.15	12.09	1.93	YES	HRDOW
L0000354	0	0.83333E-02	439895.9	3760856.3	197.0	4.15	12.09	1.93	YES	HRDOW
L0000355	0	0.83333E-02	439895.9	3760830.3	196.9	4.15	12.09	1.93	YES	HRDOW
L0000356	0	0.83333E-02	439896.0	3760804.3	196.5	4.15	12.09	1.93	YES	HRDOW
L0000357	0	0.83333E-02	439896.1	3760778.3	196.0	4.15	12.09	1.93	YES	HRDOW
L0000358	0	0.83333E-02	439896.2	3760752.3	195.9	4.15	12.09	1.93	YES	HRDOW
L0000359	0	0.83333E-02	439896.2	3760726.3	195.0	4.15	12.09	1.93	YES	HRDOW
L0000360	0	0.83333E-02	439896.3	3760700.3	195.0	4.15	12.09	1.93	YES	HRDOW
L0000361	0	0.83333E-02	439896.4	3760674.3	195.0	4.15	12.09	1.93	YES	HRDOW
L0000362	0	0.83333E-02	439896.5	3760648.3	195.0	4.15	12.09	1.93	YES	HRDOW
L0000363	0	0.83333E-02	439896.5	3760622.3	194.5	4.15	12.09	1.93	YES	HRDOW
L0000364	0	0.83333E-02	439896.6	3760596.3	194.0	4.15	12.09	1.93	YES	HRDOW
L0000365	0	0.83333E-02	439896.7	3760570.3	194.0	4.15	12.09	1.93	YES	HRDOW
L0000366	0	0.83333E-02	439896.8	3760544.3	194.0	4.15	12.09	1.93	YES	HRDOW
L0000367	0	0.83333E-02	439896.9	3760518.3	194.0	4.15	12.09	1.93	YES	HRDOW
L0000368	0	0.83333E-02	439896.9	3760492.3	193.2	4.15	12.09	1.93	YES	HRDOW
L0000369	0	0.83333E-02	439897.0	3760466.3	193.0	4.15	12.09	1.93	YES	HRDOW
L0000370	0	0.83333E-02	439897.1	3760440.3	193.0	4.15	12.09	1.93	YES	HRDOW
L0000371	0	0.83333E-02	439897.2	3760414.3	193.0	4.15	12.09	1.93	YES	HRDOW
L0000372	0	0.83333E-02	439897.2	3760388.3	192.7	4.15	12.09	1.93	YES	HRDOW
L0000373	0	0.83333E-02	439897.3	3760362.3	192.0	4.15	12.09	1.93	YES	HRDOW
L0000374	0	0.83333E-02	439897.4	3760336.3	192.0	4.15	12.09	1.93	YES	HRDOW
L0000375	0	0.83333E-02	439897.5	3760310.3	192.0	4.15	12.09	1.93	YES	HRDOW
L0000376	0	0.83333E-02	439897.6	3760284.3	192.0	4.15	12.09	1.93	YES	HRDOW
L0000377	0	0.83333E-02	439897.6	3760258.3	191.4	4.15	12.09	1.93	YES	HRDOW
L0000378	0	0.83333E-02	439897.7	3760232.3	191.0	4.15	12.09	1.93	YES	HRDOW
L0000379	0	0.83333E-02	439897.8	3760206.3	191.0	4.15	12.09	1.93	YES	HRDOW
L0000380	0	0.83333E-02	439897.9	3760180.3	191.0	4.15	12.09	1.93	YES	HRDOW

Model Output - Construction HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
PAREA2	0	0.20780E-04	439886.3	3760019.1	190.0	4.15	17	1.93	YES	HRDOW
PAREA3	0	0.37534E-05	440045.6	3761133.9	200.6	4.15	6	1.93	YES	HRDOW
PAREA4	0	0.93544E-05	440045.6	3761134.3	200.6	4.15	7	1.93	YES	HRDOW

Model Output - Construction HRA
Unit Emission Rates (1 g/s)

```
*** AERMOD - VERSION  18081 ***   *** Construction HRA                                                    ***        08/13/19
*** AERMET - VERSION  16216 ***   *** City of Ontario                                                     ***        16:40:58
                                                                                                                      PAGE   6
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID                                             SOURCE IDs
-----------                                             ----------


 PAREA2     PAREA2      ,
 PAREA3     PAREA3      ,
 PAREA4     PAREA4      ,

 SLINE1     L0000261    , L0000262    , L0000263    , L0000264    , L0000265    , L0000266    , L0000267    , L0000268    ,
            L0000269    , L0000270    , L0000271    , L0000272    , L0000273    , L0000274    , L0000275    , L0000276    ,
            L0000277    , L0000278    , L0000279    , L0000280    , L0000281    , L0000282    , L0000283    , L0000284    ,
            L0000285    , L0000286    , L0000287    , L0000288    , L0000289    , L0000290    , L0000291    , L0000292    ,
            L0000293    , L0000294    , L0000295    , L0000296    , L0000297    , L0000298    , L0000299    , L0000300    ,
            L0000301    , L0000302    , L0000303    , L0000304    , L0000305    , L0000306    , L0000307    , L0000308    ,
            L0000309    , L0000310    , L0000311    , L0000312    , L0000313    , L0000314    , L0000315    , L0000316    ,
            L0000317    , L0000318    , L0000319    , L0000320    , L0000321    , L0000322    , L0000323    , L0000324    ,
            L0000325    , L0000326    , L0000327    , L0000328    , L0000329    , L0000330    , L0000331    , L0000332    ,
            L0000333    , L0000334    , L0000335    , L0000336    , L0000337    , L0000338    , L0000339    , L0000340    ,
            L0000341    , L0000342    , L0000343    , L0000344    , L0000345    , L0000346    , L0000347    , L0000348    ,
            L0000349    , L0000350    , L0000351    , L0000352    , L0000353    , L0000354    , L0000355    , L0000356    ,
            L0000357    , L0000358    , L0000359    , L0000360    , L0000361    , L0000362    , L0000363    , L0000364    ,
            L0000365    , L0000366    , L0000367    , L0000368    , L0000369    , L0000370    , L0000371    , L0000372    ,
            L0000373    , L0000374    , L0000375    , L0000376    , L0000377    , L0000378    , L0000379    , L0000380    ,

ALL         L0000261    , L0000262    , L0000263    , L0000264    , L0000265    , L0000266    , L0000267    , L0000268    ,
            L0000269    , L0000270    , L0000271    , L0000272    , L0000273    , L0000274    , L0000275    , L0000276    ,
            L0000277    , L0000278    , L0000279    , L0000280    , L0000281    , L0000282    , L0000283    , L0000284    ,
            L0000285    , L0000286    , L0000287    , L0000288    , L0000289    , L0000290    , L0000291    , L0000292    ,
            L0000293    , L0000294    , L0000295    , L0000296    , L0000297    , L0000298    , L0000299    , L0000300    ,
            L0000301    , L0000302    , L0000303    , L0000304    , L0000305    , L0000306    , L0000307    , L0000308    ,
            L0000309    , L0000310    , L0000311    , L0000312    , L0000313    , L0000314    , L0000315    , L0000316    ,
            L0000317    , L0000318    , L0000319    , L0000320    , L0000321    , L0000322    , L0000323    , L0000324    ,
            L0000325    , L0000326    , L0000327    , L0000328    , L0000329    , L0000330    , L0000331    , L0000332    ,
            L0000333    , L0000334    , L0000335    , L0000336    , L0000337    , L0000338    , L0000339    , L0000340    ,
            L0000341    , L0000342    , L0000343    , L0000344    , L0000345    , L0000346    , L0000347    , L0000348    ,
            L0000349    , L0000350    , L0000351    , L0000352    , L0000353    , L0000354    , L0000355    , L0000356    ,
            L0000357    , L0000358    , L0000359    , L0000360    , L0000361    , L0000362    , L0000363    , L0000364    ,
            L0000365    , L0000366    , L0000367    , L0000368    , L0000369    , L0000370    , L0000371    , L0000372    ,
            L0000373    , L0000374    , L0000375    , L0000376    , L0000377    , L0000378    , L0000379    , L0000380    ,
            PAREA2      , PAREA3      , PAREA4      ,
```

Model Output - Construction HRA
Unit Emission Rates (1 g/s)

```
*** AERMOD - VERSION  18081 ***   *** Construction HRA                                                    ***        08/13/19
*** AERMET - VERSION  16216 ***   *** City of Ontario                                                     ***        16:40:58
                                                                                                                      PAGE   8
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                        *** SOURCE IDs DEFINED AS URBAN SOURCES ***

 URBAN ID   URBAN POP                                  SOURCE IDs
 --------   ---------                                  ----------

             2035210.   L0000261    , L0000262    , L0000263    , L0000264    , L0000265    , L0000266    , L0000267    ,
L0000268    ,

            L0000269    , L0000270    , L0000271    , L0000272    , L0000273    , L0000274    , L0000275    , L0000276    ,

            L0000277    , L0000278    , L0000279    , L0000280    , L0000281    , L0000282    , L0000283    , L0000284    ,

            L0000285    , L0000286    , L0000287    , L0000288    , L0000289    , L0000290    , L0000291    , L0000292    ,

            L0000293    , L0000294    , L0000295    , L0000296    , L0000297    , L0000298    , L0000299    , L0000300    ,

            L0000301    , L0000302    , L0000303    , L0000304    , L0000305    , L0000306    , L0000307    , L0000308    ,

            L0000309    , L0000310    , L0000311    , L0000312    , L0000313    , L0000314    , L0000315    , L0000316    ,

            L0000317    , L0000318    , L0000319    , L0000320    , L0000321    , L0000322    , L0000323    , L0000324    ,

            L0000325    , L0000326    , L0000327    , L0000328    , L0000329    , L0000330    , L0000331    , L0000332    ,

            L0000333    , L0000334    , L0000335    , L0000336    , L0000337    , L0000338    , L0000339    , L0000340    ,

            L0000341    , L0000342    , L0000343    , L0000344    , L0000345    , L0000346    , L0000347    , L0000348    ,

            L0000349    , L0000350    , L0000351    , L0000352    , L0000353    , L0000354    , L0000355    , L0000356    ,

            L0000357    , L0000358    , L0000359    , L0000360    , L0000361    , L0000362    , L0000363    , L0000364    ,

            L0000365    , L0000366    , L0000367    , L0000368    , L0000369    , L0000370    , L0000371    , L0000372    ,

            L0000373    , L0000374    , L0000375    , L0000376    , L0000377    , L0000378    , L0000379    , L0000380    ,

            PAREA2      , PAREA3      , PAREA4      ,
```

Model Output - Construction HRA
Unit Emission Rates (1 g/s)

```
*** AERMOD - VERSION  18081 ***   *** Construction HRA                                                    ***        08/13/19
*** AERMET - VERSION  16216 ***   *** City of Ontario                                                     ***        16:40:58
                                                                                                                     PAGE   9
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000261  through  L0000380  ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .0000E+00   13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

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*** AERMOD - VERSION  18081 ***   *** Construction HRA                                                    ***        08/13/19
*** AERMET - VERSION  16216 ***   *** City of Ontario                                                     ***        16:40:58
                                                                                                                     PAGE 129
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = PAREA2       ; SOURCE TYPE = AREAPOLY :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .0000E+00   13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
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Model Output - Construction HRA
Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION  18081 ***   *** Construction HRA                                                    ***        08/13/19
*** AERMET - VERSION  16216 ***   *** City of Ontario                                                     ***        16:40:58
                                                                                                                     PAGE 130
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = PAREA3       ; SOURCE TYPE = AREAPOLY :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .0000E+00   13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
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*** AERMOD - VERSION  18081 ***   *** Construction HRA                                                    ***        08/13/19
*** AERMET - VERSION  16216 ***   *** City of Ontario                                                     ***        16:40:58
                                                                                                                     PAGE 131
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = PAREA4       ; SOURCE TYPE = AREAPOLY :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .0000E+00   13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

Model Output - Construction HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(440317.4,	3761294.8,	203.0,	203.0,	0.0);	(440261.0,	3761292.4,	202.9,	202.9,	0.0);
(440398.0,	3761494.0,	205.0,	205.0,	0.0);	(440614.9,	3761227.6,	202.7,	202.7,	0.0);
(439941.6,	3761385.8,	203.0,	203.0,	0.0);	(439929.0,	3761521.0,	205.0,	205.0,	0.0);
(439564.5,	3760857.0,	196.0,	196.0,	0.0);	(439614.5,	3760857.0,	196.0,	196.0,	0.0);
(439664.5,	3760857.0,	196.1,	196.1,	0.0);	(439714.5,	3760857.0,	196.4,	196.4,	0.0);
(439764.5,	3760857.0,	197.0,	197.0,	0.0);	(439814.5,	3760857.0,	197.0,	197.0,	0.0);
(439864.5,	3760857.0,	197.0,	197.0,	0.0);	(439564.5,	3760907.0,	197.0,	197.0,	0.0);
(439614.5,	3760907.0,	197.0,	197.0,	0.0);	(439664.5,	3760907.0,	197.0,	197.0,	0.0);
(439714.5,	3760907.0,	197.0,	197.0,	0.0);	(439764.5,	3760907.0,	197.0,	197.0,	0.0);
(439814.5,	3760907.0,	197.2,	197.2,	0.0);	(439864.5,	3760907.0,	198.0,	198.0,	0.0);
(439564.5,	3760957.0,	197.0,	197.0,	0.0);	(439614.5,	3760957.0,	197.3,	197.3,	0.0);
(439664.5,	3760957.0,	197.7,	197.7,	0.0);	(439714.5,	3760957.0,	197.7,	197.7,	0.0);
(439764.5,	3760957.0,	198.0,	198.0,	0.0);	(439814.5,	3760957.0,	198.0,	198.0,	0.0);
(439864.5,	3760957.0,	198.0,	198.0,	0.0);	(439564.5,	3761007.0,	198.0,	198.0,	0.0);
(439614.5,	3761007.0,	198.0,	198.0,	0.0);	(439664.5,	3761007.0,	198.1,	198.1,	0.0);
(439714.5,	3761007.0,	198.4,	198.4,	0.0);	(439764.5,	3761007.0,	198.4,	198.4,	0.0);
(439814.5,	3761007.0,	199.0,	199.0,	0.0);	(439864.5,	3761007.0,	199.0,	199.0,	0.0);
(439564.5,	3761057.0,	199.0,	199.0,	0.0);	(439614.5,	3761057.0,	199.0,	199.0,	0.0);
(439664.5,	3761057.0,	199.0,	199.0,	0.0);	(439714.5,	3761057.0,	199.0,	199.0,	0.0);
(439764.5,	3761057.0,	199.0,	199.0,	0.0);	(439814.5,	3761057.0,	199.0,	199.0,	0.0);
(439864.5,	3761057.0,	199.0,	199.0,	0.0);	(439564.5,	3761107.0,	199.0,	199.0,	0.0);
(439614.5,	3761107.0,	199.7,	199.7,	0.0);	(439664.5,	3761107.0,	199.7,	199.7,	0.0);
(439714.5,	3761107.0,	199.7,	199.7,	0.0);	(439764.5,	3761107.0,	199.8,	199.8,	0.0);
(439814.5,	3761107.0,	200.0,	200.0,	0.0);	(439864.5,	3761107.0,	200.0,	200.0,	0.0);
(439564.5,	3761157.0,	200.0,	200.0,	0.0);	(439614.5,	3761157.0,	200.2,	200.2,	0.0);
(439664.5,	3761157.0,	200.4,	200.4,	0.0);	(439714.5,	3761157.0,	200.4,	200.4,	0.0);
(439764.5,	3761157.0,	200.4,	200.4,	0.0);	(439814.5,	3761157.0,	200.4,	200.4,	0.0);
(439864.5,	3761157.0,	200.4,	200.4,	0.0);	(439714.5,	3761207.0,	201.0,	201.0,	0.0);
(439764.5,	3761207.0,	201.0,	201.0,	0.0);	(439814.5,	3761207.0,	201.0,	201.0,	0.0);
(439864.5,	3761207.0,	201.0,	201.0,	0.0);	(439714.5,	3761257.0,	201.7,	201.7,	0.0);
(439764.5,	3761257.0,	201.7,	201.7,	0.0);	(439814.5,	3761257.0,	201.7,	201.7,	0.0);
(439864.5,	3761257.0,	201.7,	201.7,	0.0);	(439565.6,	3761286.5,	201.7,	201.7,	0.0);
(439615.6,	3761286.5,	201.9,	201.9,	0.0);	(439665.6,	3761286.5,	202.0,	202.0,	0.0);
(439715.6,	3761286.5,	202.0,	202.0,	0.0);	(439765.6,	3761286.5,	202.0,	202.0,	0.0);
(439815.6,	3761286.5,	202.0,	202.0,	0.0);	(439865.6,	3761286.5,	202.0,	202.0,	0.0);
(439565.6,	3761336.5,	202.0,	202.0,	0.0);	(439615.6,	3761336.5,	202.0,	202.0,	0.0);
(439665.6,	3761336.5,	202.0,	202.0,	0.0);	(439715.6,	3761336.5,	202.0,	202.0,	0.0);
(439765.6,	3761336.5,	202.2,	202.2,	0.0);	(439815.6,	3761336.5,	202.3,	202.3,	0.0);
(439865.6,	3761336.5,	202.3,	202.3,	0.0);	(439565.6,	3761386.5,	202.0,	202.0,	0.0);
(439615.6,	3761386.5,	202.0,	202.0,	0.0);	(439665.6,	3761386.5,	203.0,	203.0,	0.0);
(439715.6,	3761386.5,	203.0,	203.0,	0.0);	(439765.6,	3761386.5,	203.0,	203.0,	0.0);
(439815.6,	3761386.5,	203.0,	203.0,	0.0);	(439865.6,	3761386.5,	203.0,	203.0,	0.0);

```
( 439615.6, 3761436.5,     203.0,     203.0,       0.0);         ( 439665.6, 3761436.5,     203.0,     203.0,       0.0);
( 439715.6, 3761436.5,     203.0,     203.0,       0.0);         ( 439765.6, 3761436.5,     203.0,     203.0,       0.0);
( 439815.6, 3761436.5,     203.7,     203.7,       0.0);         ( 439865.6, 3761436.5,     203.7,     203.7,       0.0);
```



```
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                   *** DISCRETE CARTESIAN RECEPTORS ***
                                 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

( 439665.6, 3761486.5,     203.3,     203.3,       0.0);         ( 439715.6, 3761486.5,     203.9,     203.9,       0.0);
( 439765.6, 3761486.5,     204.0,     204.0,       0.0);         ( 439815.6, 3761486.5,     204.0,     204.0,       0.0);
( 439865.6, 3761486.5,     204.0,     204.0,       0.0);         ( 439715.6, 3761536.5,     204.0,     204.0,       0.0);
( 439765.6, 3761536.5,     204.0,     204.0,       0.0);         ( 439815.6, 3761536.5,     205.0,     205.0,       0.0);
( 439865.6, 3761536.5,     205.0,     205.0,       0.0);         ( 439765.6, 3761586.5,     204.9,     204.9,       0.0);
( 439815.6, 3761586.5,     205.0,     205.0,       0.0);         ( 439865.6, 3761586.5,     205.0,     205.0,       0.0);
```

Model Output - Construction HRA
Unit Emission Rates (1 g/s)


```
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                    *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                  (1=YES; 0=NO)

          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1

              NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.


                                 *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                  (METERS/SEC)

                                      1.54,   3.09,   5.14,   8.23,  10.80,
```

Model Output - Construction HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\Met Data\KCNO_V9_ADJU_198m\KCNO_v9.SFC Met Version: 16216
Profile file: ..\Met Data\KCNO_V9_ADJU_198m\KCNO_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 3179 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-2.3	0.067	-9.000	-9.000	-999.	41.	11.2	0.09	0.74	1.00	0.73	313.	7.9	279.2	2.0
12	01	01	1	02	-2.7	0.070	-9.000	-9.000	-999.	44.	11.3	0.09	0.74	1.00	0.80	342.	7.9	280.9	2.0
12	01	01	1	03	-5.6	0.098	-9.000	-9.000	-999.	73.	14.7	0.09	0.74	1.00	1.20	9.	7.9	281.4	2.0
12	01	01	1	04	-3.5	0.078	-9.000	-9.000	-999.	52.	11.9	0.09	0.74	1.00	0.94	21.	7.9	282.0	2.0
12	01	01	1	05	-8.4	0.119	-9.000	-9.000	-999.	99.	18.1	0.09	0.74	1.00	1.45	353.	7.9	279.9	2.0
12	01	01	1	06	-7.6	0.113	-9.000	-9.000	-999.	91.	17.0	0.09	0.74	1.00	1.38	325.	7.9	277.5	2.0
12	01	01	1	07	-8.0	0.117	-9.000	-9.000	-999.	96.	17.7	0.09	0.74	1.00	1.42	313.	7.9	281.4	2.0
12	01	01	1	08	-5.2	0.101	-9.000	-9.000	-999.	77.	17.5	0.09	0.74	0.53	1.23	19.	7.9	280.9	2.0
12	01	01	1	09	23.2	0.117	0.267	0.012	29.	97.	-6.2	0.09	0.74	0.31	0.96	318.	7.9	287.5	2.0
12	01	01	1	10	65.2	0.101	0.531	0.014	82.	77.	-1.4	0.09	0.74	0.24	0.63	244.	7.9	291.4	2.0
12	01	01	1	11	95.5	0.162	0.778	0.008	176.	156.	-4.0	0.09	0.74	0.21	1.23	91.	7.9	296.4	2.0
12	01	01	1	12	110.8	0.197	1.018	0.005	338.	209.	-6.1	0.09	0.74	0.20	1.60	90.	7.9	299.9	2.0
12	01	01	1	13	110.5	0.229	1.184	0.005	534.	262.	-9.6	0.09	0.74	0.20	1.98	92.	7.9	302.0	2.0
12	01	01	1	14	94.6	0.185	1.215	0.005	674.	191.	-5.9	0.09	0.74	0.21	1.50	73.	7.9	303.1	2.0
12	01	01	1	15	68.6	0.187	1.184	0.005	858.	194.	-8.4	0.09	0.74	0.25	1.59	64.	7.9	303.1	2.0
12	01	01	1	16	24.9	0.255	0.862	0.005	911.	308.	-58.8	0.09	0.74	0.34	2.61	92.	7.9	300.4	2.0
12	01	01	1	17	-13.7	0.168	-9.000	-9.000	-999.	168.	31.1	0.09	0.74	0.62	1.98	107.	7.9	295.4	2.0
12	01	01	1	18	-26.7	0.279	-9.000	-9.000	-999.	354.	85.6	0.09	0.74	1.00	3.22	134.	7.9	291.4	2.0
12	01	01	1	19	-8.0	0.118	-9.000	-9.000	-999.	120.	18.2	0.09	0.74	1.00	1.43	37.	7.9	290.4	2.0
12	01	01	1	20	-7.7	0.115	-9.000	-9.000	-999.	94.	17.6	0.09	0.74	1.00	1.40	49.	7.9	287.0	2.0
12	01	01	1	21	-9.7	0.130	-9.000	-9.000	-999.	113.	20.2	0.09	0.74	1.00	1.57	26.	7.9	288.8	2.0
12	01	01	1	22	-4.8	0.090	-9.000	-9.000	-999.	65.	13.6	0.09	0.74	1.00	1.11	56.	7.9	284.9	2.0
12	01	01	1	23	-11.5	0.141	-9.000	-9.000	-999.	127.	21.9	0.09	0.74	1.00	1.69	36.	7.9	282.0	2.0
12	01	01	1	24	-16.9	0.172	-9.000	-9.000	-999.	171.	32.4	0.09	0.74	1.00	2.03	33.	7.9	279.9	2.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	7.9	1	313.	0.73	279.3	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

Model Output - Construction HRA
Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION  18081 ***   *** Construction HRA                                                    ***        08/13/19
*** AERMET - VERSION  16216 ***   *** City of Ontario                                                     ***        16:40:58
                                                                                                                     PAGE 136
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                          *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: PAREA2   ***
                              INCLUDING SOURCE(S):     PAREA2      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                  ** CONC OF OTHER    IN MICROGRAMS/M**3                          **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC	
440317.43	3761294.75	0.69231	440261.00	3761292.45	0.74327	←Offsite,North MER
440398.05	3761494.00	0.11728	440614.93	3761227.65	0.47954	
439941.64	3761385.83	0.17271	439929.00	3761521.00	0.06604	
439564.50	3760856.98	0.15211	439614.50	3760856.98	0.18840	
439664.50	3760856.98	0.24161	439714.50	3760856.98	0.32563	
439764.50	3760856.98	0.47262	439814.50	3760856.98	0.80777	
439864.50	3760856.98	2.00437	439564.50	3760906.98	0.14690	
439614.50	3760906.98	0.18215	439664.50	3760906.98	0.23417	
439714.50	3760906.98	0.31765	439764.50	3760906.98	0.46777	
439814.50	3760906.98	0.80210	439864.50	3760906.98	1.90904	
439564.50	3760956.98	0.14218	439614.50	3760956.98	0.17607	
439664.50	3760956.98	0.22617	439714.50	3760956.98	0.30792	
439764.50	3760956.98	0.45326	439814.50	3760956.98	0.78117	
439864.50	3760956.98	1.92041	439564.50	3761006.98	0.13549	
439614.50	3761006.98	0.16837	439664.50	3761006.98	0.21748	
439714.50	3761006.98	0.29628	439764.50	3761006.98	0.44138	
439814.50	3761006.98	0.75325	439864.50	3761006.98	1.82266	
439564.50	3761056.98	0.12804	439614.50	3761056.98	0.15888	
439664.50	3761056.98	0.20548	439714.50	3761056.98	0.28188	
439764.50	3761056.98	0.42307	439814.50	3761056.98	0.74077	
439864.50	3761056.98	1.81757	439564.50	3761106.98	0.12083	
439614.50	3761106.98	0.14861	439664.50	3761106.98	0.19196	
439714.50	3761106.98	0.26374	439764.50	3761106.98	0.39767	
439814.50	3761106.98	0.70007	439864.50	3761106.98	1.71492	
439564.50	3761156.98	0.11142	439614.50	3761156.98	0.13707	
439664.50	3761156.98	0.17600	439714.50	3761156.98	0.24128	
439764.50	3761156.98	0.36614	439814.50	3761156.98	0.65700	
439864.50	3761156.98	1.65516	439714.50	3761206.98	0.21300	
439764.50	3761206.98	0.32110	439814.50	3761206.98	0.57835	
439864.50	3761206.98	1.51507	439714.50	3761256.98	0.17654	
439764.50	3761256.98	0.25687	439814.50	3761256.98	0.44267	
439864.50	3761256.98	1.14658	439565.63	3761286.53	0.08195	
439615.63	3761286.53	0.09711	439665.63	3761286.53	0.11906	
439715.63	3761286.53	0.15368	439765.63	3761286.53	0.21388	
439815.63	3761286.53	0.33624	439865.63	3761286.53	0.66668	
439565.63	3761336.53	0.07046	439615.63	3761336.53	0.08143	
439665.63	3761336.53	0.09635	439715.63	3761336.53	0.11732	

439765.63	3761336.53	0.14797	439815.63	3761336.53	0.19210
439865.63	3761336.53	0.25046	439565.63	3761386.53	0.06066
439615.63	3761386.53	0.06827	439665.63	3761386.53	0.07720

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PAREA2 ***
INCLUDING SOURCE(S): PAREA2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439715.63	3761386.53	0.08904	439765.63	3761386.53	0.10386
439815.63	3761386.53	0.12107	439865.63	3761386.53	0.14103
439615.63	3761436.53	0.05722	439665.63	3761436.53	0.06325
439715.63	3761436.53	0.06993	439765.63	3761436.53	0.07733
439815.63	3761436.53	0.08503	439865.63	3761436.53	0.09559
439665.63	3761486.53	0.05240	439715.63	3761486.53	0.05605
439765.63	3761486.53	0.06016	439815.63	3761486.53	0.06524
439865.63	3761486.53	0.07177	439715.63	3761536.53	0.04648
439765.63	3761536.53	0.04918	439815.63	3761536.53	0.05235
439865.63	3761536.53	0.05687	439765.63	3761586.53	0.04128
439815.63	3761586.53	0.04398	439865.63	3761586.53	0.04729

Model Output - Construction HRA
Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION  18081 ***   *** Construction HRA                                                    ***        08/13/19
*** AERMET - VERSION  16216 ***   *** City of Ontario                                                     ***        16:40:58
                                                                                                                     PAGE 138
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                         *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: PAREA3   ***
                             INCLUDING SOURCE(S):     PAREA3      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                  ** CONC OF OTHER    IN MICROGRAMS/M**3                          **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC	
440317.43	3761294.75	0.19958	440261.00	3761292.45	0.18905	←Phase 1,North MER
440398.05	3761494.00	0.06308	440614.93	3761227.65	0.31384	
439941.64	3761385.83	0.07076	439929.00	3761521.00	0.04428	
439564.50	3760856.98	0.10868	439614.50	3760856.98	0.12731	
439664.50	3760856.98	0.15163	439714.50	3760856.98	0.18427	
439764.50	3760856.98	0.22958	439814.50	3760856.98	0.29475	
439864.50	3760856.98	0.39371	439564.50	3760906.98	0.10243	
439614.50	3760906.98	0.11909	439664.50	3760906.98	0.14044	
439714.50	3760906.98	0.16835	439764.50	3760906.98	0.20567	
439814.50	3760906.98	0.25705	439864.50	3760906.98	0.33070	
439564.50	3760956.98	0.09579	439614.50	3760956.98	0.11057	
439664.50	3760956.98	0.12925	439714.50	3760956.98	0.15325	
439764.50	3760956.98	0.18487	439814.50	3760956.98	0.22780	
439864.50	3760956.98	0.28925	439564.50	3761006.98	0.08897	
439614.50	3761006.98	0.10191	439664.50	3761006.98	0.11808	
439714.50	3761006.98	0.13867	439764.50	3761006.98	0.16558	
439814.50	3761006.98	0.20232	439864.50	3761006.98	0.25561	
439564.50	3761056.98	0.08199	439614.50	3761056.98	0.09314	
439664.50	3761056.98	0.10692	439714.50	3761056.98	0.12431	
439764.50	3761056.98	0.14695	439814.50	3761056.98	0.17785	
439864.50	3761056.98	0.22294	439564.50	3761106.98	0.07500	
439614.50	3761106.98	0.08441	439664.50	3761106.98	0.09590	
439714.50	3761106.98	0.11022	439764.50	3761106.98	0.12868	
439814.50	3761106.98	0.15360	439864.50	3761106.98	0.18942	
439564.50	3761156.98	0.06824	439614.50	3761156.98	0.07601	
439664.50	3761156.98	0.08535	439714.50	3761156.98	0.09681	
439764.50	3761156.98	0.11129	439814.50	3761156.98	0.13030	
439864.50	3761156.98	0.15648	439714.50	3761206.98	0.08462	
439764.50	3761206.98	0.09561	439814.50	3761206.98	0.10948	
439864.50	3761206.98	0.12745	439714.50	3761256.98	0.07366	
439764.50	3761256.98	0.08178	439814.50	3761256.98	0.09158	
439864.50	3761256.98	0.10348	439565.63	3761286.53	0.05291	
439615.63	3761286.53	0.05731	439665.63	3761286.53	0.06232	
439715.63	3761286.53	0.06814	439765.63	3761286.53	0.07493	
439815.63	3761286.53	0.08290	439865.63	3761286.53	0.09224	
439565.63	3761336.53	0.04802	439615.63	3761336.53	0.05156	
439665.63	3761336.53	0.05550	439715.63	3761336.53	0.05991	

439765.63	3761336.53	0.06482	439815.63	3761336.53	0.07031
439865.63	3761336.53	0.07647	439565.63	3761386.53	0.04378
439615.63	3761386.53	0.04659	439665.63	3761386.53	0.04940

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PAREA3 ***
INCLUDING SOURCE(S): PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439715.63	3761386.53	0.05268	439765.63	3761386.53	0.05625
439815.63	3761386.53	0.06007	439865.63	3761386.53	0.06412
439615.63	3761436.53	0.04206	439665.63	3761436.53	0.04437
439715.63	3761436.53	0.04681	439765.63	3761436.53	0.04936
439815.63	3761436.53	0.05182	439865.63	3761436.53	0.05449
439665.63	3761486.53	0.03995	439715.63	3761486.53	0.04163
439765.63	3761486.53	0.04340	439815.63	3761486.53	0.04519
439865.63	3761486.53	0.04697	439715.63	3761536.53	0.03734
439765.63	3761536.53	0.03860	439815.63	3761536.53	0.03966
439865.63	3761536.53	0.04085	439765.63	3761586.53	0.03444
439815.63	3761586.53	0.03525	439865.63	3761586.53	0.03607

Model Output - Construction HRA
Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION  18081 ***   *** Construction HRA                                                    ***        08/13/19
*** AERMET - VERSION  16216 ***   *** City of Ontario                                                     ***        16:40:58
                                                                                                                     PAGE 140
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                         *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: PAREA4   ***
                             INCLUDING SOURCE(S):     PAREA4      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                  ** CONC OF OTHER    IN MICROGRAMS/M**3                        **
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X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC	
440317.43	3761294.75	2.93666	440261.00	3761292.45	3.19993	← Phase 2,North MER
440398.05	3761494.00	0.29367	440614.93	3761227.65	0.72913	
439941.64	3761385.83	0.36361	439929.00	3761521.00	0.13778	
439564.50	3760856.98	0.16454	439614.50	3760856.98	0.20046	
439664.50	3760856.98	0.25069	439714.50	3760856.98	0.32480	
439764.50	3760856.98	0.44318	439814.50	3760856.98	0.65515	
439864.50	3760856.98	1.14106	439564.50	3760906.98	0.17327	
439614.50	3760906.98	0.21293	439664.50	3760906.98	0.26920	
439714.50	3760906.98	0.35333	439764.50	3760906.98	0.48893	
439814.50	3760906.98	0.73584	439864.50	3760906.98	1.30733	
439564.50	3760956.98	0.17910	439614.50	3760956.98	0.22133	
439664.50	3760956.98	0.28174	439714.50	3760956.98	0.37253	
439764.50	3760956.98	0.51999	439814.50	3760956.98	0.78702	
439864.50	3760956.98	1.38764	439564.50	3761006.98	0.18229	
439614.50	3761006.98	0.22581	439664.50	3761006.98	0.28824	
439714.50	3761006.98	0.38272	439764.50	3761006.98	0.53583	
439814.50	3761006.98	0.81546	439864.50	3761006.98	1.44790	
439564.50	3761056.98	0.18222	439614.50	3761056.98	0.22601	
439664.50	3761056.98	0.28889	439714.50	3761056.98	0.38406	
439764.50	3761056.98	0.53906	439814.50	3761056.98	0.82217	
439864.50	3761056.98	1.46895	439564.50	3761106.98	0.17842	
439614.50	3761106.98	0.22121	439664.50	3761106.98	0.28258	
439714.50	3761106.98	0.37559	439764.50	3761106.98	0.52787	
439814.50	3761106.98	0.80998	439864.50	3761106.98	1.47340	
439564.50	3761156.98	0.17062	439614.50	3761156.98	0.21080	
439664.50	3761156.98	0.26829	439714.50	3761156.98	0.35530	
439764.50	3761156.98	0.49819	439814.50	3761156.98	0.76656	
439864.50	3761156.98	1.42017	439714.50	3761206.98	0.32184	
439764.50	3761206.98	0.44604	439814.50	3761206.98	0.67965	
439864.50	3761206.98	1.26772	439714.50	3761256.98	0.27590	
439764.50	3761256.98	0.37065	439814.50	3761256.98	0.53902	
439864.50	3761256.98	0.92942	439565.63	3761286.53	0.13477	
439615.63	3761286.53	0.16129	439665.63	3761286.53	0.19722	
439715.63	3761286.53	0.24822	439765.63	3761286.53	0.32480	
439815.63	3761286.53	0.45106	439865.63	3761286.53	0.69502	
439565.63	3761336.53	0.11854	439615.63	3761336.53	0.13933	
439665.63	3761336.53	0.16632	439715.63	3761336.53	0.20223	

439765.63	3761336.53	0.25098	439815.63	3761336.53	0.31958
439865.63	3761336.53	0.41813	439565.63	3761386.53	0.10373
439615.63	3761386.53	0.11953	439665.63	3761386.53	0.13807

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PAREA4 ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439715.63	3761386.53	0.16224	439765.63	3761386.53	0.19255
439815.63	3761386.53	0.23034	439865.63	3761386.53	0.27648
439615.63	3761436.53	0.10189	439665.63	3761436.53	0.11577
439715.63	3761436.53	0.13214	439765.63	3761436.53	0.15124
439815.63	3761436.53	0.17213	439865.63	3761436.53	0.19685
439665.63	3761486.53	0.09750	439715.63	3761486.53	0.10809
439765.63	3761486.53	0.12011	439815.63	3761486.53	0.13335
439865.63	3761486.53	0.14796	439715.63	3761536.53	0.09007
439765.63	3761536.53	0.09798	439815.63	3761536.53	0.10568
439865.63	3761536.53	0.11478	439765.63	3761586.53	0.08086
439815.63	3761586.53	0.08633	439865.63	3761586.53	0.09234

Model Output - Construction HRA
Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION  18081 ***   *** Construction HRA                                                    ***        08/13/19
*** AERMET - VERSION  16216 ***   *** City of Ontario                                                     ***        16:40:58
                                                                                                                     PAGE 142
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                          *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SLINE1   ***
                              INCLUDING SOURCE(S):     L0000261    , L0000262    , L0000263    , L0000264    , L0000265    ,
               L0000266    , L0000267    , L0000268    , L0000269    , L0000270    , L0000271    , L0000272    , L0000273    ,
               L0000274    , L0000275    , L0000276    , L0000277    , L0000278    , L0000279    , L0000280    , L0000281    ,
               L0000282    , L0000283    , L0000284    , L0000285    , L0000286    , L0000287    , L0000288    ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                          **

      X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)   Y-COORD (M)        CONC
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        440317.43    3761294.75        8.26263                     440261.00    3761292.45        9.68303←HaulRoute,North MER
        440398.05    3761494.00        0.48480                     440614.93    3761227.65        0.42613
        439941.64    3761385.83        2.53299                     439929.00    3761521.00        2.30180
        439564.50    3760856.98        0.15770                     439614.50    3760856.98        0.18916
        439664.50    3760856.98        0.23339                     439714.50    3760856.98        0.30128
        439764.50    3760856.98        0.42008                     439814.50    3760856.98        0.69231
        439864.50    3760856.98        1.82054                     439564.50    3760906.98        0.16310
        439614.50    3760906.98        0.19614                     439664.50    3760906.98        0.24266
        439714.50    3760906.98        0.31337                     439764.50    3760906.98        0.43601
        439814.50    3760906.98        0.71260                     439864.50    3760906.98        1.84464
        439564.50    3760956.98        0.16924                     439614.50    3760956.98        0.20409
        439664.50    3760956.98        0.25331                     439714.50    3760956.98        0.32782
        439764.50    3760956.98        0.45536                     439814.50    3760956.98        0.73879
        439864.50    3760956.98        1.88801                     439564.50    3761006.98        0.17547
        439614.50    3761006.98        0.21301                     439664.50    3761006.98        0.26575
        439714.50    3761006.98        0.34536                     439764.50    3761006.98        0.48071
        439814.50    3761006.98        0.77291                     439864.50    3761006.98        1.94145
        439564.50    3761056.98        0.18196                     439614.50    3761056.98        0.22246
        439664.50    3761056.98        0.28001                     439714.50    3761056.98        0.36706
        439764.50    3761056.98        0.51332                     439814.50    3761056.98        0.82351
        439864.50    3761056.98        2.01020                     439564.50    3761106.98        0.18874
        439614.50    3761106.98        0.23229                     439664.50    3761106.98        0.29557
        439714.50    3761106.98        0.39246                     439764.50    3761106.98        0.55615
        439814.50    3761106.98        0.89521                     439864.50    3761106.98        2.13518
        439564.50    3761156.98        0.19399                     439614.50    3761156.98        0.24139
        439664.50    3761156.98        0.31122                     439714.50    3761156.98        0.42073
        439764.50    3761156.98        0.61037                     439814.50    3761156.98        1.00509
        439864.50    3761156.98        2.33911                     439714.50    3761206.98        0.44641
        439764.50    3761206.98        0.66931                     439814.50    3761206.98        1.16233
        439864.50    3761206.98        2.84780                     439714.50    3761256.98        0.45608
        439764.50    3761256.98        0.70122                     439814.50    3761256.98        1.29123
        439864.50    3761256.98        3.82627                     439565.63    3761286.53        0.19419
        439615.63    3761286.53        0.24550                     439665.63    3761286.53        0.32366
        439715.63    3761286.53        0.45331                     439765.63    3761286.53        0.69749
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439815.63	3761286.53	1.28020	439865.63	3761286.53	3.63762
439565.63	3761336.53	0.18624	439615.63	3761336.53	0.23430
439665.63	3761336.53	0.30666	439715.63	3761336.53	0.42378
439765.63	3761336.53	0.63460	439815.63	3761336.53	1.09362
439865.63	3761336.53	2.67498	439565.63	3761386.53	0.17504
439615.63	3761386.53	0.21804	439665.63	3761386.53	0.27997

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0000261 , L0000262 , L0000263 , L0000264 , L0000265 ,
L0000266 , L0000267 , L0000268 , L0000269 , L0000270 , L0000271 , L0000272 , L0000273 ,
L0000274 , L0000275 , L0000276 , L0000277 , L0000278 , L0000279 , L0000280 , L0000281 ,
L0000282 , L0000283 , L0000284 , L0000285 , L0000286 , L0000287 , L0000288 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439715.63	3761386.53	0.37959	439765.63	3761386.53	0.55368
439815.63	3761386.53	0.92473	439865.63	3761386.53	2.30386
439615.63	3761436.53	0.19786	439665.63	3761436.53	0.25163
439715.63	3761436.53	0.33535	439765.63	3761436.53	0.48168
439815.63	3761436.53	0.80126	439865.63	3761436.53	2.10463
439665.63	3761486.53	0.22132	439715.63	3761486.53	0.28847
439765.63	3761486.53	0.40932	439815.63	3761486.53	0.69431
439865.63	3761486.53	1.96414	439715.63	3761536.53	0.24342
439765.63	3761536.53	0.33646	439815.63	3761536.53	0.55554
439865.63	3761536.53	1.68167	439765.63	3761586.53	0.25715
439815.63	3761586.53	0.37592	439865.63	3761586.53	0.73288

Model Output - Construction HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000261 , L0000262 , L0000263 , L0000264 , L0000265 ,
L0000266 , L0000267 , L0000268 , L0000269 , L0000270 , L0000271 , L0000272 , L0000273 ,
L0000274 , L0000275 , L0000276 , L0000277 , L0000278 , L0000279 , L0000280 , L0000281 ,
L0000282 , L0000283 , L0000284 , L0000285 , L0000286 , L0000287 , L0000288 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440317.43	3761294.75	12.09118	440261.00	3761292.45	13.81528
440398.05	3761494.00	0.95883	440614.93	3761227.65	1.94864
439941.64	3761385.83	3.14008	439929.00	3761521.00	2.54991
439564.50	3760856.98	0.58303	439614.50	3760856.98	0.70533
439664.50	3760856.98	0.87733	439714.50	3760856.98	1.13598
439764.50	3760856.98	1.56546	439814.50	3760856.98	2.44998
439864.50	3760856.98	5.35968	439564.50	3760906.98	0.58569
439614.50	3760906.98	0.71032	439664.50	3760906.98	0.88647
439714.50	3760906.98	1.15269	439764.50	3760906.98	1.59838
439814.50	3760906.98	2.50759	439864.50	3760906.98	5.39170
439564.50	3760956.98	0.58631	439614.50	3760956.98	0.71206
439664.50	3760956.98	0.89046	439714.50	3760956.98	1.16152
439764.50	3760956.98	1.61348	439814.50	3760956.98	2.53478
439864.50	3760956.98	5.48531	439564.50	3761006.98	0.58222
439614.50	3761006.98	0.70910	439664.50	3761006.98	0.88955
439714.50	3761006.98	1.16303	439764.50	3761006.98	1.62350
439814.50	3761006.98	2.54395	439864.50	3761006.98	5.46763
439564.50	3761056.98	0.57421	439614.50	3761056.98	0.70050
439664.50	3761056.98	0.88130	439714.50	3761056.98	1.15732
439764.50	3761056.98	1.62240	439814.50	3761056.98	2.56430
439864.50	3761056.98	5.51966	439564.50	3761106.98	0.56299
439614.50	3761106.98	0.68651	439664.50	3761106.98	0.86600
439714.50	3761106.98	1.14201	439764.50	3761106.98	1.61037
439814.50	3761106.98	2.55886	439864.50	3761106.98	5.51292
439564.50	3761156.98	0.54426	439614.50	3761156.98	0.66527
439664.50	3761156.98	0.84086	439714.50	3761156.98	1.11412
439764.50	3761156.98	1.58599	439814.50	3761156.98	2.55894
439864.50	3761156.98	5.57093	439714.50	3761206.98	1.06586
439764.50	3761206.98	1.53206	439814.50	3761206.98	2.52981
439864.50	3761206.98	5.75803	439714.50	3761256.98	0.98217
439764.50	3761256.98	1.41052	439814.50	3761256.98	2.36450
439864.50	3761256.98	6.00576	439565.63	3761286.53	0.46382
439615.63	3761286.53	0.56121	439665.63	3761286.53	0.70226
439715.63	3761286.53	0.92334	439765.63	3761286.53	1.31110

439815.63	3761286.53	2.15041	439865.63	3761286.53	5.09157
439565.63	3761336.53	0.42327	439615.63	3761336.53	0.50662
439665.63	3761336.53	0.62483	439715.63	3761336.53	0.80325
439765.63	3761336.53	1.09836	439815.63	3761336.53	1.67562
439865.63	3761336.53	3.42005	439565.63	3761386.53	0.38322
439615.63	3761386.53	0.45242	439665.63	3761386.53	0.54464

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000261 , L0000262 , L0000263 , L0000264 , L0000265 ,
L0000266 , L0000267 , L0000268 , L0000269 , L0000270 , L0000271 , L0000272 , L0000273 ,
L0000274 , L0000275 , L0000276 , L0000277 , L0000278 , L0000279 , L0000280 , L0000281 ,
L0000282 , L0000283 , L0000284 , L0000285 , L0000286 , L0000287 , L0000288 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439715.63	3761386.53	0.68355	439765.63	3761386.53	0.90634
439815.63	3761386.53	1.33622	439865.63	3761386.53	2.78550
439615.63	3761436.53	0.39903	439665.63	3761436.53	0.47503
439715.63	3761436.53	0.58422	439765.63	3761436.53	0.75960
439815.63	3761436.53	1.11024	439865.63	3761436.53	2.45155
439665.63	3761486.53	0.41117	439715.63	3761486.53	0.49424
439765.63	3761486.53	0.63299	439815.63	3761486.53	0.93810
439865.63	3761486.53	2.23085	439715.63	3761536.53	0.41732
439765.63	3761536.53	0.52221	439815.63	3761536.53	0.75323
439865.63	3761536.53	1.89417	439765.63	3761586.53	0.41373
439815.63	3761586.53	0.54147	439865.63	3761586.53	0.90859

Model Output - Construction HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
PAREA2	1ST HIGHEST VALUE IS	2.00437	AT (439864.50, 3760856.98, 197.00, 197.00, 0.00)	DC	
OFFSITE	2ND HIGHEST VALUE IS	1.92041	AT (439864.50, 3760956.98, 198.00, 198.00, 0.00)	DC	
WORK	3RD HIGHEST VALUE IS	1.90904	AT (439864.50, 3760906.98, 198.00, 198.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	1.82266	AT (439864.50, 3761006.98, 199.00, 199.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	1.81757	AT (439864.50, 3761056.98, 199.02, 199.02, 0.00)	DC	
	6TH HIGHEST VALUE IS	1.71492	AT (439864.50, 3761106.98, 200.00, 200.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	1.65516	AT (439864.50, 3761156.98, 200.35, 200.35, 0.00)	DC	
	8TH HIGHEST VALUE IS	1.51507	AT (439864.50, 3761206.98, 201.00, 201.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	1.14658	AT (439864.50, 3761256.98, 201.69, 201.69, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.80777	AT (439814.50, 3760856.98, 197.00, 197.00, 0.00)	DC	
PAREA3	1ST HIGHEST VALUE IS	0.39371	AT (439864.50, 3760856.98, 197.00, 197.00, 0.00)	DC	
PHASE 1	2ND HIGHEST VALUE IS	0.33070	AT (439864.50, 3760906.98, 198.00, 198.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.31384	AT (440614.93, 3761227.65, 202.71, 202.71, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.29475	AT (439814.50, 3760856.98, 197.00, 197.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.28925	AT (439864.50, 3760956.98, 198.00, 198.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.25705	AT (439814.50, 3760906.98, 197.19, 197.19, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.25561	AT (439864.50, 3761006.98, 199.00, 199.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.22958	AT (439764.50, 3760856.98, 197.00, 197.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.22780	AT (439814.50, 3760956.98, 198.00, 198.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.22294	AT (439864.50, 3761056.98, 199.02, 199.02, 0.00)	DC	
PAREA4	1ST HIGHEST VALUE IS	3.19993	AT (440261.00, 3761292.45, 202.87, 202.87, 0.00)	DC	
PHASE 2	2ND HIGHEST VALUE IS	2.93666	AT (440317.43, 3761294.75, 202.95, 202.95, 0.00)	DC	
	3RD HIGHEST VALUE IS	1.47340	AT (439864.50, 3761106.98, 200.00, 200.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	1.46895	AT (439864.50, 3761056.98, 199.02, 199.02, 0.00)	DC	
	5TH HIGHEST VALUE IS	1.44790	AT (439864.50, 3761006.98, 199.00, 199.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	1.42017	AT (439864.50, 3761156.98, 200.35, 200.35, 0.00)	DC	
	7TH HIGHEST VALUE IS	1.38764	AT (439864.50, 3760956.98, 198.00, 198.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	1.30733	AT (439864.50, 3760906.98, 198.00, 198.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	1.26772	AT (439864.50, 3761206.98, 201.00, 201.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	1.14106	AT (439864.50, 3760856.98, 197.00, 197.00, 0.00)	DC	
SLINE1	1ST HIGHEST VALUE IS	9.68303	AT (440261.00, 3761292.45, 202.87, 202.87, 0.00)	DC	
HAUL RTE	2ND HIGHEST VALUE IS	8.26263	AT (440317.43, 3761294.75, 202.95, 202.95, 0.00)	DC	
	3RD HIGHEST VALUE IS	3.82627	AT (439864.50, 3761256.98, 201.69, 201.69, 0.00)	DC	
	4TH HIGHEST VALUE IS	3.63762	AT (439865.63, 3761286.53, 202.00, 202.00, 0.00)	DC	

```
          5TH HIGHEST VALUE IS       2.84780 AT (  439864.50,  3761206.98,   201.00,   201.00,    0.00)  DC
          6TH HIGHEST VALUE IS       2.67498 AT (  439865.63,  3761336.53,   202.34,   202.34,    0.00)  DC
          7TH HIGHEST VALUE IS       2.53299 AT (  439941.64,  3761385.83,   203.00,   203.00,    0.00)  DC
          8TH HIGHEST VALUE IS       2.33911 AT (  439864.50,  3761156.98,   200.35,   200.35,    0.00)  DC
          9TH HIGHEST VALUE IS       2.30386 AT (  439865.63,  3761386.53,   203.00,   203.00,    0.00)  DC
         10TH HIGHEST VALUE IS       2.30180 AT (  439929.00,  3761521.00,   204.99,   204.99,    0.00)  DC
```

```
 *** AERMOD - VERSION  18081 ***   *** Construction HRA                                                       ***        08/13/19
 *** AERMET - VERSION  16216 ***   *** City of Ontario                                                        ***        16:40:58
                                                                                                                         PAGE 147
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                               *** THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS ***

                                           ** CONC OF OTHER    IN MICROGRAMS/M**3                          **

                                                                                                               NETWORK
GROUP ID                             AVERAGE CONC               RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

ALL       1ST HIGHEST VALUE IS      13.81528 AT (  440261.00,  3761292.45,   202.87,   202.87,    0.00)  DC  MER north of the site
          2ND HIGHEST VALUE IS      12.09118 AT (  440317.43,  3761294.75,   202.95,   202.95,    0.00)  DC
          3RD HIGHEST VALUE IS       6.00576 AT (  439864.50,  3761256.98,   201.69,   201.69,    0.00)  DC
          4TH HIGHEST VALUE IS       5.75803 AT (  439864.50,  3761206.98,   201.00,   201.00,    0.00)  DC
          5TH HIGHEST VALUE IS       5.57093 AT (  439864.50,  3761156.98,   200.35,   200.35,    0.00)  DC
          6TH HIGHEST VALUE IS       5.51966 AT (  439864.50,  3761056.98,   199.02,   199.02,    0.00)  DC
          7TH HIGHEST VALUE IS       5.51292 AT (  439864.50,  3761106.98,   200.00,   200.00,    0.00)  DC
          8TH HIGHEST VALUE IS       5.48531 AT (  439864.50,  3760956.98,   198.00,   198.00,    0.00)  DC
          9TH HIGHEST VALUE IS       5.46763 AT (  439864.50,  3761006.98,   199.00,   199.00,    0.00)  DC
         10TH HIGHEST VALUE IS       5.39170 AT (  439864.50,  3760906.98,   198.00,   198.00,    0.00)  DC

 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
```

Model Output - Construction HRA
Unit Emission Rates (1 g/s)

```
*** AERMOD - VERSION  18081 ***   *** Construction HRA                                                    ***        08/13/19
*** AERMET - VERSION  16216 ***   *** City of Ontario                                                     ***        16:40:58
                                                                                                                     PAGE 148
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

*** Message Summary : AERMOD Model Execution ***

 --------- Summary of Total Messages --------

A Total of            0 Fatal Error Message(s)
A Total of            2 Warning Message(s)
A Total of         1279 Informational Message(s)

A Total of        43848 Hours Were Processed

A Total of          917 Calm Hours Identified

A Total of          362 Missing Hours Identified (  0.83 Percent)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
ME W186    1982       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187    1982       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

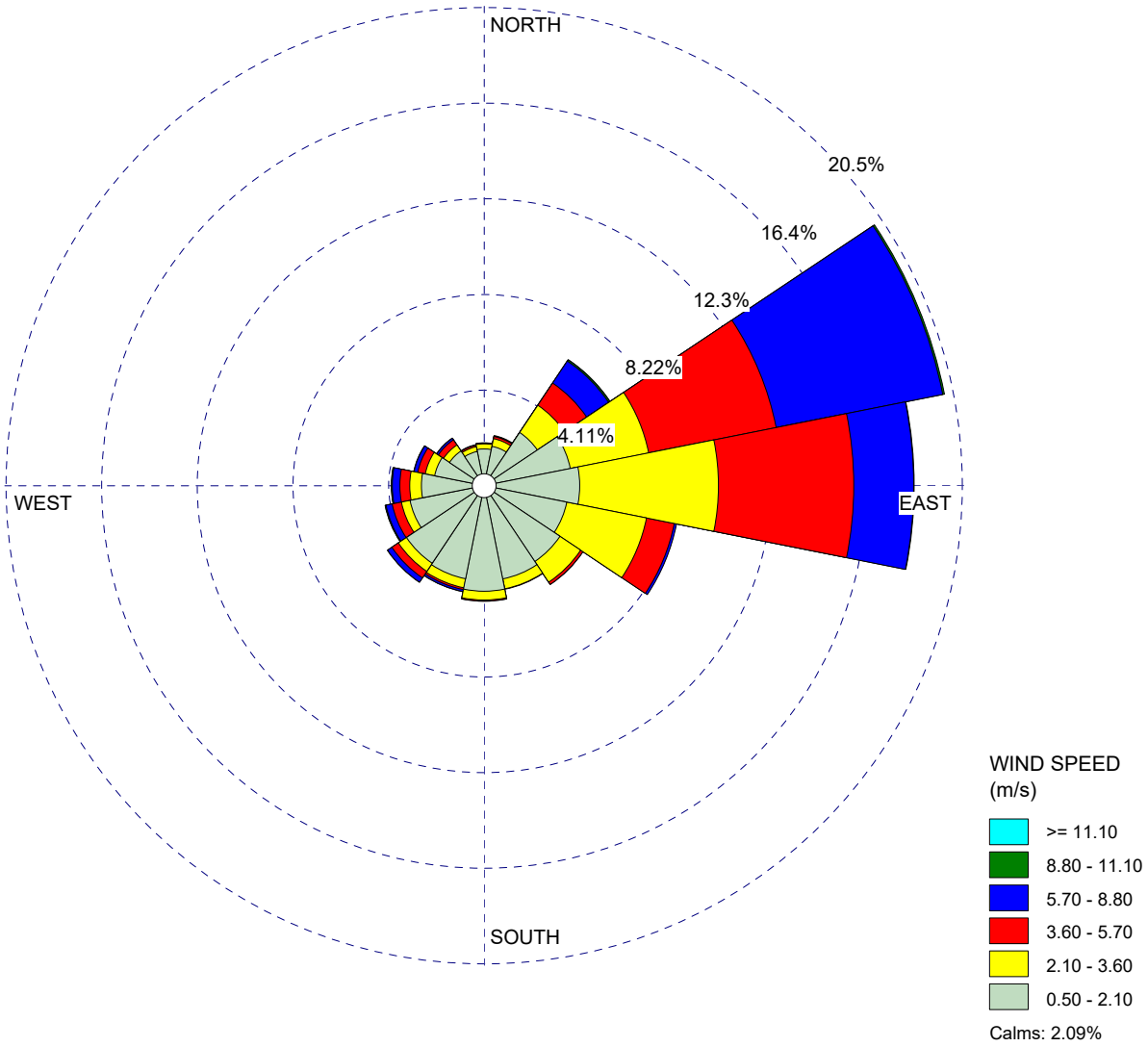
   ************************************
   *** AERMOD Finishes Successfully ***
   ************************************
```

WIND ROSE PLOT:

Chino Airport Meteorological Station
2012-2016

DISPLAY:

Wind Speed
Flow Vector (blowing to)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
All Hours	**Start Date: 1/1/2012 - 00:00** **End Date: 12/31/2016 - 23:59**	**PlaceWorks**	
		MODELER: **SB**	
	CALM WINDS: **2.09%**	TOTAL COUNT: **43598 hrs.**	
	AVG. WIND SPEED: **2.79 m/s**	DATE: **7/12/2019**	PROJECT NO.: **ONT-05.0**

WRPLOT View - Lakes Environmental Software

Appendix D. Operational Air Dispersion Model Output

Appendix

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Model Output - Operational HRA
Unit Emission Rates (1 g/s)

```
*** AERMOD - VERSION  18081 ***   *** Ontario Ranch Business Park HRA                                    ***        08/28/19
*** AERMET - VERSION  16216 ***   *** Operation                                                          ***        16:18:20
                                                                                                                    PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

**Model Is Setup For Calculation of Average CONCentration Values.

  --  DEPOSITION LOGIC  --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
**Model Uses NO WET DEPLETION.  WETDPLT  =  F

**Model Uses URBAN Dispersion Algorithm for the SBL for  1558 Source(s),
  for Total of    1 Urban Area(s):
  Urban Population =   2035210.0 ;  Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
        6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
        ADJ_U*   - Use ADJ_U* option for SBL in AERMET
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of:  OTHER

**Model Calculates  3 Short Term Average(s) of:   1-HR   8-HR  24-HR
    and Calculates PERIOD Averages

**This Run Includes:   1558 Source(s);       4 Source Group(s); and     543 Receptor(s)

               with:    269 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                and:   1288 VOLUME source(s)
                and:      1 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with      0 line(s)
```

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

```
**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   198.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =     10.9 MB of RAM.

**Input Runstream File:          aermod.inp
**Output Print File:             aermod.out

**Detailed Error/Message File:   ONT05_Op.err
**File for Summary of Results:   ONT05_Op.sum
```

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK1	0	0.10000E+01	440114.0	3760536.8	194.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK2	0	0.10000E+01	440122.6	3760536.8	194.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK3	0	0.10000E+01	440127.1	3760536.8	194.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK4	0	0.10000E+01	440131.5	3760536.8	194.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK5	0	0.10000E+01	440134.6	3760536.8	194.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK6	0	0.10000E+01	440139.9	3760536.8	194.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK7	0	0.10000E+01	440144.2	3760536.8	194.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK8	0	0.10000E+01	440148.7	3760536.8	194.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK9	0	0.10000E+01	440157.2	3760536.8	194.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK10	0	0.10000E+01	440161.5	3760536.8	194.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK11	0	0.10000E+01	440165.8	3760536.8	194.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK12	0	0.10000E+01	440169.9	3760536.8	194.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK13	0	0.10000E+01	440174.2	3760536.8	194.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK14	0	0.10000E+01	440179.1	3760536.8	194.3	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK15	0	0.10000E+01	440182.9	3760536.8	194.3	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK16	0	0.10000E+01	440191.7	3760536.8	194.3	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK17	0	0.10000E+01	440196.2	3760536.8	194.3	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK18	0	0.10000E+01	440199.8	3760536.8	194.3	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK19	0	0.10000E+01	440204.4	3760536.8	194.3	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK20	0	0.10000E+01	440208.8	3760536.8	194.3	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK21	0	0.10000E+01	440212.4	3760536.8	194.3	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK22	0	0.10000E+01	440216.3	3760536.8	194.4	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK23	0	0.10000E+01	440225.6	3760536.8	194.4	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK24	0	0.10000E+01	440228.6	3760536.8	194.4	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK25	0	0.10000E+01	440233.4	3760536.8	194.5	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK26	0	0.10000E+01	440236.9	3760536.8	194.5	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK27	0	0.10000E+01	440240.6	3760536.8	194.5	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK28	0	0.10000E+01	440245.1	3760536.8	194.5	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK29	0	0.10000E+01	440251.8	3760536.8	194.5	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK30	0	0.10000E+01	440259.4	3760536.8	194.6	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK31	0	0.10000E+01	440263.4	3760536.8	194.6	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK32	0	0.10000E+01	440267.7	3760536.8	194.6	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK33	0	0.10000E+01	440271.8	3760536.8	194.6	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK34	0	0.10000E+01	440275.8	3760536.8	194.7	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK35	0	0.10000E+01	440280.6	3760536.8	194.7	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK36	0	0.10000E+01	440284.9	3760536.8	194.7	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK37	0	0.10000E+01	440293.9	3760536.8	194.7	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK38	0	0.10000E+01	440297.8	3760536.8	194.8	4.15	366.00	51.71	0.10	YES	YES	NO	

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

STCK39	0	0.10000E+01	440302.2	3760536.8	194.8	4.15	366.00	51.71	0.10	YES	YES	NO
STCK40	0	0.10000E+01	440306.9	3760536.8	194.8	4.15	366.00	51.71	0.10	YES	YES	NO
STCK41	0	0.10000E+01	440311.1	3760536.8	194.8	4.15	366.00	51.71	0.10	YES	YES	NO
STCK42	0	0.10000E+01	440312.8	3760737.0	196.8	4.15	366.00	51.71	0.10	YES	YES	NO
STCK43	0	0.10000E+01	440303.6	3760737.0	196.7	4.15	366.00	51.71	0.10	YES	YES	NO
STCK44	0	0.10000E+01	440300.2	3760737.0	196.7	4.15	366.00	51.71	0.10	YES	YES	NO
STCK45	0	0.10000E+01	440296.1	3760737.0	196.7	4.15	366.00	51.71	0.10	YES	YES	NO
STCK46	0	0.10000E+01	440291.4	3760737.0	196.6	4.15	366.00	51.71	0.10	YES	YES	NO
STCK47	0	0.10000E+01	440287.6	3760737.0	196.6	4.15	366.00	51.71	0.10	YES	YES	NO
STCK48	0	0.10000E+01	440283.7	3760737.0	196.6	4.15	366.00	51.71	0.10	YES	YES	NO
STCK49	0	0.10000E+01	440278.8	3760737.0	196.5	4.15	366.00	51.71	0.10	YES	YES	NO
STCK50	0	0.10000E+01	440270.5	3760737.0	196.5	4.15	366.00	51.71	0.10	YES	YES	NO
STCK51	0	0.10000E+01	440265.5	3760737.0	196.4	4.15	366.00	51.71	0.10	YES	YES	NO
STCK52	0	0.10000E+01	440261.3	3760737.0	196.4	4.15	366.00	51.71	0.10	YES	YES	NO
STCK53	0	0.10000E+01	440257.0	3760737.0	196.3	4.15	366.00	51.71	0.10	YES	YES	NO
STCK54	0	0.10000E+01	440252.9	3760737.0	196.3	4.15	366.00	51.71	0.10	YES	YES	NO
STCK55	0	0.10000E+01	440248.2	3760737.0	196.3	4.15	366.00	51.71	0.10	YES	YES	NO
STCK56	0	0.10000E+01	440243.7	3760737.0	196.3	4.15	366.00	51.71	0.10	YES	YES	NO
STCK57	0	0.10000E+01	440235.6	3760737.0	196.2	4.15	366.00	51.71	0.10	YES	YES	NO
STCK58	0	0.10000E+01	440230.0	3760737.0	196.2	4.15	366.00	51.71	0.10	YES	YES	NO
STCK59	0	0.10000E+01	440226.6	3760737.0	196.2	4.15	366.00	51.71	0.10	YES	YES	NO
STCK60	0	0.10000E+01	440222.7	3760737.0	196.2	4.15	366.00	51.71	0.10	YES	YES	NO
STCK61	0	0.10000E+01	440218.8	3760737.0	196.2	4.15	366.00	51.71	0.10	YES	YES	NO
STCK62	0	0.10000E+01	440214.2	3760737.0	196.2	4.15	366.00	51.71	0.10	YES	YES	NO
STCK63	0	0.10000E+01	440209.5	3760737.0	196.2	4.15	366.00	51.71	0.10	YES	YES	NO
STCK64	0	0.10000E+01	440201.5	3760737.0	196.2	4.15	366.00	51.71	0.10	YES	YES	NO
STCK65	0	0.10000E+01	440197.2	3760737.0	196.2	4.15	366.00	51.71	0.10	YES	YES	NO
STCK66	0	0.10000E+01	440192.7	3760737.0	196.2	4.15	366.00	51.71	0.10	YES	YES	NO
STCK67	0	0.10000E+01	440188.0	3760737.0	196.1	4.15	366.00	51.71	0.10	YES	YES	NO
STCK68	0	0.10000E+01	440184.8	3760737.0	196.1	4.15	366.00	51.71	0.10	YES	YES	NO
STCK69	0	0.10000E+01	440180.1	3760737.0	196.1	4.15	366.00	51.71	0.10	YES	YES	NO
STCK70	0	0.10000E+01	440175.4	3760737.0	196.0	4.15	366.00	51.71	0.10	YES	YES	NO
STCK71	0	0.10000E+01	440167.3	3760737.0	195.9	4.15	366.00	51.71	0.10	YES	YES	NO
STCK72	0	0.10000E+01	440163.4	3760737.0	195.9	4.15	366.00	51.71	0.10	YES	YES	NO
STCK73	0	0.10000E+01	440159.1	3760737.0	195.8	4.15	366.00	51.71	0.10	YES	YES	NO
STCK74	0	0.10000E+01	440155.0	3760737.0	195.8	4.15	366.00	51.71	0.10	YES	YES	NO
STCK75	0	0.10000E+01	440150.4	3760737.0	195.9	4.15	366.00	51.71	0.10	YES	YES	NO
STCK76	0	0.10000E+01	440146.3	3760737.0	196.0	4.15	366.00	51.71	0.10	YES	YES	NO
STCK77	0	0.10000E+01	440141.8	3760737.0	196.2	4.15	366.00	51.71	0.10	YES	YES	NO
STCK78	0	0.10000E+01	440133.2	3760737.0	196.4	4.15	366.00	51.71	0.10	YES	YES	NO
STCK79	0	0.10000E+01	440129.0	3760737.0	196.5	4.15	366.00	51.71	0.10	YES	YES	NO
STCK80	0	0.10000E+01	440125.1	3760737.0	196.5	4.15	366.00	51.71	0.10	YES	YES	NO

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK81	0	0.10000E+01	440119.7	3760737.0	196.5	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK82	0	0.10000E+01	440115.7	3760737.0	196.5	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK83	0	0.10000E+01	440115.6	3760870.5	197.7	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK84	0	0.10000E+01	440124.4	3760870.5	197.5	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK85	0	0.10000E+01	440128.8	3760870.5	197.5	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK86	0	0.10000E+01	440133.1	3760870.5	197.4	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK87	0	0.10000E+01	440137.4	3760870.5	197.4	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK88	0	0.10000E+01	440141.9	3760870.5	197.4	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK89	0	0.10000E+01	440145.6	3760870.5	197.4	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK90	0	0.10000E+01	440149.6	3760870.5	197.4	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK91	0	0.10000E+01	440158.6	3760870.5	197.4	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK92	0	0.10000E+01	440162.9	3760870.5	197.5	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK93	0	0.10000E+01	440167.4	3760870.5	197.6	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK94	0	0.10000E+01	440171.3	3760870.5	197.7	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK95	0	0.10000E+01	440175.7	3760870.5	197.8	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK96	0	0.10000E+01	440180.0	3760870.5	198.0	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK97	0	0.10000E+01	440184.3	3760870.5	198.0	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK98	0	0.10000E+01	440192.9	3760870.5	198.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK99	0	0.10000E+01	440197.5	3760870.5	198.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK100	0	0.10000E+01	440201.9	3760870.5	198.3	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK101	0	0.10000E+01	440206.1	3760870.5	198.4	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK102	0	0.10000E+01	440210.8	3760870.5	198.4	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK103	0	0.10000E+01	440214.1	3760870.5	198.4	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK104	0	0.10000E+01	440218.3	3760870.5	198.4	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK105	0	0.10000E+01	440227.5	3760870.5	198.4	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK106	0	0.10000E+01	440231.1	3760870.5	198.4	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK107	0	0.10000E+01	440235.9	3760870.5	198.4	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK108	0	0.10000E+01	440240.3	3760870.5	198.3	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK109	0	0.10000E+01	440245.0	3760870.5	198.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK110	0	0.10000E+01	440248.7	3760870.5	198.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK111	0	0.10000E+01	440253.4	3760870.5	198.1	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK112	0	0.10000E+01	440262.0	3760870.5	198.0	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK113	0	0.10000E+01	440266.4	3760870.5	198.0	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK114	0	0.10000E+01	440269.9	3760870.5	198.0	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK115	0	0.10000E+01	440274.3	3760870.5	197.9	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK116	0	0.10000E+01	440279.4	3760870.5	197.9	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK117	0	0.10000E+01	440284.1	3760870.5	197.8	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK118	0	0.10000E+01	440287.8	3760870.5	197.8	4.15	366.00	51.71	0.10	YES	YES	NO	

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

STCK119	0	0.10000E+01	440295.8	3760870.5	197.8	4.15	366.00	51.71	0.10	YES	YES	NO
STCK120	0	0.10000E+01	440300.6	3760870.5	197.8	4.15	366.00	51.71	0.10	YES	YES	NO
STCK121	0	0.10000E+01	440304.8	3760870.5	197.8	4.15	366.00	51.71	0.10	YES	YES	NO
STCK122	0	0.10000E+01	440309.0	3760870.5	197.8	4.15	366.00	51.71	0.10	YES	YES	NO
STCK123	0	0.10000E+01	440312.8	3760870.5	197.8	4.15	366.00	51.71	0.10	YES	YES	NO
STCK124	0	0.10000E+01	440314.4	3761066.0	200.1	4.15	366.00	51.71	0.10	YES	YES	NO
STCK125	0	0.10000E+01	440305.8	3761066.0	200.2	4.15	366.00	51.71	0.10	YES	YES	NO
STCK126	0	0.10000E+01	440301.4	3761066.0	200.2	4.15	366.00	51.71	0.10	YES	YES	NO
STCK127	0	0.10000E+01	440297.4	3761066.0	200.3	4.15	366.00	51.71	0.10	YES	YES	NO
STCK128	0	0.10000E+01	440292.8	3761066.0	200.4	4.15	366.00	51.71	0.10	YES	YES	NO
STCK129	0	0.10000E+01	440287.9	3761066.0	200.5	4.15	366.00	51.71	0.10	YES	YES	NO
STCK130	0	0.10000E+01	440284.8	3761066.0	200.5	4.15	366.00	51.71	0.10	YES	YES	NO
STCK131	0	0.10000E+01	440280.4	3761066.0	200.7	4.15	366.00	51.71	0.10	YES	YES	NO
STCK132	0	0.10000E+01	440271.6	3761066.0	200.9	4.15	366.00	51.71	0.10	YES	YES	NO
STCK133	0	0.10000E+01	440267.6	3761066.0	201.0	4.15	366.00	51.71	0.10	YES	YES	NO
STCK134	0	0.10000E+01	440263.2	3761066.0	201.1	4.15	366.00	51.71	0.10	YES	YES	NO
STCK135	0	0.10000E+01	440258.8	3761066.0	201.2	4.15	366.00	51.71	0.10	YES	YES	NO
STCK136	0	0.10000E+01	440254.6	3761066.0	201.3	4.15	366.00	51.71	0.10	YES	YES	NO
STCK137	0	0.10000E+01	440250.2	3761066.0	201.4	4.15	366.00	51.71	0.10	YES	YES	NO
STCK138	0	0.10000E+01	440246.0	3761066.0	201.5	4.15	366.00	51.71	0.10	YES	YES	NO
STCK139	0	0.10000E+01	440237.4	3761066.0	201.6	4.15	366.00	51.71	0.10	YES	YES	NO
STCK140	0	0.10000E+01	440231.8	3761066.0	201.7	4.15	366.00	51.71	0.10	YES	YES	NO
STCK141	0	0.10000E+01	440227.4	3761066.0	201.7	4.15	366.00	51.71	0.10	YES	YES	NO
STCK142	0	0.10000E+01	440223.7	3761066.0	201.7	4.15	366.00	51.71	0.10	YES	YES	NO
STCK143	0	0.10000E+01	440220.1	3761066.0	201.7	4.15	366.00	51.71	0.10	YES	YES	NO
STCK144	0	0.10000E+01	440215.7	3761066.0	201.7	4.15	366.00	51.71	0.10	YES	YES	NO
STCK145	0	0.10000E+01	440210.9	3761066.0	201.7	4.15	366.00	51.71	0.10	YES	YES	NO
STCK146	0	0.10000E+01	440203.4	3761066.0	201.5	4.15	366.00	51.71	0.10	YES	YES	NO
STCK147	0	0.10000E+01	440198.7	3761066.0	201.3	4.15	366.00	51.71	0.10	YES	YES	NO
STCK148	0	0.10000E+01	440194.1	3761066.0	201.1	4.15	366.00	51.71	0.10	YES	YES	NO
STCK149	0	0.10000E+01	440189.9	3761066.0	200.9	4.15	366.00	51.71	0.10	YES	YES	NO
STCK150	0	0.10000E+01	440185.7	3761066.0	200.7	4.15	366.00	51.71	0.10	YES	YES	NO
STCK151	0	0.10000E+01	440181.3	3761066.0	200.6	4.15	366.00	51.71	0.10	YES	YES	NO
STCK152	0	0.10000E+01	440176.9	3761066.0	200.5	4.15	366.00	51.71	0.10	YES	YES	NO
STCK153	0	0.10000E+01	440168.7	3761066.0	200.2	4.15	366.00	51.71	0.10	YES	YES	NO
STCK154	0	0.10000E+01	440165.0	3761066.0	200.1	4.15	366.00	51.71	0.10	YES	YES	NO
STCK155	0	0.10000E+01	440160.1	3761066.0	200.0	4.15	366.00	51.71	0.10	YES	YES	NO
STCK156	0	0.10000E+01	440155.7	3761066.0	200.0	4.15	366.00	51.71	0.10	YES	YES	NO
STCK157	0	0.10000E+01	440151.5	3761066.0	200.0	4.15	366.00	51.71	0.10	YES	YES	NO
STCK158	0	0.10000E+01	440146.8	3761066.0	200.1	4.15	366.00	51.71	0.10	YES	YES	NO
STCK159	0	0.10000E+01	440142.9	3761066.0	200.1	4.15	366.00	51.71	0.10	YES	YES	NO
STCK160	0	0.10000E+01	440134.5	3761066.0	200.2	4.15	366.00	51.71	0.10	YES	YES	NO

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK161	0	0.10000E+01	440129.6	3761066.0	200.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK162	0	0.10000E+01	440125.0	3761066.0	200.3	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK163	0	0.10000E+01	440120.3	3761066.0	200.3	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK164	0	0.10000E+01	440116.6	3761066.0	200.4	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK165	0	0.10000E+01	440333.3	3761172.2	202.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK166	0	0.10000E+01	440328.9	3761172.2	202.1	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK167	0	0.10000E+01	440324.3	3761172.2	201.9	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK168	0	0.10000E+01	440320.1	3761172.2	201.8	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK169	0	0.10000E+01	440311.9	3761172.2	201.6	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK170	0	0.10000E+01	440307.3	3761172.2	201.6	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK171	0	0.10000E+01	440303.1	3761172.2	201.7	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK172	0	0.10000E+01	440299.3	3761172.2	201.7	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK173	0	0.10000E+01	440295.1	3761172.2	201.8	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK174	0	0.10000E+01	440290.5	3761172.2	201.8	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK175	0	0.10000E+01	440286.3	3761172.2	201.9	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK176	0	0.10000E+01	440277.9	3761172.2	202.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK177	0	0.10000E+01	440272.8	3761172.2	202.4	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK178	0	0.10000E+01	440269.3	3761172.2	202.5	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK179	0	0.10000E+01	440166.0	3761172.6	202.0	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK180	0	0.10000E+01	440162.5	3761172.6	201.8	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK181	0	0.10000E+01	440158.5	3761172.6	201.6	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK182	0	0.10000E+01	440150.7	3761172.6	201.6	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK183	0	0.10000E+01	440146.0	3761172.6	201.6	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK184	0	0.10000E+01	440141.7	3761172.6	201.6	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK185	0	0.10000E+01	440137.4	3761172.6	201.6	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK186	0	0.10000E+01	440134.1	3761172.6	201.6	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK187	0	0.10000E+01	440128.5	3761172.6	201.7	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK188	0	0.10000E+01	440124.5	3761172.6	201.7	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK189	0	0.10000E+01	440115.7	3761172.6	201.9	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK190	0	0.10000E+01	440111.8	3761172.6	202.0	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK191	0	0.10000E+01	440107.9	3761172.6	202.1	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK192	0	0.10000E+01	440102.7	3761172.6	202.0	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK193	0	0.10000E+01	439984.0	3761190.4	201.4	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK194	0	0.10000E+01	439984.0	3761186.6	201.3	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK195	0	0.10000E+01	439984.0	3761182.9	201.3	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK196	0	0.10000E+01	439984.0	3761178.0	201.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK197	0	0.10000E+01	439984.0	3761174.2	201.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK198	0	0.10000E+01	439984.0	3761169.9	201.1	4.15	366.00	51.71	0.10	YES	YES	NO	

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

STCK199	0	0.10000E+01	440002.9	3761112.4	200.6	4.15	366.00	51.71	0.10	YES	YES	NO
STCK200	0	0.10000E+01	440002.9	3761107.0	200.6	4.15	366.00	51.71	0.10	YES	YES	NO
STCK201	0	0.10000E+01	440002.9	3761103.1	200.6	4.15	366.00	51.71	0.10	YES	YES	NO
STCK202	0	0.10000E+01	440002.9	3761098.3	200.5	4.15	366.00	51.71	0.10	YES	YES	NO
STCK203	0	0.10000E+01	440002.9	3761094.8	200.5	4.15	366.00	51.71	0.10	YES	YES	NO
STCK204	0	0.10000E+01	440002.9	3761091.6	200.5	4.15	366.00	51.71	0.10	YES	YES	NO
STCK205	0	0.10000E+01	440002.9	3761083.2	200.4	4.15	366.00	51.71	0.10	YES	YES	NO
STCK206	0	0.10000E+01	440002.9	3761079.5	200.4	4.15	366.00	51.71	0.10	YES	YES	NO
STCK207	0	0.10000E+01	440002.9	3761075.2	200.3	4.15	366.00	51.71	0.10	YES	YES	NO
STCK208	0	0.10000E+01	440002.9	3761071.1	200.3	4.15	366.00	51.71	0.10	YES	YES	NO
STCK209	0	0.10000E+01	440002.9	3761067.9	200.2	4.15	366.00	51.71	0.10	YES	YES	NO
STCK210	0	0.10000E+01	440003.0	3760965.8	199.1	4.15	366.00	51.71	0.10	YES	YES	NO
STCK211	0	0.10000E+01	440003.0	3760961.8	199.1	4.15	366.00	51.71	0.10	YES	YES	NO
STCK212	0	0.10000E+01	440003.0	3760956.4	199.0	4.15	366.00	51.71	0.10	YES	YES	NO
STCK213	0	0.10000E+01	440003.0	3760952.8	198.9	4.15	366.00	51.71	0.10	YES	YES	NO
STCK214	0	0.10000E+01	440003.0	3760945.0	198.8	4.15	366.00	51.71	0.10	YES	YES	NO
STCK215	0	0.10000E+01	440003.0	3760940.6	198.8	4.15	366.00	51.71	0.10	YES	YES	NO
STCK216	0	0.10000E+01	440003.0	3760936.9	198.7	4.15	366.00	51.71	0.10	YES	YES	NO
STCK217	0	0.10000E+01	440003.0	3760932.2	198.7	4.15	366.00	51.71	0.10	YES	YES	NO
STCK218	0	0.10000E+01	440003.0	3760929.0	198.6	4.15	366.00	51.71	0.10	YES	YES	NO
STCK219	0	0.10000E+01	440003.0	3760924.1	198.5	4.15	366.00	51.71	0.10	YES	YES	NO
STCK220	0	0.10000E+01	440003.0	3760920.0	198.5	4.15	366.00	51.71	0.10	YES	YES	NO
STCK221	0	0.10000E+01	440003.0	3760912.7	198.4	4.15	366.00	51.71	0.10	YES	YES	NO
STCK222	0	0.10000E+01	440003.0	3760908.2	198.3	4.15	366.00	51.71	0.10	YES	YES	NO
STCK223	0	0.10000E+01	440003.0	3760904.6	198.3	4.15	366.00	51.71	0.10	YES	YES	NO
STCK224	0	0.10000E+01	440003.0	3760900.7	198.2	4.15	366.00	51.71	0.10	YES	YES	NO
STCK225	0	0.10000E+01	440003.0	3760896.3	198.1	4.15	366.00	51.71	0.10	YES	YES	NO
STCK226	0	0.10000E+01	440003.0	3760891.8	198.1	4.15	366.00	51.71	0.10	YES	YES	NO
STCK227	0	0.10000E+01	440003.0	3760888.3	198.0	4.15	366.00	51.71	0.10	YES	YES	NO
STCK228	0	0.10000E+01	440003.0	3760880.0	197.9	4.15	366.00	51.71	0.10	YES	YES	NO
STCK229	0	0.10000E+01	440003.0	3760875.7	197.8	4.15	366.00	51.71	0.10	YES	YES	NO
STCK230	0	0.10000E+01	440003.0	3760872.3	197.8	4.15	366.00	51.71	0.10	YES	YES	NO
STCK231	0	0.10000E+01	440001.5	3760726.0	195.9	4.15	366.00	51.71	0.10	YES	YES	NO
STCK232	0	0.10000E+01	440001.5	3760722.2	195.9	4.15	366.00	51.71	0.10	YES	YES	NO
STCK233	0	0.10000E+01	440001.5	3760718.4	195.9	4.15	366.00	51.71	0.10	YES	YES	NO
STCK234	0	0.10000E+01	440001.5	3760714.2	195.8	4.15	366.00	51.71	0.10	YES	YES	NO
STCK235	0	0.10000E+01	440001.5	3760710.4	195.8	4.15	366.00	51.71	0.10	YES	YES	NO
STCK236	0	0.10000E+01	440001.5	3760706.3	195.7	4.15	366.00	51.71	0.10	YES	YES	NO
STCK237	0	0.10000E+01	440001.5	3760698.6	195.7	4.15	366.00	51.71	0.10	YES	YES	NO
STCK238	0	0.10000E+01	440001.5	3760694.2	195.6	4.15	366.00	51.71	0.10	YES	YES	NO
STCK239	0	0.10000E+01	440001.5	3760690.0	195.6	4.15	366.00	51.71	0.10	YES	YES	NO
STCK240	0	0.10000E+01	440001.5	3760686.2	195.6	4.15	366.00	51.71	0.10	YES	YES	NO

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK241	0	0.10000E+01	440001.5	3760682.6	195.5	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK242	0	0.10000E+01	440001.5	3760678.6	195.5	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK243	0	0.10000E+01	440001.5	3760674.2	195.5	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK244	0	0.10000E+01	440001.5	3760666.0	195.4	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK245	0	0.10000E+01	440001.5	3760662.4	195.3	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK246	0	0.10000E+01	440001.5	3760657.9	195.3	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK247	0	0.10000E+01	440001.5	3760653.8	195.3	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK248	0	0.10000E+01	440001.5	3760650.0	195.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK249	0	0.10000E+01	440001.5	3760646.1	195.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK250	0	0.10000E+01	440001.5	3760641.9	195.2	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK251	0	0.10000E+01	440001.5	3760633.8	195.1	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK252	0	0.10000E+01	440001.5	3760630.0	195.1	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK253	0	0.10000E+01	440001.5	3760625.9	195.0	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK254	0	0.10000E+01	440001.5	3760621.6	195.0	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK255	0	0.10000E+01	440001.5	3760617.9	194.9	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK256	0	0.10000E+01	440001.5	3760614.1	194.9	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK257	0	0.10000E+01	440001.5	3760610.1	194.8	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK258	0	0.10000E+01	440001.5	3760601.8	194.8	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK259	0	0.10000E+01	440001.5	3760597.7	194.7	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK260	0	0.10000E+01	440001.5	3760593.8	194.7	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK261	0	0.10000E+01	440001.5	3760589.5	194.7	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK262	0	0.10000E+01	440001.5	3760586.2	194.6	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK263	0	0.10000E+01	440001.5	3760582.9	194.6	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK264	0	0.10000E+01	440001.5	3760578.9	194.6	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK265	0	0.10000E+01	440001.5	3760569.2	194.5	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK266	0	0.10000E+01	440001.5	3760565.4	194.5	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK267	0	0.10000E+01	440001.5	3760561.7	194.4	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK268	0	0.10000E+01	440001.5	3760557.0	194.4	4.15	366.00	51.71	0.10	YES	YES	NO	
STCK269	0	0.10000E+01	440001.5	3760553.8	194.3	4.15	366.00	51.71	0.10	YES	YES	NO	

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0004068	0	0.14820E-02	439914.5	3765780.1	254.5	4.15	12.09	1.93	YES	
L0004069	0	0.14820E-02	439914.5	3765754.1	254.2	4.15	12.09	1.93	YES	
L0004070	0	0.14820E-02	439914.5	3765728.1	253.9	4.15	12.09	1.93	YES	
L0004071	0	0.14820E-02	439914.5	3765702.1	253.6	4.15	12.09	1.93	YES	
L0004072	0	0.14820E-02	439914.5	3765676.1	253.3	4.15	12.09	1.93	YES	
L0004073	0	0.14820E-02	439914.5	3765650.1	253.0	4.15	12.09	1.93	YES	
L0004074	0	0.14820E-02	439914.5	3765624.1	252.7	4.15	12.09	1.93	YES	
L0004075	0	0.14820E-02	439914.5	3765598.1	252.4	4.15	12.09	1.93	YES	
L0004076	0	0.14820E-02	439914.5	3765572.1	252.1	4.15	12.09	1.93	YES	
L0004077	0	0.14820E-02	439914.5	3765546.1	251.8	4.15	12.09	1.93	YES	
L0004078	0	0.14820E-02	439914.5	3765520.1	251.4	4.15	12.09	1.93	YES	
L0004079	0	0.14820E-02	439914.5	3765494.1	251.1	4.15	12.09	1.93	YES	
L0004080	0	0.14820E-02	439914.5	3765468.1	250.8	4.15	12.09	1.93	YES	
L0004081	0	0.14820E-02	439914.5	3765442.1	250.5	4.15	12.09	1.93	YES	
L0004082	0	0.14820E-02	439914.5	3765416.1	250.2	4.15	12.09	1.93	YES	
L0004083	0	0.14820E-02	439914.5	3765390.1	249.9	4.15	12.09	1.93	YES	
L0004084	0	0.14820E-02	439914.5	3765364.1	249.6	4.15	12.09	1.93	YES	
L0004085	0	0.14820E-02	439914.5	3765338.1	249.3	4.15	12.09	1.93	YES	
L0004086	0	0.14820E-02	439914.5	3765312.1	249.0	4.15	12.09	1.93	YES	
L0004087	0	0.14820E-02	439914.5	3765286.1	248.7	4.15	12.09	1.93	YES	
L0004088	0	0.14820E-02	439914.5	3765260.1	248.4	4.15	12.09	1.93	YES	
L0004089	0	0.14820E-02	439914.5	3765234.1	248.1	4.15	12.09	1.93	YES	
L0004090	0	0.14820E-02	439914.5	3765208.1	247.8	4.15	12.09	1.93	YES	
L0004091	0	0.14820E-02	439914.5	3765182.1	247.5	4.15	12.09	1.93	YES	
L0004092	0	0.14820E-02	439914.5	3765156.1	247.1	4.15	12.09	1.93	YES	
L0004093	0	0.14820E-02	439914.5	3765130.1	246.8	4.15	12.09	1.93	YES	
L0004094	0	0.14820E-02	439914.5	3765104.1	246.5	4.15	12.09	1.93	YES	
L0004095	0	0.14820E-02	439914.5	3765078.1	246.2	4.15	12.09	1.93	YES	
L0004096	0	0.14820E-02	439914.5	3765052.1	245.9	4.15	12.09	1.93	YES	
L0004097	0	0.14820E-02	439914.5	3765026.1	245.6	4.15	12.09	1.93	YES	
L0004098	0	0.14820E-02	439914.5	3765000.1	245.3	4.15	12.09	1.93	YES	
L0004099	0	0.14820E-02	439914.5	3764974.1	245.0	4.15	12.09	1.93	YES	
L0004100	0	0.14820E-02	439914.5	3764948.1	244.7	4.15	12.09	1.93	YES	
L0004101	0	0.14820E-02	439914.5	3764922.1	244.4	4.15	12.09	1.93	YES	
L0004102	0	0.14820E-02	439914.4	3764896.1	244.1	4.15	12.09	1.93	YES	
L0004103	0	0.14820E-02	439914.4	3764870.1	243.7	4.15	12.09	1.93	YES	
L0004104	0	0.14820E-02	439914.3	3764844.1	243.4	4.15	12.09	1.93	YES	
L0004105	0	0.14820E-02	439914.3	3764818.1	243.1	4.15	12.09	1.93	YES	

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

L0004106	0	0.14820E-02	439914.2	3764792.1	242.8	4.15	12.09	1.93	YES
L0004107	0	0.14820E-02	439914.2	3764766.1	242.5	4.15	12.09	1.93	YES
L0004108	0	0.14820E-02	439914.1	3764740.1	242.2	4.15	12.09	1.93	YES
L0004109	0	0.14820E-02	439914.1	3764714.1	241.8	4.15	12.09	1.93	YES
L0004110	0	0.14820E-02	439914.0	3764688.1	241.5	4.15	12.09	1.93	YES
L0004111	0	0.14820E-02	439914.0	3764662.1	241.2	4.15	12.09	1.93	YES
L0004112	0	0.14820E-02	439913.9	3764636.1	240.9	4.15	12.09	1.93	YES
L0004113	0	0.14820E-02	439913.9	3764610.1	240.6	4.15	12.09	1.93	YES
L0004114	0	0.14820E-02	439913.8	3764584.1	240.2	4.15	12.09	1.93	YES
L0004115	0	0.14820E-02	439913.8	3764558.1	239.9	4.15	12.09	1.93	YES
L0004116	0	0.14820E-02	439913.7	3764532.1	239.6	4.15	12.09	1.93	YES
L0004117	0	0.14820E-02	439913.7	3764506.1	239.3	4.15	12.09	1.93	YES
L0004118	0	0.14820E-02	439913.6	3764480.1	239.0	4.15	12.09	1.93	YES
L0004119	0	0.14820E-02	439913.6	3764454.1	238.6	4.15	12.09	1.93	YES
L0004120	0	0.14820E-02	439913.5	3764428.1	238.3	4.15	12.09	1.93	YES
L0004121	0	0.14820E-02	439913.5	3764402.1	238.0	4.15	12.09	1.93	YES
L0004122	0	0.14820E-02	439913.4	3764376.1	237.7	4.15	12.09	1.93	YES
L0004123	0	0.14820E-02	439913.4	3764350.1	237.4	4.15	12.09	1.93	YES
L0004124	0	0.14820E-02	439913.3	3764324.1	237.1	4.15	12.09	1.93	YES
L0004125	0	0.14820E-02	439913.3	3764298.1	236.7	4.15	12.09	1.93	YES
L0004126	0	0.14820E-02	439913.2	3764272.1	236.4	4.15	12.09	1.93	YES
L0004127	0	0.14820E-02	439913.2	3764246.1	236.1	4.15	12.09	1.93	YES
L0004128	0	0.14820E-02	439913.1	3764220.1	235.8	4.15	12.09	1.93	YES
L0004129	0	0.14820E-02	439913.1	3764194.1	235.5	4.15	12.09	1.93	YES
L0004130	0	0.14820E-02	439913.0	3764168.1	235.1	4.15	12.09	1.93	YES
L0004131	0	0.14820E-02	439913.0	3764142.1	234.8	4.15	12.09	1.93	YES
L0004132	0	0.14820E-02	439912.9	3764116.1	234.5	4.15	12.09	1.93	YES
L0004133	0	0.14820E-02	439912.9	3764090.1	234.2	4.15	12.09	1.93	YES
L0004134	0	0.14820E-02	439912.8	3764064.1	233.9	4.15	12.09	1.93	YES
L0004135	0	0.14820E-02	439912.8	3764038.1	233.5	4.15	12.09	1.93	YES
L0004136	0	0.14820E-02	439912.7	3764012.1	233.2	4.15	12.09	1.93	YES
L0004137	0	0.14820E-02	439912.7	3763986.1	232.9	4.15	12.09	1.93	YES
L0004138	0	0.14820E-02	439912.6	3763960.1	232.6	4.15	12.09	1.93	YES
L0004139	0	0.14820E-02	439912.6	3763934.1	232.3	4.15	12.09	1.93	YES
L0004140	0	0.14820E-02	439912.5	3763908.1	232.0	4.15	12.09	1.93	YES
L0004141	0	0.14820E-02	439912.5	3763882.1	231.6	4.15	12.09	1.93	YES
L0004142	0	0.14820E-02	439912.4	3763856.1	231.3	4.15	12.09	1.93	YES
L0004143	0	0.14820E-02	439912.4	3763830.1	231.0	4.15	12.09	1.93	YES
L0004144	0	0.14820E-02	439912.3	3763804.1	230.7	4.15	12.09	1.93	YES
L0004145	0	0.14820E-02	439912.3	3763778.1	230.4	4.15	12.09	1.93	YES
L0004146	0	0.14820E-02	439912.2	3763752.1	230.0	4.15	12.09	1.93	YES
L0004147	0	0.14820E-02	439912.2	3763726.1	229.7	4.15	12.09	1.93	YES

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0004148	0	0.14820E-02	439912.1	3763700.1	229.4	4.15	12.09	1.93	YES	
L0004149	0	0.14820E-02	439911.9	3763674.1	229.1	4.15	12.09	1.93	YES	
L0004150	0	0.14820E-02	439911.1	3763648.1	228.8	4.15	12.09	1.93	YES	
L0004151	0	0.14820E-02	439910.3	3763622.1	228.6	4.15	12.09	1.93	YES	
L0004152	0	0.14820E-02	439909.5	3763596.2	228.3	4.15	12.09	1.93	YES	
L0004153	0	0.14820E-02	439908.7	3763570.2	228.1	4.15	12.09	1.93	YES	
L0004154	0	0.14820E-02	439907.8	3763544.2	227.8	4.15	12.09	1.93	YES	
L0004155	0	0.14820E-02	439907.0	3763518.2	227.6	4.15	12.09	1.93	YES	
L0004156	0	0.14820E-02	439906.2	3763492.2	227.3	4.15	12.09	1.93	YES	
L0004157	0	0.14820E-02	439905.4	3763466.2	227.1	4.15	12.09	1.93	YES	
L0004158	0	0.14820E-02	439904.8	3763440.2	226.8	4.15	12.09	1.93	YES	
L0004159	0	0.14820E-02	439904.7	3763414.2	226.5	4.15	12.09	1.93	YES	
L0004160	0	0.14820E-02	439904.6	3763388.2	226.2	4.15	12.09	1.93	YES	
L0004161	0	0.14820E-02	439904.5	3763362.2	225.9	4.15	12.09	1.93	YES	
L0004162	0	0.14820E-02	439904.4	3763336.2	225.6	4.15	12.09	1.93	YES	
L0004163	0	0.14820E-02	439904.3	3763310.2	225.3	4.15	12.09	1.93	YES	
L0004164	0	0.14820E-02	439904.2	3763284.2	225.0	4.15	12.09	1.93	YES	
L0004165	0	0.14820E-02	439904.1	3763258.2	224.7	4.15	12.09	1.93	YES	
L0004166	0	0.14820E-02	439904.0	3763232.2	224.4	4.15	12.09	1.93	YES	
L0004167	0	0.14820E-02	439903.9	3763206.2	224.2	4.15	12.09	1.93	YES	
L0004168	0	0.14820E-02	439903.8	3763180.2	223.9	4.15	12.09	1.93	YES	
L0004169	0	0.14820E-02	439903.7	3763154.2	223.6	4.15	12.09	1.93	YES	
L0004170	0	0.14820E-02	439903.6	3763128.2	223.3	4.15	12.09	1.93	YES	
L0004171	0	0.14820E-02	439903.5	3763102.2	223.0	4.15	12.09	1.93	YES	
L0004172	0	0.14820E-02	439903.4	3763076.2	222.7	4.15	12.09	1.93	YES	
L0004173	0	0.14820E-02	439903.3	3763050.2	222.4	4.15	12.09	1.93	YES	
L0004174	0	0.14820E-02	439903.2	3763024.2	222.1	4.15	12.09	1.93	YES	
L0004175	0	0.14820E-02	439903.1	3762998.2	221.8	4.15	12.09	1.93	YES	
L0004176	0	0.14820E-02	439903.0	3762972.2	221.5	4.15	12.09	1.93	YES	
L0004177	0	0.14820E-02	439902.9	3762946.2	221.2	4.15	12.09	1.93	YES	
L0004178	0	0.14820E-02	439902.8	3762920.2	220.9	4.15	12.09	1.93	YES	
L0004179	0	0.14820E-02	439902.7	3762894.2	220.6	4.15	12.09	1.93	YES	
L0004180	0	0.14820E-02	439902.6	3762868.2	220.3	4.15	12.09	1.93	YES	
L0004181	0	0.14820E-02	439902.5	3762842.2	220.0	4.15	12.09	1.93	YES	
L0004182	0	0.14820E-02	439902.4	3762816.2	219.7	4.15	12.09	1.93	YES	
L0004183	0	0.14820E-02	439902.3	3762790.2	219.4	4.15	12.09	1.93	YES	
L0004184	0	0.14820E-02	439902.2	3762764.2	219.2	4.15	12.09	1.93	YES	
L0004185	0	0.14820E-02	439902.1	3762738.2	218.9	4.15	12.09	1.93	YES	

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

L0004186	0	0.14820E-02	439902.0	3762712.2	218.6	4.15	12.09	1.93	YES
L0004187	0	0.14820E-02	439901.9	3762686.2	218.3	4.15	12.09	1.93	YES
L0004188	0	0.14820E-02	439901.8	3762660.2	218.0	4.15	12.09	1.93	YES
L0004189	0	0.14820E-02	439901.7	3762634.2	217.7	4.15	12.09	1.93	YES
L0004190	0	0.14820E-02	439901.6	3762608.2	217.4	4.15	12.09	1.93	YES
L0004191	0	0.14820E-02	439901.5	3762582.2	217.1	4.15	12.09	1.93	YES
L0004192	0	0.14820E-02	439901.4	3762556.2	216.8	4.15	12.09	1.93	YES
L0004193	0	0.14820E-02	439901.3	3762530.2	216.5	4.15	12.09	1.93	YES
L0004194	0	0.14820E-02	439901.2	3762504.2	216.2	4.15	12.09	1.93	YES
L0004195	0	0.14820E-02	439901.1	3762478.2	215.9	4.15	12.09	1.93	YES
L0004196	0	0.14820E-02	439901.0	3762452.2	215.6	4.15	12.09	1.93	YES
L0004197	0	0.14820E-02	439900.9	3762426.2	215.3	4.15	12.09	1.93	YES
L0004198	0	0.14820E-02	439900.8	3762400.2	215.0	4.15	12.09	1.93	YES
L0004199	0	0.14820E-02	439900.7	3762374.2	214.7	4.15	12.09	1.93	YES
L0004200	0	0.14820E-02	439900.6	3762348.2	214.4	4.15	12.09	1.93	YES
L0004201	0	0.14820E-02	439900.5	3762322.2	214.1	4.15	12.09	1.93	YES
L0004202	0	0.14820E-02	439900.4	3762296.2	213.9	4.15	12.09	1.93	YES
L0004203	0	0.14820E-02	439900.3	3762270.2	213.6	4.15	12.09	1.93	YES
L0004204	0	0.14820E-02	439900.2	3762244.2	213.3	4.15	12.09	1.93	YES
L0004205	0	0.14820E-02	439900.1	3762218.2	213.0	4.15	12.09	1.93	YES
L0004206	0	0.14820E-02	439900.0	3762192.2	212.7	4.15	12.09	1.93	YES
L0004207	0	0.14820E-02	439899.9	3762166.2	212.4	4.15	12.09	1.93	YES
L0004208	0	0.14820E-02	439899.8	3762140.2	212.1	4.15	12.09	1.93	YES
L0004209	0	0.14820E-02	439899.7	3762114.2	211.8	4.15	12.09	1.93	YES
L0004210	0	0.14820E-02	439899.6	3762088.2	211.5	4.15	12.09	1.93	YES
L0004211	0	0.14820E-02	439899.5	3762062.2	211.2	4.15	12.09	1.93	YES
L0004212	0	0.14820E-02	439899.4	3762036.2	210.9	4.15	12.09	1.93	YES
L0004213	0	0.14820E-02	439899.3	3762010.2	210.6	4.15	12.09	1.93	YES
L0004214	0	0.14820E-02	439899.2	3761984.2	210.3	4.15	12.09	1.93	YES
L0004215	0	0.14820E-02	439899.1	3761958.2	210.0	4.15	12.09	1.93	YES
L0004216	0	0.14820E-02	439899.0	3761932.2	209.7	4.15	12.09	1.93	YES
L0004217	0	0.14820E-02	439898.9	3761906.2	209.4	4.15	12.09	1.93	YES
L0004218	0	0.14820E-02	439898.8	3761880.2	209.1	4.15	12.09	1.93	YES
L0004219	0	0.14820E-02	439898.7	3761854.2	208.9	4.15	12.09	1.93	YES
L0004220	0	0.14820E-02	439898.6	3761828.2	208.6	4.15	12.09	1.93	YES
L0004221	0	0.14820E-02	439898.5	3761802.2	208.3	4.15	12.09	1.93	YES
L0004222	0	0.14820E-02	439898.4	3761776.2	208.0	4.15	12.09	1.93	YES
L0004223	0	0.14820E-02	439898.3	3761750.2	207.7	4.15	12.09	1.93	YES
L0004224	0	0.14820E-02	439898.2	3761724.2	207.4	4.15	12.09	1.93	YES
L0004225	0	0.14820E-02	439898.1	3761698.2	207.1	4.15	12.09	1.93	YES
L0004226	0	0.14820E-02	439898.0	3761672.2	206.8	4.15	12.09	1.93	YES
L0004227	0	0.14820E-02	439897.9	3761646.2	206.5	4.15	12.09	1.93	YES

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0004228	0	0.14820E-02	439897.8	3761620.2	206.2	4.15	12.09	1.93	YES	
L0004229	0	0.14820E-02	439897.7	3761594.2	205.9	4.15	12.09	1.93	YES	
L0004230	0	0.14820E-02	439897.6	3761568.2	205.6	4.15	12.09	1.93	YES	
L0004231	0	0.14820E-02	439897.5	3761542.2	205.3	4.15	12.09	1.93	YES	
L0004232	0	0.14820E-02	439897.4	3761516.2	205.0	4.15	12.09	1.93	YES	
L0004233	0	0.14820E-02	439897.3	3761490.2	204.7	4.15	12.09	1.93	YES	
L0004234	0	0.14820E-02	439897.2	3761464.2	204.4	4.15	12.09	1.93	YES	
L0004235	0	0.14820E-02	439897.1	3761438.2	204.1	4.15	12.09	1.93	YES	
L0004236	0	0.14820E-02	439897.0	3761412.2	203.8	4.15	12.09	1.93	YES	
L0004237	0	0.14820E-02	439896.9	3761386.2	203.6	4.15	12.09	1.93	YES	
L0004238	0	0.14820E-02	439896.8	3761360.2	203.3	4.15	12.09	1.93	YES	
L0004239	0	0.14820E-02	439896.7	3761334.2	203.0	4.15	12.09	1.93	YES	
L0004240	0	0.14820E-02	439896.6	3761308.2	202.7	4.15	12.09	1.93	YES	
L0004241	0	0.14820E-02	439896.5	3761282.2	202.4	4.15	12.09	1.93	YES	
L0004242	0	0.14820E-02	439896.4	3761256.2	202.1	4.15	12.09	1.93	YES	
L0004243	0	0.14820E-02	439896.3	3761230.2	201.9	4.15	12.09	1.93	YES	
L0004244	0	0.14820E-02	439896.2	3761204.2	201.7	4.15	12.09	1.93	YES	
L0004245	0	0.14820E-02	439896.1	3761178.2	201.5	4.15	12.09	1.93	YES	
L0004246	0	0.14820E-02	439896.0	3761152.2	201.2	4.15	12.09	1.93	YES	
L0004247	0	0.14820E-02	439896.0	3761126.2	201.0	4.15	12.09	1.93	YES	
L0004248	0	0.14820E-02	439895.9	3761100.2	200.8	4.15	12.09	1.93	YES	
L0004249	0	0.14820E-02	439895.8	3761074.2	200.6	4.15	12.09	1.93	YES	
L0004250	0	0.14820E-02	439895.7	3761048.2	200.4	4.15	12.09	1.93	YES	
L0004251	0	0.14820E-02	439895.6	3761022.2	200.2	4.15	12.09	1.93	YES	
L0004252	0	0.14820E-02	439895.6	3760996.2	200.0	4.15	12.09	1.93	YES	
L0004253	0	0.14820E-02	439895.5	3760970.2	199.7	4.15	12.09	1.93	YES	
L0004254	0	0.14820E-02	439895.4	3760944.2	199.5	4.15	12.09	1.93	YES	
L0004255	0	0.14820E-02	439895.3	3760918.2	199.3	4.15	12.09	1.93	YES	
L0004256	0	0.14820E-02	439895.2	3760892.2	199.1	4.15	12.09	1.93	YES	
L0004257	0	0.14820E-02	439895.2	3760866.2	198.9	4.15	12.09	1.93	YES	
L0004258	0	0.14820E-02	439895.1	3760840.3	198.7	4.15	12.09	1.93	YES	
L0004259	0	0.14820E-02	439895.0	3760814.3	198.4	4.15	12.09	1.93	YES	
L0004260	0	0.14820E-02	439894.9	3760788.3	198.2	4.15	12.09	1.93	YES	
L0004261	0	0.14820E-02	439894.8	3760762.3	198.0	4.15	12.09	1.93	YES	
L0004262	0	0.14820E-02	439894.8	3760736.3	197.8	4.15	12.09	1.93	YES	
L0004263	0	0.14820E-02	439894.7	3760710.3	197.6	4.15	12.09	1.93	YES	
L0004264	0	0.14820E-02	439894.6	3760684.3	197.3	4.15	12.09	1.93	YES	
L0004265	0	0.14820E-02	439894.5	3760658.3	197.1	4.15	12.09	1.93	YES	

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

L0004266	0	0.14820E-02	439894.4	3760632.3	196.9	4.15	12.09	1.93	YES
L0004267	0	0.14820E-02	439894.3	3760606.3	196.7	4.15	12.09	1.93	YES
L0004268	0	0.14820E-02	439894.3	3760580.3	196.5	4.15	12.09	1.93	YES
L0004269	0	0.14820E-02	439894.2	3760554.3	196.3	4.15	12.09	1.93	YES
L0004270	0	0.14820E-02	439894.1	3760528.3	196.0	4.15	12.09	1.93	YES
L0004271	0	0.14820E-02	439894.0	3760502.3	195.8	4.15	12.09	1.93	YES
L0004272	0	0.14820E-02	439893.9	3760476.3	195.6	4.15	12.09	1.93	YES
L0004273	0	0.14820E-02	439893.9	3760450.3	195.4	4.15	12.09	1.93	YES
L0004274	0	0.14820E-02	439893.8	3760424.3	195.2	4.15	12.09	1.93	YES
L0004275	0	0.14820E-02	439893.7	3760398.3	195.0	4.15	12.09	1.93	YES
L0004276	0	0.14820E-02	439893.6	3760372.3	194.7	4.15	12.09	1.93	YES
L0004277	0	0.14820E-02	439893.5	3760346.3	194.5	4.15	12.09	1.93	YES
L0004278	0	0.14820E-02	439893.5	3760320.3	194.3	4.15	12.09	1.93	YES
L0004279	0	0.14820E-02	439893.4	3760294.3	194.1	4.15	12.09	1.93	YES
L0004280	0	0.14820E-02	439893.3	3760268.3	193.9	4.15	12.09	1.93	YES
L0004281	0	0.14820E-02	439893.2	3760242.3	193.7	4.15	12.09	1.93	YES
L0004282	0	0.14820E-02	439893.1	3760216.3	193.4	4.15	12.09	1.93	YES
L0004283	0	0.14820E-02	439893.1	3760190.3	193.2	4.15	12.09	1.93	YES
L0004284	0	0.14820E-02	439893.0	3760164.3	193.0	4.15	12.09	1.93	YES
L0004285	0	0.14820E-02	439892.9	3760138.3	192.8	4.15	12.09	1.93	YES
L0004286	0	0.14820E-02	439892.8	3760112.3	192.6	4.15	12.09	1.93	YES
L0004287	0	0.14820E-02	439892.7	3760086.3	192.4	4.15	12.09	1.93	YES
L0004288	0	0.14820E-02	439892.7	3760060.3	192.1	4.15	12.09	1.93	YES
L0004289	0	0.14820E-02	439892.6	3760034.3	191.9	4.15	12.09	1.93	YES
L0004290	0	0.14820E-02	439892.5	3760008.3	191.7	4.15	12.09	1.93	YES
L0004291	0	0.14820E-02	439892.4	3759982.3	191.5	4.15	12.09	1.93	YES
L0004292	0	0.14820E-02	439892.3	3759956.3	191.3	4.15	12.09	1.93	YES
L0004293	0	0.14820E-02	439892.2	3759930.3	191.0	4.15	12.09	1.93	YES
L0004294	0	0.14820E-02	439892.2	3759904.3	190.8	4.15	12.09	1.93	YES
L0004295	0	0.14820E-02	439892.1	3759878.3	190.6	4.15	12.09	1.93	YES
L0004296	0	0.14820E-02	439892.0	3759852.3	190.4	4.15	12.09	1.93	YES
L0004297	0	0.14820E-02	439891.9	3759826.3	190.2	4.15	12.09	1.93	YES
L0004298	0	0.14820E-02	439891.8	3759800.3	190.0	4.15	12.09	1.93	YES
L0004299	0	0.14820E-02	439891.8	3759774.3	189.7	4.15	12.09	1.93	YES
L0004300	0	0.14820E-02	439891.7	3759748.3	189.5	4.15	12.09	1.93	YES
L0004301	0	0.14820E-02	439891.6	3759722.3	189.3	4.15	12.09	1.93	YES
L0004302	0	0.14820E-02	439891.5	3759696.3	189.1	4.15	12.09	1.93	YES
L0004303	0	0.14820E-02	439891.4	3759670.3	188.9	4.15	12.09	1.93	YES
L0004304	0	0.14820E-02	439891.4	3759644.3	188.7	4.15	12.09	1.93	YES
L0004305	0	0.14820E-02	439891.3	3759618.3	188.4	4.15	12.09	1.93	YES
L0004306	0	0.14820E-02	439891.2	3759592.3	188.2	4.15	12.09	1.93	YES
L0004307	0	0.14820E-02	439891.1	3759566.3	188.0	4.15	12.09	1.93	YES

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0004308	0	0.14820E-02	439891.0	3759540.3	187.8	4.15	12.09	1.93	YES	
L0004309	0	0.14820E-02	439891.0	3759514.3	187.6	4.15	12.09	1.93	YES	
L0004310	0	0.14820E-02	439890.9	3759488.3	187.4	4.15	12.09	1.93	YES	
L0004311	0	0.14820E-02	439890.8	3759462.3	187.1	4.15	12.09	1.93	YES	
L0004312	0	0.14820E-02	439890.7	3759436.3	186.9	4.15	12.09	1.93	YES	
L0004313	0	0.14820E-02	439890.6	3759410.3	186.7	4.15	12.09	1.93	YES	
L0004314	0	0.14820E-02	439890.6	3759384.3	186.5	4.15	12.09	1.93	YES	
L0004315	0	0.14820E-02	439890.5	3759358.3	186.3	4.15	12.09	1.93	YES	
L0004316	0	0.14820E-02	439890.4	3759332.3	186.1	4.15	12.09	1.93	YES	
L0004317	0	0.14820E-02	439890.3	3759306.3	185.8	4.15	12.09	1.93	YES	
L0004318	0	0.14820E-02	439890.2	3759280.3	185.6	4.15	12.09	1.93	YES	
L0004319	0	0.14820E-02	439890.1	3759254.3	185.4	4.15	12.09	1.93	YES	
L0004320	0	0.14820E-02	439890.1	3759228.3	185.2	4.15	12.09	1.93	YES	
L0004321	0	0.14820E-02	439890.0	3759202.3	185.0	4.15	12.09	1.93	YES	
L0004322	0	0.14820E-02	439889.9	3759176.3	184.8	4.15	12.09	1.93	YES	
L0004323	0	0.14820E-02	439889.8	3759150.3	184.5	4.15	12.09	1.93	YES	
L0004324	0	0.14820E-02	439889.7	3759124.3	184.3	4.15	12.09	1.93	YES	
L0004325	0	0.14820E-02	439889.7	3759098.3	184.1	4.15	12.09	1.93	YES	
L0004326	0	0.14820E-02	439889.6	3759072.3	183.9	4.15	12.09	1.93	YES	
L0004327	0	0.14820E-02	439889.5	3759046.3	183.7	4.15	12.09	1.93	YES	
L0004328	0	0.14820E-02	439889.4	3759020.3	183.4	4.15	12.09	1.93	YES	
L0004329	0	0.14820E-02	439889.3	3758994.3	183.2	4.15	12.09	1.93	YES	
L0004330	0	0.14820E-02	439889.3	3758968.3	183.0	4.15	12.09	1.93	YES	
L0004331	0	0.14820E-02	439889.2	3758942.3	182.8	4.15	12.09	1.93	YES	
L0004332	0	0.14820E-02	439889.1	3758916.3	182.6	4.15	12.09	1.93	YES	
L0004333	0	0.14820E-02	439889.0	3758890.3	182.4	4.15	12.09	1.93	YES	
L0004334	0	0.14820E-02	439888.9	3758864.3	182.1	4.15	12.09	1.93	YES	
L0004335	0	0.14820E-02	439888.9	3758838.3	181.9	4.15	12.09	1.93	YES	
L0004336	0	0.14820E-02	439888.8	3758812.3	181.7	4.15	12.09	1.93	YES	
L0004337	0	0.14820E-02	439888.7	3758786.3	181.5	4.15	12.09	1.93	YES	
L0004338	0	0.14820E-02	439888.6	3758760.3	181.3	4.15	12.09	1.93	YES	
L0004339	0	0.14820E-02	439888.5	3758734.3	181.1	4.15	12.09	1.93	YES	
L0004340	0	0.14820E-02	439888.5	3758708.3	180.8	4.15	12.09	1.93	YES	
L0004341	0	0.14820E-02	439888.4	3758682.3	180.6	4.15	12.09	1.93	YES	
L0004342	0	0.14820E-02	439888.3	3758656.3	180.4	4.15	12.09	1.93	YES	
L0004343	0	0.14820E-02	439888.2	3758630.3	180.2	4.15	12.09	1.93	YES	
L0004344	0	0.14820E-02	439888.1	3758604.3	180.0	4.15	12.09	1.93	YES	
L0004345	0	0.14820E-02	439888.0	3758578.3	179.8	4.15	12.09	1.93	YES	

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

L0004346	0	0.14820E-02	439887.8	3758552.3	179.5	4.15	12.09	1.93	YES
L0004347	0	0.14820E-02	439885.7	3758526.4	179.5	4.15	12.09	1.93	YES
L0004348	0	0.14820E-02	439884.5	3758500.4	179.3	4.15	12.09	1.93	YES
L0004349	0	0.14820E-02	439884.7	3758474.4	179.1	4.15	12.09	1.93	YES
L0004350	0	0.14820E-02	439885.0	3758448.4	178.9	4.15	12.09	1.93	YES
L0004351	0	0.14820E-02	439885.3	3758422.4	178.6	4.15	12.09	1.93	YES
L0004352	0	0.14820E-02	439885.6	3758396.4	178.4	4.15	12.09	1.93	YES
L0004353	0	0.14820E-02	439885.8	3758370.4	178.2	4.15	12.09	1.93	YES
L0004354	0	0.14820E-02	439886.1	3758344.4	178.0	4.15	12.09	1.93	YES
L0004355	0	0.14820E-02	439886.4	3758318.4	177.7	4.15	12.09	1.93	YES
L0004356	0	0.14820E-02	439886.7	3758292.4	177.5	4.15	12.09	1.93	YES
L0004357	0	0.14820E-02	439887.0	3758266.4	177.3	4.15	12.09	1.93	YES
L0004358	0	0.14820E-02	439887.2	3758240.4	177.0	4.15	12.09	1.93	YES
L0004359	0	0.14820E-02	439887.5	3758214.4	176.8	4.15	12.09	1.93	YES
L0004360	0	0.14820E-02	439887.8	3758188.4	176.6	4.15	12.09	1.93	YES
L0004361	0	0.14820E-02	439888.1	3758162.4	176.4	4.15	12.09	1.93	YES
L0004362	0	0.14820E-02	439888.3	3758136.4	176.1	4.15	12.09	1.93	YES
L0004363	0	0.14820E-02	439888.6	3758110.4	175.9	4.15	12.09	1.93	YES
L0004364	0	0.14820E-02	439888.9	3758084.4	175.7	4.15	12.09	1.93	YES
L0004365	0	0.14820E-02	439889.2	3758058.4	175.5	4.15	12.09	1.93	YES
L0004366	0	0.14820E-02	439888.6	3758032.4	175.2	4.15	12.09	1.93	YES
L0004367	0	0.14820E-02	439887.9	3758006.5	175.1	4.15	12.09	1.93	YES
L0004368	0	0.14820E-02	439887.3	3757980.5	174.9	4.15	12.09	1.93	YES
L0004369	0	0.14820E-02	439886.9	3757954.5	174.7	4.15	12.09	1.93	YES
L0004370	0	0.14820E-02	439887.5	3757928.5	174.5	4.15	12.09	1.93	YES
L0004371	0	0.14820E-02	439888.0	3757902.5	174.3	4.15	12.09	1.93	YES
L0004372	0	0.14820E-02	439888.6	3757876.5	174.1	4.15	12.09	1.93	YES
L0004373	0	0.14820E-02	439889.1	3757850.5	173.9	4.15	12.09	1.93	YES
L0004374	0	0.14820E-02	439889.7	3757824.5	173.8	4.15	12.09	1.93	YES
L0004375	0	0.14820E-02	439890.3	3757798.5	173.6	4.15	12.09	1.93	YES
L0004376	0	0.14820E-02	439890.8	3757772.5	173.4	4.15	12.09	1.93	YES
L0004377	0	0.14820E-02	439891.4	3757746.5	173.2	4.15	12.09	1.93	YES
L0004378	0	0.14820E-02	439891.9	3757720.5	173.0	4.15	12.09	1.93	YES
L0004379	0	0.14820E-02	439892.5	3757694.5	172.8	4.15	12.09	1.93	YES
L0004380	0	0.14820E-02	439893.1	3757668.5	172.6	4.15	12.09	1.93	YES
L0004381	0	0.14820E-02	439893.6	3757642.5	172.5	4.15	12.09	1.93	YES
L0004382	0	0.14820E-02	439894.1	3757616.5	172.3	4.15	12.09	1.93	YES
L0004383	0	0.14820E-02	439894.2	3757590.5	172.2	4.15	12.09	1.93	YES
L0004384	0	0.14820E-02	439894.4	3757564.5	172.2	4.15	12.09	1.93	YES
L0004385	0	0.14820E-02	439894.6	3757538.5	172.1	4.15	12.09	1.93	YES
L0004386	0	0.14820E-02	439894.7	3757512.5	172.0	4.15	12.09	1.93	YES
L0004387	0	0.14820E-02	439894.9	3757486.5	172.0	4.15	12.09	1.93	YES

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0004388	0	0.14820E-02	439895.1	3757460.5	171.9	4.15	12.09	1.93	YES	
L0004389	0	0.14820E-02	439895.5	3757434.6	171.9	4.15	12.09	1.93	YES	
L0004390	0	0.14820E-02	439896.4	3757408.6	171.8	4.15	12.09	1.93	YES	
L0004391	0	0.14820E-02	439897.2	3757382.6	171.8	4.15	12.09	1.93	YES	
L0004392	0	0.14820E-02	439898.0	3757356.6	171.8	4.15	12.09	1.93	YES	
L0004393	0	0.14820E-02	439898.9	3757330.6	171.8	4.15	12.09	1.93	YES	
L0004394	0	0.14820E-02	439899.7	3757304.6	171.8	4.15	12.09	1.93	YES	
L0004395	0	0.14820E-02	439900.6	3757278.6	171.8	4.15	12.09	1.93	YES	
L0004396	0	0.14820E-02	439901.4	3757252.7	171.8	4.15	12.09	1.93	YES	
L0004397	0	0.14820E-02	439902.3	3757226.7	171.8	4.15	12.09	1.93	YES	
L0004398	0	0.14820E-02	439903.1	3757200.7	171.8	4.15	12.09	1.93	YES	
L0004399	0	0.14820E-02	439903.6	3757174.7	171.7	4.15	12.09	1.93	YES	
L0004400	0	0.14820E-02	439903.4	3757148.7	171.6	4.15	12.09	1.93	YES	
L0004401	0	0.14820E-02	439903.3	3757122.7	171.6	4.15	12.09	1.93	YES	
L0004402	0	0.14820E-02	439903.1	3757096.7	171.5	4.15	12.09	1.93	YES	
L0004403	0	0.14820E-02	439902.9	3757070.7	171.4	4.15	12.09	1.93	YES	
L0004404	0	0.14820E-02	439902.8	3757044.7	171.3	4.15	12.09	1.93	YES	
L0004405	0	0.14820E-02	439902.6	3757018.7	171.2	4.15	12.09	1.93	YES	
L0004406	0	0.14820E-02	439902.0	3756992.7	171.1	4.15	12.09	1.93	YES	
L0004407	0	0.14820E-02	439898.7	3756966.9	171.2	4.15	12.09	1.93	YES	
L0004408	0	0.14820E-02	439895.4	3756941.1	171.2	4.15	12.09	1.93	YES	
L0004409	0	0.14820E-02	439892.2	3756915.3	171.2	4.15	12.09	1.93	YES	
L0004410	0	0.14820E-02	439888.9	3756889.5	171.2	4.15	12.09	1.93	YES	
L0004411	0	0.14820E-02	439885.6	3756863.8	171.3	4.15	12.09	1.93	YES	
L0004412	0	0.14820E-02	439882.4	3756838.0	171.3	4.15	12.09	1.93	YES	
L0004413	0	0.14820E-02	439876.9	3756812.6	171.1	4.15	12.09	1.93	YES	
L0004414	0	0.14820E-02	439869.2	3756787.8	170.8	4.15	12.09	1.93	YES	
L0004415	0	0.14820E-02	439861.5	3756763.0	170.5	4.15	12.09	1.93	YES	
L0004416	0	0.14820E-02	439853.8	3756738.1	170.2	4.15	12.09	1.93	YES	
L0004417	0	0.14820E-02	439846.2	3756713.3	169.9	4.15	12.09	1.93	YES	
L0004418	0	0.14820E-02	439838.5	3756688.4	169.6	4.15	12.09	1.93	YES	
L0004419	0	0.14820E-02	439830.8	3756663.6	169.3	4.15	12.09	1.93	YES	
L0004420	0	0.14820E-02	439823.1	3756638.8	169.0	4.15	12.09	1.93	YES	
L0004421	0	0.14820E-02	439815.5	3756613.9	168.7	4.15	12.09	1.93	YES	
L0004422	0	0.14820E-02	439807.8	3756589.1	168.3	4.15	12.09	1.93	YES	
L0004423	0	0.14820E-02	439800.1	3756564.2	168.0	4.15	12.09	1.93	YES	
L0004424	0	0.14820E-02	439792.4	3756539.4	167.7	4.15	12.09	1.93	YES	
L0004425	0	0.14820E-02	439784.7	3756514.6	167.4	4.15	12.09	1.93	YES	

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

L0004426	0	0.14820E-02	439777.1	3756489.7	167.1	4.15	12.09	1.93	YES
L0004427	0	0.14820E-02	439769.4	3756464.9	166.8	4.15	12.09	1.93	YES
L0004428	0	0.14820E-02	439761.7	3756440.0	166.5	4.15	12.09	1.93	YES
L0004429	0	0.14820E-02	439754.0	3756415.2	166.2	4.15	12.09	1.93	YES
L0004430	0	0.14820E-02	439746.4	3756390.4	165.8	4.15	12.09	1.93	YES
L0004431	0	0.14820E-02	439738.7	3756365.5	165.5	4.15	12.09	1.93	YES
L0004432	0	0.14820E-02	439731.0	3756340.7	165.2	4.15	12.09	1.93	YES
L0004433	0	0.14820E-02	439723.3	3756315.8	164.9	4.15	12.09	1.93	YES
L0004434	0	0.14820E-02	439715.7	3756291.0	164.6	4.15	12.09	1.93	YES
L0004435	0	0.14820E-02	439708.0	3756266.1	164.3	4.15	12.09	1.93	YES
L0004436	0	0.14820E-02	439700.3	3756241.3	164.0	4.15	12.09	1.93	YES
L0004437	0	0.14820E-02	439692.6	3756216.5	163.7	4.15	12.09	1.93	YES
L0004438	0	0.14820E-02	439684.9	3756191.6	163.4	4.15	12.09	1.93	YES
L0004439	0	0.14820E-02	439677.3	3756166.8	163.0	4.15	12.09	1.93	YES
L0004440	0	0.14820E-02	439669.3	3756142.0	162.8	4.15	12.09	1.93	YES
L0004441	0	0.14820E-02	439660.2	3756117.7	162.7	4.15	12.09	1.93	YES
L0004442	0	0.14820E-02	439651.0	3756093.4	162.5	4.15	12.09	1.93	YES
L0004443	0	0.14820E-02	439641.9	3756069.0	162.4	4.15	12.09	1.93	YES
L0004444	0	0.14820E-02	439632.7	3756044.7	162.3	4.15	12.09	1.93	YES
L0004445	0	0.14820E-02	439623.6	3756020.4	162.2	4.15	12.09	1.93	YES
L0004446	0	0.14820E-02	439615.6	3755995.6	162.1	4.15	12.09	1.93	YES
L0004447	0	0.14820E-02	439607.9	3755970.8	161.9	4.15	12.09	1.93	YES
L0004448	0	0.14820E-02	439600.2	3755945.9	161.7	4.15	12.09	1.93	YES
L0004449	0	0.14820E-02	439592.6	3755921.1	161.5	4.15	12.09	1.93	YES
L0004450	0	0.14820E-02	439584.9	3755896.2	161.4	4.15	12.09	1.93	YES
L0004451	0	0.14820E-02	439577.2	3755871.4	161.2	4.15	12.09	1.93	YES
L0004452	0	0.14820E-02	439569.6	3755846.6	161.0	4.15	12.09	1.93	YES
L0004453	0	0.14820E-02	439561.9	3755821.7	160.9	4.15	12.09	1.93	YES
L0004454	0	0.14820E-02	439554.3	3755796.9	160.7	4.15	12.09	1.93	YES
L0004455	0	0.14820E-02	439546.6	3755772.0	160.5	4.15	12.09	1.93	YES
L0004456	0	0.14820E-02	439538.9	3755747.2	160.3	4.15	12.09	1.93	YES
L0004457	0	0.14820E-02	439531.3	3755722.3	160.2	4.15	12.09	1.93	YES
L0004458	0	0.14820E-02	439523.6	3755697.5	160.0	4.15	12.09	1.93	YES
L0004459	0	0.14820E-02	439515.9	3755672.6	159.8	4.15	12.09	1.93	YES
L0004460	0	0.14820E-02	439508.3	3755647.8	159.6	4.15	12.09	1.93	YES
L0004461	0	0.14820E-02	439500.6	3755622.9	159.5	4.15	12.09	1.93	YES
L0004462	0	0.14820E-02	439493.0	3755598.1	159.3	4.15	12.09	1.93	YES
L0004463	0	0.14820E-02	439485.3	3755573.3	159.1	4.15	12.09	1.93	YES
L0004464	0	0.14820E-02	439477.6	3755548.4	159.0	4.15	12.09	1.93	YES
L0004465	0	0.14820E-02	439470.0	3755523.6	158.8	4.15	12.09	1.93	YES
L0004466	0	0.14820E-02	439462.3	3755498.7	158.6	4.15	12.09	1.93	YES
L0004467	0	0.14820E-02	439454.6	3755473.9	158.4	4.15	12.09	1.93	YES

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0004468	0	0.14820E-02	439447.0	3755449.0	158.3	4.15	12.09	1.93	YES	
L0004469	0	0.14820E-02	439439.3	3755424.2	158.1	4.15	12.09	1.93	YES	
L0004470	0	0.14820E-02	439431.7	3755399.3	157.9	4.15	12.09	1.93	YES	
L0004471	0	0.14820E-02	439424.0	3755374.5	157.7	4.15	12.09	1.93	YES	
L0004472	0	0.14820E-02	439416.1	3755349.7	158.3	4.15	12.09	1.93	YES	
L0004473	0	0.14820E-02	439408.1	3755325.0	159.0	4.15	12.09	1.93	YES	
L0004474	0	0.14820E-02	439400.1	3755300.2	159.7	4.15	12.09	1.93	YES	
L0004475	0	0.14820E-02	439392.2	3755275.5	160.4	4.15	12.09	1.93	YES	
L0004476	0	0.14820E-02	439384.2	3755250.7	161.1	4.15	12.09	1.93	YES	
L0004477	0	0.14820E-02	439376.2	3755226.0	161.8	4.15	12.09	1.93	YES	
L0004478	0	0.14820E-02	439368.3	3755201.2	162.5	4.15	12.09	1.93	YES	
L0004479	0	0.14820E-02	439360.3	3755176.5	163.2	4.15	12.09	1.93	YES	
L0004480	0	0.14820E-02	439352.3	3755151.7	163.9	4.15	12.09	1.93	YES	
L0004481	0	0.14820E-02	439344.4	3755127.0	164.6	4.15	12.09	1.93	YES	
L0004482	0	0.14820E-02	439336.4	3755102.2	165.3	4.15	12.09	1.93	YES	
L0004483	0	0.14820E-02	439328.4	3755077.5	166.0	4.15	12.09	1.93	YES	
L0004484	0	0.14820E-02	439320.5	3755052.7	166.7	4.15	12.09	1.93	YES	
L0004485	0	0.14820E-02	439312.5	3755028.0	167.4	4.15	12.09	1.93	YES	
L0004486	0	0.14820E-02	439304.5	3755003.2	168.1	4.15	12.09	1.93	YES	
L0004487	0	0.14820E-02	439296.6	3754978.5	168.8	4.15	12.09	1.93	YES	
L0004488	0	0.14820E-02	439288.6	3754953.8	169.5	4.15	12.09	1.93	YES	
L0004489	0	0.14820E-02	439280.6	3754929.0	170.2	4.15	12.09	1.93	YES	
L0004490	0	0.14820E-02	439271.3	3754904.9	171.0	4.15	12.09	1.93	YES	
L0004491	0	0.14820E-02	439256.5	3754883.5	172.3	4.15	12.09	1.93	YES	
L0004492	0	0.14820E-02	439241.7	3754862.1	173.6	4.15	12.09	1.93	YES	
L0004493	0	0.14820E-02	439227.0	3754840.7	174.9	4.15	12.09	1.93	YES	
L0004494	0	0.14820E-02	439212.2	3754819.3	176.2	4.15	12.09	1.93	YES	
L0004495	0	0.14820E-02	439197.5	3754797.9	177.5	4.15	12.09	1.93	YES	
L0004496	0	0.14820E-02	439181.3	3754777.7	178.5	4.15	12.09	1.93	YES	
L0004497	0	0.14820E-02	439162.9	3754759.3	179.0	4.15	12.09	1.93	YES	
L0004498	0	0.14820E-02	439144.5	3754740.9	179.5	4.15	12.09	1.93	YES	
L0004499	0	0.14820E-02	439126.1	3754722.6	180.0	4.15	12.09	1.93	YES	
L0004500	0	0.14820E-02	439106.3	3754705.8	179.2	4.15	12.09	1.93	YES	
L0004501	0	0.14820E-02	439085.4	3754690.4	177.1	4.15	12.09	1.93	YES	
L0004502	0	0.14820E-02	439064.4	3754675.1	175.1	4.15	12.09	1.93	YES	
L0004503	0	0.14820E-02	439042.6	3754661.0	174.2	4.15	12.09	1.93	YES	
L0004504	0	0.14820E-02	439019.2	3754649.8	175.8	4.15	12.09	1.93	YES	
L0004505	0	0.14820E-02	438995.7	3754638.6	177.3	4.15	12.09	1.93	YES	

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

L0004506	0	0.14820E-02	438972.3	3754627.3	178.9	4.15	12.09	1.93	YES
L0004507	0	0.14820E-02	438947.5	3754620.0	179.2	4.15	12.09	1.93	YES
L0004508	0	0.14820E-02	438922.1	3754614.6	178.8	4.15	12.09	1.93	YES
L0004509	0	0.14820E-02	438896.6	3754609.2	178.4	4.15	12.09	1.93	YES
L0004510	0	0.14820E-02	438871.2	3754603.8	178.0	4.15	12.09	1.93	YES
L0004511	0	0.14820E-02	438845.8	3754598.4	177.6	4.15	12.09	1.93	YES
L0004512	0	0.40000E-03	439899.9	3761270.6	202.2	4.15	3.26	1.93	YES
L0004513	0	0.40000E-03	439906.9	3761270.6	202.3	4.15	3.26	1.93	YES
L0004514	0	0.40000E-03	439913.9	3761270.6	202.3	4.15	3.26	1.93	YES
L0004515	0	0.40000E-03	439920.9	3761270.5	202.3	4.15	3.26	1.93	YES
L0004516	0	0.40000E-03	439927.9	3761270.5	202.3	4.15	3.26	1.93	YES
L0004517	0	0.40000E-03	439934.9	3761270.5	202.3	4.15	3.26	1.93	YES
L0004518	0	0.40000E-03	439941.9	3761270.5	202.3	4.15	3.26	1.93	YES
L0004519	0	0.40000E-03	439948.9	3761270.5	202.3	4.15	3.26	1.93	YES
L0004520	0	0.40000E-03	439955.9	3761270.4	202.3	4.15	3.26	1.93	YES
L0004521	0	0.40000E-03	439962.9	3761270.4	202.4	4.15	3.26	1.93	YES
L0004522	0	0.40000E-03	439969.9	3761270.4	202.4	4.15	3.26	1.93	YES
L0004523	0	0.40000E-03	439976.9	3761270.4	202.4	4.15	3.26	1.93	YES
L0004524	0	0.40000E-03	439983.9	3761270.4	202.4	4.15	3.26	1.93	YES
L0004525	0	0.40000E-03	439990.9	3761270.3	202.4	4.15	3.26	1.93	YES
L0004526	0	0.40000E-03	439997.9	3761270.3	202.4	4.15	3.26	1.93	YES
L0004527	0	0.40000E-03	440004.9	3761270.3	202.4	4.15	3.26	1.93	YES
L0004528	0	0.40000E-03	440011.9	3761270.3	202.4	4.15	3.26	1.93	YES
L0004529	0	0.40000E-03	440018.9	3761270.3	202.4	4.15	3.26	1.93	YES
L0004530	0	0.40000E-03	440025.9	3761270.2	202.5	4.15	3.26	1.93	YES
L0004531	0	0.40000E-03	440032.9	3761270.2	202.5	4.15	3.26	1.93	YES
L0004532	0	0.40000E-03	440039.9	3761270.2	202.5	4.15	3.26	1.93	YES
L0004533	0	0.40000E-03	440046.9	3761270.2	202.5	4.15	3.26	1.93	YES
L0004534	0	0.40000E-03	440053.9	3761270.1	202.5	4.15	3.26	1.93	YES
L0004535	0	0.40000E-03	440060.9	3761270.1	202.5	4.15	3.26	1.93	YES
L0004536	0	0.40000E-03	440067.9	3761270.1	202.5	4.15	3.26	1.93	YES
L0004537	0	0.40000E-03	440074.9	3761270.1	202.5	4.15	3.26	1.93	YES
L0004538	0	0.40000E-03	440081.9	3761270.1	202.5	4.15	3.26	1.93	YES
L0004539	0	0.40000E-03	440088.9	3761270.0	202.6	4.15	3.26	1.93	YES
L0004540	0	0.40000E-03	440095.9	3761270.0	202.6	4.15	3.26	1.93	YES
L0004541	0	0.40000E-03	440102.9	3761270.0	202.6	4.15	3.26	1.93	YES
L0004542	0	0.40000E-03	440109.9	3761270.0	202.6	4.15	3.26	1.93	YES
L0004543	0	0.40000E-03	440116.9	3761270.0	202.6	4.15	3.26	1.93	YES
L0004544	0	0.40000E-03	440123.9	3761269.9	202.6	4.15	3.26	1.93	YES
L0004545	0	0.40000E-03	440130.9	3761269.9	202.6	4.15	3.26	1.93	YES
L0004546	0	0.40000E-03	440137.9	3761269.9	202.6	4.15	3.26	1.93	YES
L0004547	0	0.40000E-03	440144.9	3761269.9	202.6	4.15	3.26	1.93	YES

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0004548	0	0.40000E-03	440151.9	3761269.9	202.7	4.15	3.26	1.93	YES	
L0004549	0	0.40000E-03	440158.9	3761269.8	202.7	4.15	3.26	1.93	YES	
L0004550	0	0.40000E-03	440165.9	3761269.8	202.7	4.15	3.26	1.93	YES	
L0004551	0	0.40000E-03	440172.9	3761269.8	202.7	4.15	3.26	1.93	YES	
L0004552	0	0.40000E-03	440179.9	3761269.8	202.7	4.15	3.26	1.93	YES	
L0004553	0	0.40000E-03	440186.9	3761269.7	202.7	4.15	3.26	1.93	YES	
L0004554	0	0.40000E-03	440193.9	3761269.7	202.7	4.15	3.26	1.93	YES	
L0004555	0	0.40000E-03	440200.9	3761269.7	202.7	4.15	3.26	1.93	YES	
L0004556	0	0.40000E-03	440207.9	3761269.7	202.7	4.15	3.26	1.93	YES	
L0004557	0	0.40000E-03	440214.9	3761269.7	202.8	4.15	3.26	1.93	YES	
L0004558	0	0.40000E-03	440221.9	3761269.6	202.8	4.15	3.26	1.93	YES	
L0004559	0	0.40000E-03	440228.9	3761269.6	202.8	4.15	3.26	1.93	YES	
L0004560	0	0.40000E-03	440235.9	3761269.6	202.8	4.15	3.26	1.93	YES	
L0004561	0	0.40000E-03	440242.9	3761269.6	202.8	4.15	3.26	1.93	YES	
L0004562	0	0.40000E-03	440249.9	3761269.6	202.8	4.15	3.26	1.93	YES	
L0004563	0	0.40000E-03	440256.9	3761269.5	202.8	4.15	3.26	1.93	YES	
L0004564	0	0.40000E-03	440263.9	3761269.5	202.8	4.15	3.26	1.93	YES	
L0004565	0	0.40000E-03	440270.9	3761269.5	202.8	4.15	3.26	1.93	YES	
L0004566	0	0.40000E-03	440277.9	3761269.5	202.9	4.15	3.26	1.93	YES	
L0004567	0	0.40000E-03	440284.9	3761269.4	202.9	4.15	3.26	1.93	YES	
L0004568	0	0.40000E-03	440291.9	3761269.4	202.9	4.15	3.26	1.93	YES	
L0004569	0	0.40000E-03	440298.9	3761269.4	202.9	4.15	3.26	1.93	YES	
L0004570	0	0.40000E-03	440305.9	3761269.4	202.9	4.15	3.26	1.93	YES	
L0004571	0	0.40000E-03	440312.9	3761269.4	202.9	4.15	3.26	1.93	YES	
L0004572	0	0.40000E-03	440319.9	3761269.3	202.9	4.15	3.26	1.93	YES	
L0004573	0	0.40000E-03	440326.9	3761269.3	202.9	4.15	3.26	1.93	YES	
L0004574	0	0.40000E-03	440333.9	3761269.3	202.9	4.15	3.26	1.93	YES	
L0004575	0	0.40000E-03	440340.9	3761269.3	203.0	4.15	3.26	1.93	YES	
L0004576	0	0.40000E-03	440347.9	3761269.3	203.0	4.15	3.26	1.93	YES	
L0004577	0	0.40000E-03	440354.9	3761269.2	203.0	4.15	3.26	1.93	YES	
L0004578	0	0.40000E-03	440361.9	3761269.2	203.0	4.15	3.26	1.93	YES	
L0004579	0	0.40000E-03	440368.9	3761269.2	203.0	4.15	3.26	1.93	YES	
L0004580	0	0.40000E-03	440375.9	3761269.2	203.0	4.15	3.26	1.93	YES	
L0004581	0	0.40000E-03	440382.9	3761269.2	203.0	4.15	3.26	1.93	YES	
L0004582	0	0.43077E-03	439897.8	3760464.9	193.8	4.15	3.49	1.93	YES	
L0004583	0	0.43077E-03	439905.3	3760464.9	193.8	4.15	3.49	1.93	YES	
L0004584	0	0.43077E-03	439912.8	3760465.0	193.8	4.15	3.49	1.93	YES	

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

L0004585	0	0.43077E-03	439920.3	3760465.0	193.8	4.15	3.49	1.93	YES
L0004586	0	0.43077E-03	439927.8	3760465.0	193.9	4.15	3.49	1.93	YES
L0004587	0	0.43077E-03	439935.3	3760465.1	193.9	4.15	3.49	1.93	YES
L0004588	0	0.43077E-03	439942.8	3760465.1	193.9	4.15	3.49	1.93	YES
L0004589	0	0.43077E-03	439950.3	3760465.1	193.9	4.15	3.49	1.93	YES
L0004590	0	0.43077E-03	439957.8	3760465.1	194.0	4.15	3.49	1.93	YES
L0004591	0	0.43077E-03	439965.3	3760465.2	194.0	4.15	3.49	1.93	YES
L0004592	0	0.43077E-03	439972.8	3760465.2	194.0	4.15	3.49	1.93	YES
L0004593	0	0.43077E-03	439980.3	3760465.2	194.0	4.15	3.49	1.93	YES
L0004594	0	0.43077E-03	439987.8	3760465.3	194.0	4.15	3.49	1.93	YES
L0004595	0	0.43077E-03	439995.3	3760465.3	194.1	4.15	3.49	1.93	YES
L0004596	0	0.43077E-03	440002.8	3760465.3	194.1	4.15	3.49	1.93	YES
L0004597	0	0.43077E-03	440010.3	3760465.4	194.1	4.15	3.49	1.93	YES
L0004598	0	0.43077E-03	440017.8	3760465.4	194.1	4.15	3.49	1.93	YES
L0004599	0	0.43077E-03	440025.3	3760465.4	194.2	4.15	3.49	1.93	YES
L0004600	0	0.43077E-03	440032.8	3760465.4	194.2	4.15	3.49	1.93	YES
L0004601	0	0.43077E-03	440040.3	3760465.5	194.2	4.15	3.49	1.93	YES
L0004602	0	0.43077E-03	440047.8	3760465.5	194.2	4.15	3.49	1.93	YES
L0004603	0	0.43077E-03	440055.3	3760465.5	194.2	4.15	3.49	1.93	YES
L0004604	0	0.43077E-03	440062.8	3760465.6	194.3	4.15	3.49	1.93	YES
L0004605	0	0.43077E-03	440070.3	3760465.6	194.3	4.15	3.49	1.93	YES
L0004606	0	0.43077E-03	440077.8	3760465.6	194.3	4.15	3.49	1.93	YES
L0004607	0	0.43077E-03	440085.3	3760465.7	194.4	4.15	3.49	1.93	YES
L0004608	0	0.43077E-03	440092.8	3760465.7	194.4	4.15	3.49	1.93	YES
L0004609	0	0.43077E-03	440100.3	3760465.7	194.4	4.15	3.49	1.93	YES
L0004610	0	0.43077E-03	440107.8	3760465.7	194.4	4.15	3.49	1.93	YES
L0004611	0	0.43077E-03	440115.3	3760465.8	194.4	4.15	3.49	1.93	YES
L0004612	0	0.43077E-03	440122.8	3760465.8	194.5	4.15	3.49	1.93	YES
L0004613	0	0.43077E-03	440130.3	3760465.8	194.5	4.15	3.49	1.93	YES
L0004614	0	0.43077E-03	440137.8	3760465.9	194.5	4.15	3.49	1.93	YES
L0004615	0	0.43077E-03	440145.3	3760465.9	194.5	4.15	3.49	1.93	YES
L0004616	0	0.43077E-03	440152.8	3760465.9	194.6	4.15	3.49	1.93	YES
L0004617	0	0.43077E-03	440160.3	3760466.0	194.6	4.15	3.49	1.93	YES
L0004618	0	0.43077E-03	440167.8	3760466.0	194.6	4.15	3.49	1.93	YES
L0004619	0	0.43077E-03	440175.3	3760466.0	194.6	4.15	3.49	1.93	YES
L0004620	0	0.43077E-03	440182.8	3760466.0	194.7	4.15	3.49	1.93	YES
L0004621	0	0.43077E-03	440190.3	3760466.1	194.7	4.15	3.49	1.93	YES
L0004622	0	0.43077E-03	440197.8	3760466.1	194.7	4.15	3.49	1.93	YES
L0004623	0	0.43077E-03	440205.3	3760466.1	194.7	4.15	3.49	1.93	YES
L0004624	0	0.43077E-03	440212.8	3760466.2	194.7	4.15	3.49	1.93	YES
L0004625	0	0.43077E-03	440220.3	3760466.2	194.8	4.15	3.49	1.93	YES
L0004626	0	0.43077E-03	440227.8	3760466.2	194.8	4.15	3.49	1.93	YES
L0004627	0	0.43077E-03	440235.3	3760466.3	194.8	4.15	3.49	1.93	YES

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0004628	0	0.43077E-03	440242.8	3760466.3	194.8	4.15	3.49	1.93	YES	
L0004629	0	0.43077E-03	440250.3	3760466.3	194.9	4.15	3.49	1.93	YES	
L0004630	0	0.43077E-03	440257.8	3760466.3	194.9	4.15	3.49	1.93	YES	
L0004631	0	0.43077E-03	440265.3	3760466.4	194.9	4.15	3.49	1.93	YES	
L0004632	0	0.43077E-03	440272.8	3760466.4	194.9	4.15	3.49	1.93	YES	
L0004633	0	0.43077E-03	440280.3	3760466.4	195.0	4.15	3.49	1.93	YES	
L0004634	0	0.43077E-03	440287.8	3760466.5	195.0	4.15	3.49	1.93	YES	
L0004635	0	0.43077E-03	440295.3	3760466.5	195.0	4.15	3.49	1.93	YES	
L0004636	0	0.43077E-03	440302.8	3760466.5	195.0	4.15	3.49	1.93	YES	
L0004637	0	0.43077E-03	440310.3	3760466.6	195.1	4.15	3.49	1.93	YES	
L0004638	0	0.43077E-03	440317.8	3760466.6	195.1	4.15	3.49	1.93	YES	
L0004639	0	0.43077E-03	440325.3	3760466.6	195.1	4.15	3.49	1.93	YES	
L0004640	0	0.43077E-03	440332.8	3760466.6	195.1	4.15	3.49	1.93	YES	
L0004641	0	0.43077E-03	440340.3	3760466.7	195.1	4.15	3.49	1.93	YES	
L0004642	0	0.43077E-03	440347.8	3760466.7	195.2	4.15	3.49	1.93	YES	
L0004643	0	0.43077E-03	440355.3	3760466.7	195.2	4.15	3.49	1.93	YES	
L0004644	0	0.43077E-03	440362.8	3760466.8	195.2	4.15	3.49	1.93	YES	
L0004645	0	0.43077E-03	440370.3	3760466.8	195.2	4.15	3.49	1.93	YES	
L0004646	0	0.43077E-03	440377.8	3760466.8	195.3	4.15	3.49	1.93	YES	
L0004647	0	0.69697E-03	440386.9	3761262.5	202.9	4.15	5.67	1.93	YES	
L0004648	0	0.69697E-03	440386.9	3761250.3	202.8	4.15	5.67	1.93	YES	
L0004649	0	0.69697E-03	440386.9	3761238.1	202.7	4.15	5.67	1.93	YES	
L0004650	0	0.69697E-03	440386.8	3761225.9	202.6	4.15	5.67	1.93	YES	
L0004651	0	0.69697E-03	440386.8	3761213.7	202.5	4.15	5.67	1.93	YES	
L0004652	0	0.69697E-03	440386.8	3761201.5	202.4	4.15	5.67	1.93	YES	
L0004653	0	0.69697E-03	440386.8	3761189.3	202.2	4.15	5.67	1.93	YES	
L0004654	0	0.69697E-03	440386.8	3761177.1	202.1	4.15	5.67	1.93	YES	
L0004655	0	0.69697E-03	440386.8	3761164.9	202.0	4.15	5.67	1.93	YES	
L0004656	0	0.69697E-03	440386.8	3761152.7	201.9	4.15	5.67	1.93	YES	
L0004657	0	0.69697E-03	440386.8	3761140.5	201.8	4.15	5.67	1.93	YES	
L0004658	0	0.69697E-03	440386.7	3761128.3	201.7	4.15	5.67	1.93	YES	
L0004659	0	0.69697E-03	440386.7	3761116.1	201.5	4.15	5.67	1.93	YES	
L0004660	0	0.69697E-03	440386.7	3761103.9	201.4	4.15	5.67	1.93	YES	
L0004661	0	0.69697E-03	440386.7	3761091.7	201.3	4.15	5.67	1.93	YES	
L0004662	0	0.69697E-03	440386.7	3761079.5	201.2	4.15	5.67	1.93	YES	
L0004663	0	0.69697E-03	440386.7	3761067.3	201.1	4.15	5.67	1.93	YES	
L0004664	0	0.69697E-03	440386.7	3761055.1	201.0	4.15	5.67	1.93	YES	

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

L0004665	0	0.69697E-03	440386.6	3761042.9	200.8	4.15	5.67	1.93	YES
L0004666	0	0.69697E-03	440386.6	3761030.7	200.7	4.15	5.67	1.93	YES
L0004667	0	0.69697E-03	440386.6	3761018.5	200.6	4.15	5.67	1.93	YES
L0004668	0	0.69697E-03	440386.6	3761006.3	200.5	4.15	5.67	1.93	YES
L0004669	0	0.69697E-03	440386.6	3760994.1	200.4	4.15	5.67	1.93	YES
L0004670	0	0.69697E-03	440386.6	3760981.9	200.2	4.15	5.67	1.93	YES
L0004671	0	0.69697E-03	440386.6	3760969.7	200.1	4.15	5.67	1.93	YES
L0004672	0	0.69697E-03	440386.5	3760957.5	200.0	4.15	5.67	1.93	YES
L0004673	0	0.69697E-03	440386.5	3760945.3	199.9	4.15	5.67	1.93	YES
L0004674	0	0.69697E-03	440386.5	3760933.1	199.8	4.15	5.67	1.93	YES
L0004675	0	0.69697E-03	440386.5	3760920.9	199.7	4.15	5.67	1.93	YES
L0004676	0	0.69697E-03	440386.5	3760908.7	199.5	4.15	5.67	1.93	YES
L0004677	0	0.69697E-03	440386.5	3760896.5	199.4	4.15	5.67	1.93	YES
L0004678	0	0.69697E-03	440386.5	3760884.3	199.3	4.15	5.67	1.93	YES
L0004679	0	0.69697E-03	440386.4	3760872.1	199.2	4.15	5.67	1.93	YES
L0004680	0	0.69697E-03	440386.4	3760859.9	199.1	4.15	5.67	1.93	YES
L0004681	0	0.69697E-03	440386.4	3760847.7	199.0	4.15	5.67	1.93	YES
L0004682	0	0.69697E-03	440386.4	3760835.5	198.8	4.15	5.67	1.93	YES
L0004683	0	0.69697E-03	440386.4	3760823.3	198.7	4.15	5.67	1.93	YES
L0004684	0	0.69697E-03	440386.4	3760811.1	198.6	4.15	5.67	1.93	YES
L0004685	0	0.69697E-03	440386.4	3760798.9	198.5	4.15	5.67	1.93	YES
L0004686	0	0.69697E-03	440386.4	3760786.7	198.4	4.15	5.67	1.93	YES
L0004687	0	0.69697E-03	440386.3	3760774.5	198.2	4.15	5.67	1.93	YES
L0004688	0	0.69697E-03	440386.3	3760762.3	198.1	4.15	5.67	1.93	YES
L0004689	0	0.69697E-03	440386.3	3760750.1	198.0	4.15	5.67	1.93	YES
L0004690	0	0.69697E-03	440386.3	3760737.9	197.9	4.15	5.67	1.93	YES
L0004691	0	0.69697E-03	440386.3	3760725.7	197.8	4.15	5.67	1.93	YES
L0004692	0	0.69697E-03	440386.3	3760713.5	197.7	4.15	5.67	1.93	YES
L0004693	0	0.69697E-03	440386.3	3760701.3	197.5	4.15	5.67	1.93	YES
L0004694	0	0.69697E-03	440386.2	3760689.1	197.4	4.15	5.67	1.93	YES
L0004695	0	0.69697E-03	440386.2	3760676.9	197.3	4.15	5.67	1.93	YES
L0004696	0	0.69697E-03	440386.2	3760664.7	197.2	4.15	5.67	1.93	YES
L0004697	0	0.69697E-03	440386.2	3760652.5	197.1	4.15	5.67	1.93	YES
L0004698	0	0.69697E-03	440386.2	3760640.3	197.0	4.15	5.67	1.93	YES
L0004699	0	0.69697E-03	440386.2	3760628.1	196.8	4.15	5.67	1.93	YES
L0004700	0	0.69697E-03	440386.2	3760615.9	196.7	4.15	5.67	1.93	YES
L0004701	0	0.69697E-03	440386.1	3760603.7	196.6	4.15	5.67	1.93	YES
L0004702	0	0.69697E-03	440386.1	3760591.5	196.5	4.15	5.67	1.93	YES
L0004703	0	0.69697E-03	440386.1	3760579.3	196.4	4.15	5.67	1.93	YES
L0004704	0	0.69697E-03	440386.1	3760567.1	196.2	4.15	5.67	1.93	YES
L0004705	0	0.69697E-03	440386.1	3760554.9	196.1	4.15	5.67	1.93	YES
L0004706	0	0.69697E-03	440386.1	3760542.7	196.0	4.15	5.67	1.93	YES
L0004707	0	0.69697E-03	440386.1	3760530.5	195.9	4.15	5.67	1.93	YES

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0004708	0	0.69697E-03	440386.0	3760518.3	195.8	4.15	5.67	1.93	YES	
L0004709	0	0.69697E-03	440386.0	3760506.1	195.7	4.15	5.67	1.93	YES	
L0004710	0	0.69697E-03	440386.0	3760493.9	195.6	4.15	5.67	1.93	YES	
L0004711	0	0.69697E-03	440386.0	3760481.7	195.4	4.15	5.67	1.93	YES	
L0004712	0	0.69697E-03	440386.0	3760469.5	195.3	4.15	5.67	1.93	YES	
L0004713	0	0.23016E-03	439938.5	3765651.4	253.6	4.15	1.86	1.93	YES	
L0004714	0	0.23016E-03	439942.4	3765651.8	253.7	4.15	1.86	1.93	YES	
L0004715	0	0.23016E-03	439946.4	3765652.3	253.8	4.15	1.86	1.93	YES	
L0004716	0	0.23016E-03	439950.4	3765652.7	253.8	4.15	1.86	1.93	YES	
L0004717	0	0.23016E-03	439954.4	3765653.1	253.9	4.15	1.86	1.93	YES	
L0004718	0	0.23016E-03	439958.4	3765653.6	254.0	4.15	1.86	1.93	YES	
L0004719	0	0.23016E-03	439962.3	3765654.0	254.1	4.15	1.86	1.93	YES	
L0004720	0	0.23016E-03	439966.3	3765654.4	254.1	4.15	1.86	1.93	YES	
L0004721	0	0.23016E-03	439970.3	3765654.8	254.2	4.15	1.86	1.93	YES	
L0004722	0	0.23016E-03	439974.3	3765655.3	254.3	4.15	1.86	1.93	YES	
L0004723	0	0.23016E-03	439978.2	3765655.7	254.4	4.15	1.86	1.93	YES	
L0004724	0	0.23016E-03	439982.2	3765656.1	254.4	4.15	1.86	1.93	YES	
L0004725	0	0.23016E-03	439986.2	3765656.6	254.5	4.15	1.86	1.93	YES	
L0004726	0	0.23016E-03	439990.2	3765657.0	254.6	4.15	1.86	1.93	YES	
L0004727	0	0.23016E-03	439994.1	3765657.4	254.7	4.15	1.86	1.93	YES	
L0004728	0	0.23016E-03	439998.1	3765657.8	254.7	4.15	1.86	1.93	YES	
L0004729	0	0.23016E-03	440002.1	3765658.3	254.8	4.15	1.86	1.93	YES	
L0004730	0	0.23016E-03	440006.1	3765658.7	254.9	4.15	1.86	1.93	YES	
L0004731	0	0.23016E-03	440010.1	3765659.1	255.0	4.15	1.86	1.93	YES	
L0004732	0	0.23016E-03	440014.0	3765659.6	255.0	4.15	1.86	1.93	YES	
L0004733	0	0.23016E-03	440018.0	3765660.0	255.1	4.15	1.86	1.93	YES	
L0004734	0	0.23016E-03	440022.0	3765660.4	255.2	4.15	1.86	1.93	YES	
L0004735	0	0.23016E-03	440026.0	3765660.8	255.3	4.15	1.86	1.93	YES	
L0004736	0	0.23016E-03	440029.9	3765661.3	255.3	4.15	1.86	1.93	YES	
L0004737	0	0.23016E-03	440033.9	3765661.7	255.4	4.15	1.86	1.93	YES	
L0004738	0	0.23016E-03	440037.9	3765662.1	255.5	4.15	1.86	1.93	YES	
L0004739	0	0.23016E-03	440041.9	3765662.6	255.6	4.15	1.86	1.93	YES	
L0004740	0	0.23016E-03	440045.8	3765663.0	255.6	4.15	1.86	1.93	YES	
L0004741	0	0.23016E-03	440049.8	3765663.4	255.7	4.15	1.86	1.93	YES	
L0004742	0	0.23016E-03	440053.8	3765663.8	255.8	4.15	1.86	1.93	YES	
L0004743	0	0.23016E-03	440057.8	3765664.3	255.9	4.15	1.86	1.93	YES	
L0004744	0	0.23016E-03	440061.8	3765664.7	255.9	4.15	1.86	1.93	YES	

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

L0004745	0	0.23016E-03	440065.7	3765665.1	256.0	4.15	1.86	1.93	YES
L0004746	0	0.23016E-03	440069.7	3765665.6	256.1	4.15	1.86	1.93	YES
L0004747	0	0.23016E-03	440073.7	3765666.0	256.2	4.15	1.86	1.93	YES
L0004748	0	0.23016E-03	440077.7	3765666.4	256.2	4.15	1.86	1.93	YES
L0004749	0	0.23016E-03	440081.6	3765666.8	256.3	4.15	1.86	1.93	YES
L0004750	0	0.23016E-03	440085.6	3765667.3	256.4	4.15	1.86	1.93	YES
L0004751	0	0.23016E-03	440089.6	3765667.7	256.5	4.15	1.86	1.93	YES
L0004752	0	0.23016E-03	440093.6	3765668.1	256.5	4.15	1.86	1.93	YES
L0004753	0	0.23016E-03	440097.5	3765668.6	256.6	4.15	1.86	1.93	YES
L0004754	0	0.23016E-03	440101.5	3765669.0	256.7	4.15	1.86	1.93	YES
L0004755	0	0.23016E-03	440105.5	3765669.4	256.8	4.15	1.86	1.93	YES
L0004756	0	0.23016E-03	440109.5	3765669.8	256.8	4.15	1.86	1.93	YES
L0004757	0	0.23016E-03	440113.5	3765670.3	256.9	4.15	1.86	1.93	YES
L0004758	0	0.23016E-03	440117.4	3765670.7	257.0	4.15	1.86	1.93	YES
L0004759	0	0.23016E-03	440121.4	3765671.1	257.1	4.15	1.86	1.93	YES
L0004760	0	0.23016E-03	440125.4	3765671.6	257.1	4.15	1.86	1.93	YES
L0004761	0	0.23016E-03	440129.4	3765672.0	257.2	4.15	1.86	1.93	YES
L0004762	0	0.23016E-03	440133.3	3765672.4	257.3	4.15	1.86	1.93	YES
L0004763	0	0.23016E-03	440137.3	3765672.8	257.4	4.15	1.86	1.93	YES
L0004764	0	0.23016E-03	440141.3	3765673.3	257.4	4.15	1.86	1.93	YES
L0004765	0	0.23016E-03	440145.3	3765673.7	257.5	4.15	1.86	1.93	YES
L0004766	0	0.23016E-03	440149.2	3765674.1	257.6	4.15	1.86	1.93	YES
L0004767	0	0.23016E-03	440153.2	3765674.6	257.7	4.15	1.86	1.93	YES
L0004768	0	0.23016E-03	440157.2	3765675.0	257.7	4.15	1.86	1.93	YES
L0004769	0	0.23016E-03	440161.2	3765675.4	257.8	4.15	1.86	1.93	YES
L0004770	0	0.23016E-03	440165.2	3765675.9	257.9	4.15	1.86	1.93	YES
L0004771	0	0.23016E-03	440169.1	3765676.3	257.9	4.15	1.86	1.93	YES
L0004772	0	0.23016E-03	440173.1	3765676.7	258.0	4.15	1.86	1.93	YES
L0004773	0	0.23016E-03	440177.1	3765677.1	258.1	4.15	1.86	1.93	YES
L0004774	0	0.23016E-03	440181.1	3765677.6	258.2	4.15	1.86	1.93	YES
L0004775	0	0.23016E-03	440185.0	3765678.0	258.2	4.15	1.86	1.93	YES
L0004776	0	0.23016E-03	440189.0	3765678.4	258.3	4.15	1.86	1.93	YES
L0004777	0	0.23016E-03	440193.0	3765678.9	258.4	4.15	1.86	1.93	YES
L0004778	0	0.23016E-03	440197.0	3765679.3	258.5	4.15	1.86	1.93	YES
L0004779	0	0.23016E-03	440200.9	3765679.7	258.6	4.15	1.86	1.93	YES
L0004780	0	0.23016E-03	440204.9	3765680.1	258.6	4.15	1.86	1.93	YES
L0004781	0	0.23016E-03	440208.9	3765680.6	258.7	4.15	1.86	1.93	YES
L0004782	0	0.23016E-03	440212.9	3765681.0	258.8	4.15	1.86	1.93	YES
L0004783	0	0.23016E-03	440216.9	3765681.4	258.9	4.15	1.86	1.93	YES
L0004784	0	0.23016E-03	440220.8	3765681.9	258.9	4.15	1.86	1.93	YES
L0004785	0	0.23016E-03	440224.8	3765682.3	259.0	4.15	1.86	1.93	YES
L0004786	0	0.23016E-03	440228.8	3765682.7	259.1	4.15	1.86	1.93	YES
L0004787	0	0.23016E-03	440232.8	3765683.1	259.2	4.15	1.86	1.93	YES

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0004788	0	0.23016E-03	440236.7	3765683.6	259.2	4.15	1.86	1.93	YES	
L0004789	0	0.23016E-03	440240.7	3765684.0	259.3	4.15	1.86	1.93	YES	
L0004790	0	0.23016E-03	440244.7	3765684.4	259.4	4.15	1.86	1.93	YES	
L0004791	0	0.23016E-03	440248.7	3765684.9	259.4	4.15	1.86	1.93	YES	
L0004792	0	0.23016E-03	440252.6	3765685.3	259.5	4.15	1.86	1.93	YES	
L0004793	0	0.23016E-03	440256.6	3765685.7	259.6	4.15	1.86	1.93	YES	
L0004794	0	0.23016E-03	440260.6	3765686.1	259.7	4.15	1.86	1.93	YES	
L0004795	0	0.23016E-03	440264.6	3765686.6	259.8	4.15	1.86	1.93	YES	
L0004796	0	0.23016E-03	440268.6	3765687.0	259.8	4.15	1.86	1.93	YES	
L0004797	0	0.23016E-03	440272.5	3765687.4	259.9	4.15	1.86	1.93	YES	
L0004798	0	0.23016E-03	440276.5	3765687.9	260.0	4.15	1.86	1.93	YES	
L0004799	0	0.23016E-03	440280.5	3765688.3	260.1	4.15	1.86	1.93	YES	
L0004800	0	0.23016E-03	440284.5	3765688.7	260.1	4.15	1.86	1.93	YES	
L0004801	0	0.23016E-03	440288.4	3765689.1	260.2	4.15	1.86	1.93	YES	
L0004802	0	0.23016E-03	440292.4	3765689.6	260.3	4.15	1.86	1.93	YES	
L0004803	0	0.23016E-03	440296.4	3765689.9	260.3	4.15	1.86	1.93	YES	
L0004804	0	0.23016E-03	440300.4	3765690.2	260.2	4.15	1.86	1.93	YES	
L0004805	0	0.23016E-03	440304.4	3765690.5	260.2	4.15	1.86	1.93	YES	
L0004806	0	0.23016E-03	440308.4	3765690.8	260.2	4.15	1.86	1.93	YES	
L0004807	0	0.23016E-03	440312.4	3765691.1	260.2	4.15	1.86	1.93	YES	
L0004808	0	0.23016E-03	440316.3	3765691.4	260.2	4.15	1.86	1.93	YES	
L0004809	0	0.23016E-03	440320.3	3765691.7	260.2	4.15	1.86	1.93	YES	
L0004810	0	0.23016E-03	440324.3	3765692.0	260.1	4.15	1.86	1.93	YES	
L0004811	0	0.23016E-03	440328.3	3765692.3	260.1	4.15	1.86	1.93	YES	
L0004812	0	0.23016E-03	440332.3	3765692.6	260.1	4.15	1.86	1.93	YES	
L0004813	0	0.23016E-03	440336.3	3765692.9	260.1	4.15	1.86	1.93	YES	
L0004814	0	0.23016E-03	440340.3	3765693.2	260.1	4.15	1.86	1.93	YES	
L0004815	0	0.23016E-03	440344.3	3765693.5	260.1	4.15	1.86	1.93	YES	
L0004816	0	0.23016E-03	440348.3	3765693.8	260.0	4.15	1.86	1.93	YES	
L0004817	0	0.23016E-03	440352.2	3765694.1	260.0	4.15	1.86	1.93	YES	
L0004818	0	0.23016E-03	440356.2	3765694.5	260.0	4.15	1.86	1.93	YES	
L0004819	0	0.23016E-03	440360.2	3765694.8	260.0	4.15	1.86	1.93	YES	
L0004820	0	0.23016E-03	440364.2	3765695.1	260.0	4.15	1.86	1.93	YES	
L0004821	0	0.23016E-03	440368.2	3765695.4	259.9	4.15	1.86	1.93	YES	
L0004822	0	0.23016E-03	440372.2	3765695.7	259.9	4.15	1.86	1.93	YES	
L0004823	0	0.23016E-03	440376.2	3765696.0	259.9	4.15	1.86	1.93	YES	
L0004824	0	0.23016E-03	440380.2	3765696.3	259.9	4.15	1.86	1.93	YES	
L0004825	0	0.23016E-03	440384.1	3765696.6	259.9	4.15	1.86	1.93	YES	

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

L0004826	0	0.23016E-03	440388.1	3765696.9	259.9	4.15	1.86	1.93	YES
L0004827	0	0.23016E-03	440392.1	3765697.2	259.8	4.15	1.86	1.93	YES
L0004828	0	0.23016E-03	440396.1	3765697.5	259.8	4.15	1.86	1.93	YES
L0004829	0	0.23016E-03	440400.1	3765697.8	259.8	4.15	1.86	1.93	YES
L0004830	0	0.23016E-03	440404.1	3765698.1	259.8	4.15	1.86	1.93	YES
L0004831	0	0.23016E-03	440408.1	3765698.4	259.8	4.15	1.86	1.93	YES
L0004832	0	0.23016E-03	440412.1	3765698.7	259.8	4.15	1.86	1.93	YES
L0004833	0	0.23016E-03	440416.1	3765699.0	259.7	4.15	1.86	1.93	YES
L0004834	0	0.23016E-03	440420.0	3765699.3	259.7	4.15	1.86	1.93	YES
L0004835	0	0.23016E-03	440424.0	3765699.6	259.7	4.15	1.86	1.93	YES
L0004836	0	0.23016E-03	440428.0	3765699.9	259.7	4.15	1.86	1.93	YES
L0004837	0	0.23016E-03	440432.0	3765700.2	259.7	4.15	1.86	1.93	YES
L0004838	0	0.23016E-03	440436.0	3765700.5	259.6	4.15	1.86	1.93	YES
L0004839	0	0.65217E-03	440450.9	3765735.8	259.5	4.15	5.35	1.93	YES
L0004840	0	0.65217E-03	440439.5	3765736.8	259.5	4.15	5.35	1.93	YES
L0004841	0	0.65217E-03	440428.0	3765737.8	259.5	4.15	5.35	1.93	YES
L0004842	0	0.65217E-03	440416.6	3765738.7	259.5	4.15	5.35	1.93	YES
L0004843	0	0.65217E-03	440405.1	3765739.7	259.5	4.15	5.35	1.93	YES
L0004844	0	0.65217E-03	440393.6	3765740.6	259.5	4.15	5.35	1.93	YES
L0004845	0	0.65217E-03	440382.2	3765741.6	259.5	4.15	5.35	1.93	YES
L0004846	0	0.65217E-03	440370.7	3765742.6	259.5	4.15	5.35	1.93	YES
L0004847	0	0.65217E-03	440359.3	3765743.5	259.5	4.15	5.35	1.93	YES
L0004848	0	0.65217E-03	440347.8	3765744.5	259.5	4.15	5.35	1.93	YES
L0004849	0	0.65217E-03	440336.3	3765745.4	259.5	4.15	5.35	1.93	YES
L0004850	0	0.65217E-03	440324.9	3765746.4	259.5	4.15	5.35	1.93	YES
L0004851	0	0.65217E-03	440313.4	3765747.4	259.5	4.15	5.35	1.93	YES
L0004852	0	0.65217E-03	440302.0	3765748.3	259.5	4.15	5.35	1.93	YES
L0004853	0	0.65217E-03	440290.5	3765749.3	259.5	4.15	5.35	1.93	YES
L0004854	0	0.65217E-03	440279.0	3765750.2	259.5	4.15	5.35	1.93	YES
L0004855	0	0.65217E-03	440267.6	3765751.2	259.5	4.15	5.35	1.93	YES
L0004856	0	0.65217E-03	440256.1	3765752.2	259.5	4.15	5.35	1.93	YES
L0004857	0	0.65217E-03	440244.7	3765753.1	259.5	4.15	5.35	1.93	YES
L0004858	0	0.65217E-03	440233.2	3765754.1	259.5	4.15	5.35	1.93	YES
L0004859	0	0.65217E-03	440221.7	3765755.0	259.5	4.15	5.35	1.93	YES
L0004860	0	0.65217E-03	440210.3	3765756.0	259.5	4.15	5.35	1.93	YES
L0004861	0	0.65217E-03	440198.8	3765757.0	259.4	4.15	5.35	1.93	YES
L0004862	0	0.65217E-03	440187.4	3765757.9	259.4	4.15	5.35	1.93	YES
L0004863	0	0.65217E-03	440175.9	3765759.1	259.1	4.15	5.35	1.93	YES
L0004864	0	0.65217E-03	440164.5	3765760.3	258.7	4.15	5.35	1.93	YES
L0004865	0	0.65217E-03	440153.0	3765761.5	258.3	4.15	5.35	1.93	YES
L0004866	0	0.65217E-03	440141.6	3765762.7	257.9	4.15	5.35	1.93	YES
L0004867	0	0.65217E-03	440130.2	3765763.9	257.5	4.15	5.35	1.93	YES

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0004868	0	0.65217E-03	440118.7	3765765.1	257.1	4.15	5.35	1.93	YES	
L0004869	0	0.65217E-03	440107.3	3765766.3	256.7	4.15	5.35	1.93	YES	
L0004870	0	0.65217E-03	440095.9	3765767.9	256.6	4.15	5.35	1.93	YES	
L0004871	0	0.65217E-03	440084.5	3765769.7	256.4	4.15	5.35	1.93	YES	
L0004872	0	0.65217E-03	440073.2	3765771.4	256.3	4.15	5.35	1.93	YES	
L0004873	0	0.65217E-03	440061.8	3765773.2	256.2	4.15	5.35	1.93	YES	
L0004874	0	0.65217E-03	440050.5	3765775.0	256.1	4.15	5.35	1.93	YES	
L0004875	0	0.65217E-03	440039.1	3765776.7	256.0	4.15	5.35	1.93	YES	
L0004876	0	0.65217E-03	440027.7	3765778.5	255.8	4.15	5.35	1.93	YES	
L0004877	0	0.65217E-03	440016.4	3765780.3	255.7	4.15	5.35	1.93	YES	
L0004878	0	0.65217E-03	440005.0	3765782.0	255.6	4.15	5.35	1.93	YES	
L0004879	0	0.65217E-03	439993.6	3765783.8	255.5	4.15	5.35	1.93	YES	
L0004880	0	0.65217E-03	439982.3	3765785.6	255.4	4.15	5.35	1.93	YES	
L0004881	0	0.65217E-03	439970.9	3765787.4	255.2	4.15	5.35	1.93	YES	
L0004882	0	0.65217E-03	439959.6	3765789.1	255.1	4.15	5.35	1.93	YES	
L0004883	0	0.65217E-03	439948.2	3765790.9	255.0	4.15	5.35	1.93	YES	
L0004884	0	0.65217E-03	439936.8	3765792.7	254.9	4.15	5.35	1.93	YES	
L0005546	0	0.41429E-03	439398.5	3765709.0	259.8	0.00	3.37	1.93	YES	
L0005547	0	0.41429E-03	439405.7	3765708.4	259.8	0.00	3.37	1.93	YES	
L0005548	0	0.41429E-03	439413.0	3765707.7	259.7	0.00	3.37	1.93	YES	
L0005549	0	0.41429E-03	439420.2	3765707.0	259.7	0.00	3.37	1.93	YES	
L0005550	0	0.41429E-03	439427.4	3765706.3	259.7	0.00	3.37	1.93	YES	
L0005551	0	0.41429E-03	439434.6	3765705.6	259.7	0.00	3.37	1.93	YES	
L0005552	0	0.41429E-03	439441.8	3765705.0	259.7	0.00	3.37	1.93	YES	
L0005553	0	0.41429E-03	439449.0	3765704.3	259.6	0.00	3.37	1.93	YES	
L0005554	0	0.41429E-03	439456.3	3765703.6	259.6	0.00	3.37	1.93	YES	
L0005555	0	0.41429E-03	439463.5	3765702.9	259.6	0.00	3.37	1.93	YES	
L0005556	0	0.41429E-03	439470.7	3765702.3	259.6	0.00	3.37	1.93	YES	
L0005557	0	0.41429E-03	439477.9	3765701.6	259.6	0.00	3.37	1.93	YES	
L0005558	0	0.41429E-03	439485.1	3765700.9	259.5	0.00	3.37	1.93	YES	
L0005559	0	0.41429E-03	439492.3	3765700.2	259.5	0.00	3.37	1.93	YES	
L0005560	0	0.41429E-03	439499.6	3765699.5	259.5	0.00	3.37	1.93	YES	
L0005561	0	0.41429E-03	439506.8	3765698.9	259.5	0.00	3.37	1.93	YES	
L0005562	0	0.41429E-03	439514.0	3765698.2	259.5	0.00	3.37	1.93	YES	
L0005563	0	0.41429E-03	439521.2	3765697.5	259.4	0.00	3.37	1.93	YES	
L0005564	0	0.41429E-03	439528.4	3765696.8	259.4	0.00	3.37	1.93	YES	
L0005565	0	0.41429E-03	439535.7	3765696.1	259.4	0.00	3.37	1.93	YES	

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

L0005566	0	0.41429E-03	439542.9	3765695.5	259.4	0.00	3.37	1.93	YES
L0005567	0	0.41429E-03	439550.1	3765694.8	259.4	0.00	3.37	1.93	YES
L0005568	0	0.41429E-03	439557.3	3765694.1	259.3	0.00	3.37	1.93	YES
L0005569	0	0.41429E-03	439564.5	3765693.4	259.3	0.00	3.37	1.93	YES
L0005570	0	0.41429E-03	439571.8	3765692.7	259.3	0.00	3.37	1.93	YES
L0005571	0	0.41429E-03	439579.0	3765692.1	259.3	0.00	3.37	1.93	YES
L0005572	0	0.41429E-03	439586.2	3765691.4	259.3	0.00	3.37	1.93	YES
L0005573	0	0.41429E-03	439593.4	3765690.7	259.2	0.00	3.37	1.93	YES
L0005574	0	0.41429E-03	439600.6	3765690.0	259.2	0.00	3.37	1.93	YES
L0005575	0	0.41429E-03	439607.8	3765689.3	259.2	0.00	3.37	1.93	YES
L0005576	0	0.41429E-03	439615.1	3765688.7	259.2	0.00	3.37	1.93	YES
L0005577	0	0.41429E-03	439622.3	3765688.0	259.2	0.00	3.37	1.93	YES
L0005578	0	0.41429E-03	439629.5	3765687.3	259.2	0.00	3.37	1.93	YES
L0005579	0	0.41429E-03	439636.7	3765686.6	259.1	0.00	3.37	1.93	YES
L0005580	0	0.41429E-03	439643.9	3765686.0	259.1	0.00	3.37	1.93	YES
L0005581	0	0.41429E-03	439651.1	3765685.3	259.1	0.00	3.37	1.93	YES
L0005582	0	0.41429E-03	439658.4	3765684.6	259.1	0.00	3.37	1.93	YES
L0005583	0	0.41429E-03	439665.6	3765683.9	259.1	0.00	3.37	1.93	YES
L0005584	0	0.41429E-03	439672.8	3765683.2	259.0	0.00	3.37	1.93	YES
L0005585	0	0.41429E-03	439680.0	3765682.6	259.0	0.00	3.37	1.93	YES
L0005586	0	0.41429E-03	439687.2	3765681.9	259.0	0.00	3.37	1.93	YES
L0005587	0	0.41429E-03	439694.5	3765681.2	259.0	0.00	3.37	1.93	YES
L0005588	0	0.41429E-03	439701.7	3765680.5	259.0	0.00	3.37	1.93	YES
L0005589	0	0.41429E-03	439708.9	3765679.8	258.9	0.00	3.37	1.93	YES
L0005590	0	0.41429E-03	439716.1	3765679.2	258.9	0.00	3.37	1.93	YES
L0005591	0	0.41429E-03	439723.3	3765678.5	258.9	0.00	3.37	1.93	YES
L0005592	0	0.41429E-03	439730.5	3765677.8	258.9	0.00	3.37	1.93	YES
L0005593	0	0.41429E-03	439737.8	3765677.1	258.9	0.00	3.37	1.93	YES
L0005594	0	0.41429E-03	439745.0	3765676.4	258.8	0.00	3.37	1.93	YES
L0005595	0	0.41429E-03	439752.2	3765675.5	258.7	0.00	3.37	1.93	YES
L0005596	0	0.41429E-03	439759.3	3765674.1	258.4	0.00	3.37	1.93	YES
L0005597	0	0.41429E-03	439766.4	3765672.7	258.2	0.00	3.37	1.93	YES
L0005598	0	0.41429E-03	439773.5	3765671.4	257.9	0.00	3.37	1.93	YES
L0005599	0	0.41429E-03	439780.6	3765670.0	257.6	0.00	3.37	1.93	YES
L0005600	0	0.41429E-03	439787.8	3765668.7	257.3	0.00	3.37	1.93	YES
L0005601	0	0.41429E-03	439794.9	3765667.3	257.0	0.00	3.37	1.93	YES
L0005602	0	0.41429E-03	439802.0	3765666.0	256.8	0.00	3.37	1.93	YES
L0005603	0	0.41429E-03	439809.1	3765664.6	256.5	0.00	3.37	1.93	YES
L0005604	0	0.41429E-03	439816.3	3765663.3	256.2	0.00	3.37	1.93	YES
L0005605	0	0.41429E-03	439823.4	3765661.9	255.9	0.00	3.37	1.93	YES
L0005606	0	0.41429E-03	439830.5	3765660.6	255.7	0.00	3.37	1.93	YES
L0005607	0	0.41429E-03	439837.6	3765659.2	255.4	0.00	3.37	1.93	YES
L0005608	0	0.41429E-03	439844.8	3765657.8	255.1	0.00	3.37	1.93	YES

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0005609	0	0.41429E-03	439851.9	3765656.5	254.8	0.00	3.37	1.93	YES	
L0005610	0	0.41429E-03	439859.0	3765655.1	254.5	0.00	3.37	1.93	YES	
L0005611	0	0.41429E-03	439866.1	3765653.8	254.3	0.00	3.37	1.93	YES	
L0005612	0	0.41429E-03	439873.2	3765652.4	254.0	0.00	3.37	1.93	YES	
L0005613	0	0.41429E-03	439880.4	3765651.1	253.7	0.00	3.37	1.93	YES	
L0005614	0	0.41429E-03	439887.5	3765649.7	253.4	0.00	3.37	1.93	YES	
L0005615	0	0.41429E-03	439894.6	3765648.4	253.2	0.00	3.37	1.93	YES	
L0005423	0	0.22764E-03	439892.7	3765790.2	255.0	0.00	1.86	1.93	YES	
L0005424	0	0.22764E-03	439888.8	3765789.6	255.1	0.00	1.86	1.93	YES	
L0005425	0	0.22764E-03	439884.8	3765789.1	255.2	0.00	1.86	1.93	YES	
L0005426	0	0.22764E-03	439880.9	3765788.5	255.2	0.00	1.86	1.93	YES	
L0005427	0	0.22764E-03	439876.9	3765788.0	255.3	0.00	1.86	1.93	YES	
L0005428	0	0.22764E-03	439872.9	3765787.4	255.4	0.00	1.86	1.93	YES	
L0005429	0	0.22764E-03	439869.0	3765786.9	255.4	0.00	1.86	1.93	YES	
L0005430	0	0.22764E-03	439865.0	3765786.3	255.5	0.00	1.86	1.93	YES	
L0005431	0	0.22764E-03	439861.1	3765785.8	255.6	0.00	1.86	1.93	YES	
L0005432	0	0.22764E-03	439857.1	3765785.2	255.7	0.00	1.86	1.93	YES	
L0005433	0	0.22764E-03	439853.1	3765784.7	255.7	0.00	1.86	1.93	YES	
L0005434	0	0.22764E-03	439849.2	3765784.1	255.8	0.00	1.86	1.93	YES	
L0005435	0	0.22764E-03	439845.2	3765783.6	255.9	0.00	1.86	1.93	YES	
L0005436	0	0.22764E-03	439841.2	3765783.0	256.0	0.00	1.86	1.93	YES	
L0005437	0	0.22764E-03	439837.3	3765782.5	256.0	0.00	1.86	1.93	YES	
L0005438	0	0.22764E-03	439833.3	3765781.9	256.1	0.00	1.86	1.93	YES	
L0005439	0	0.22764E-03	439829.4	3765781.4	256.2	0.00	1.86	1.93	YES	
L0005440	0	0.22764E-03	439825.4	3765780.8	256.2	0.00	1.86	1.93	YES	
L0005441	0	0.22764E-03	439821.4	3765780.3	256.3	0.00	1.86	1.93	YES	
L0005442	0	0.22764E-03	439817.5	3765779.7	256.4	0.00	1.86	1.93	YES	
L0005443	0	0.22764E-03	439813.5	3765779.2	256.4	0.00	1.86	1.93	YES	
L0005444	0	0.22764E-03	439809.5	3765778.6	256.5	0.00	1.86	1.93	YES	
L0005445	0	0.22764E-03	439805.6	3765778.1	256.6	0.00	1.86	1.93	YES	
L0005446	0	0.22764E-03	439801.6	3765777.5	256.7	0.00	1.86	1.93	YES	
L0005447	0	0.22764E-03	439797.7	3765777.0	256.7	0.00	1.86	1.93	YES	
L0005448	0	0.22764E-03	439793.7	3765776.4	256.8	0.00	1.86	1.93	YES	
L0005449	0	0.22764E-03	439789.7	3765775.9	256.9	0.00	1.86	1.93	YES	
L0005450	0	0.22764E-03	439785.8	3765775.3	257.0	0.00	1.86	1.93	YES	
L0005451	0	0.22764E-03	439781.8	3765774.8	257.0	0.00	1.86	1.93	YES	
L0005452	0	0.22764E-03	439777.8	3765774.2	257.1	0.00	1.86	1.93	YES	

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

L0005453	0	0.22764E-03	439773.9	3765773.7	257.2	0.00	1.86	1.93	YES
L0005454	0	0.22764E-03	439769.9	3765773.1	257.2	0.00	1.86	1.93	YES
L0005455	0	0.22764E-03	439766.0	3765772.6	257.3	0.00	1.86	1.93	YES
L0005456	0	0.22764E-03	439762.0	3765772.0	257.4	0.00	1.86	1.93	YES
L0005457	0	0.22764E-03	439758.0	3765771.5	257.5	0.00	1.86	1.93	YES
L0005458	0	0.22764E-03	439754.1	3765770.9	257.5	0.00	1.86	1.93	YES
L0005459	0	0.22764E-03	439750.1	3765770.4	257.6	0.00	1.86	1.93	YES
L0005460	0	0.22764E-03	439746.2	3765769.8	257.7	0.00	1.86	1.93	YES
L0005461	0	0.22764E-03	439742.2	3765769.3	257.8	0.00	1.86	1.93	YES
L0005462	0	0.22764E-03	439738.2	3765768.7	257.8	0.00	1.86	1.93	YES
L0005463	0	0.22764E-03	439734.3	3765768.2	257.9	0.00	1.86	1.93	YES
L0005464	0	0.22764E-03	439730.3	3765767.6	258.0	0.00	1.86	1.93	YES
L0005465	0	0.22764E-03	439726.3	3765767.1	258.0	0.00	1.86	1.93	YES
L0005466	0	0.22764E-03	439722.4	3765766.5	258.1	0.00	1.86	1.93	YES
L0005467	0	0.22764E-03	439718.4	3765766.0	258.2	0.00	1.86	1.93	YES
L0005468	0	0.22764E-03	439714.5	3765765.4	258.3	0.00	1.86	1.93	YES
L0005469	0	0.22764E-03	439710.5	3765764.9	258.3	0.00	1.86	1.93	YES
L0005470	0	0.22764E-03	439706.5	3765764.3	258.4	0.00	1.86	1.93	YES
L0005471	0	0.22764E-03	439702.6	3765763.8	258.5	0.00	1.86	1.93	YES
L0005472	0	0.22764E-03	439698.6	3765763.2	258.6	0.00	1.86	1.93	YES
L0005473	0	0.22764E-03	439694.6	3765762.7	258.6	0.00	1.86	1.93	YES
L0005474	0	0.22764E-03	439690.7	3765762.1	258.7	0.00	1.86	1.93	YES
L0005475	0	0.22764E-03	439686.7	3765761.6	258.8	0.00	1.86	1.93	YES
L0005476	0	0.22764E-03	439682.8	3765761.0	258.8	0.00	1.86	1.93	YES
L0005477	0	0.22764E-03	439678.8	3765760.5	258.9	0.00	1.86	1.93	YES
L0005478	0	0.22764E-03	439674.8	3765759.9	259.0	0.00	1.86	1.93	YES
L0005479	0	0.22764E-03	439670.9	3765759.4	259.1	0.00	1.86	1.93	YES
L0005480	0	0.22764E-03	439666.9	3765758.8	259.1	0.00	1.86	1.93	YES
L0005481	0	0.22764E-03	439662.9	3765758.3	259.2	0.00	1.86	1.93	YES
L0005482	0	0.22764E-03	439659.0	3765757.8	259.3	0.00	1.86	1.93	YES
L0005483	0	0.22764E-03	439655.0	3765757.2	259.4	0.00	1.86	1.93	YES
L0005484	0	0.22764E-03	439651.1	3765756.7	259.4	0.00	1.86	1.93	YES
L0005485	0	0.22764E-03	439647.1	3765756.1	259.5	0.00	1.86	1.93	YES
L0005486	0	0.22764E-03	439643.1	3765755.6	259.6	0.00	1.86	1.93	YES
L0005487	0	0.22764E-03	439639.2	3765755.0	259.6	0.00	1.86	1.93	YES
L0005488	0	0.22764E-03	439635.2	3765754.5	259.7	0.00	1.86	1.93	YES
L0005489	0	0.22764E-03	439631.3	3765753.9	259.8	0.00	1.86	1.93	YES
L0005490	0	0.22764E-03	439627.3	3765753.4	259.9	0.00	1.86	1.93	YES
L0005491	0	0.22764E-03	439623.3	3765752.8	259.9	0.00	1.86	1.93	YES
L0005492	0	0.22764E-03	439619.4	3765752.3	260.0	0.00	1.86	1.93	YES
L0005493	0	0.22764E-03	439615.4	3765751.7	260.1	0.00	1.86	1.93	YES
L0005494	0	0.22764E-03	439611.4	3765751.2	260.1	0.00	1.86	1.93	YES
L0005495	0	0.22764E-03	439607.5	3765750.6	260.2	0.00	1.86	1.93	YES

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0005496	0	0.22764E-03	439603.5	3765750.1	260.3	0.00	1.86	1.93	YES	
L0005497	0	0.22764E-03	439599.6	3765749.5	260.4	0.00	1.86	1.93	YES	
L0005498	0	0.22764E-03	439595.6	3765749.1	260.4	0.00	1.86	1.93	YES	
L0005499	0	0.22764E-03	439591.6	3765748.8	260.3	0.00	1.86	1.93	YES	
L0005500	0	0.22764E-03	439587.6	3765748.6	260.3	0.00	1.86	1.93	YES	
L0005501	0	0.22764E-03	439583.6	3765748.4	260.2	0.00	1.86	1.93	YES	
L0005502	0	0.22764E-03	439579.6	3765748.1	260.2	0.00	1.86	1.93	YES	
L0005503	0	0.22764E-03	439575.6	3765747.9	260.1	0.00	1.86	1.93	YES	
L0005504	0	0.22764E-03	439571.6	3765747.6	260.1	0.00	1.86	1.93	YES	
L0005505	0	0.22764E-03	439567.6	3765747.4	260.0	0.00	1.86	1.93	YES	
L0005506	0	0.22764E-03	439563.6	3765747.1	260.0	0.00	1.86	1.93	YES	
L0005507	0	0.22764E-03	439559.6	3765746.9	259.9	0.00	1.86	1.93	YES	
L0005508	0	0.22764E-03	439555.7	3765746.7	259.9	0.00	1.86	1.93	YES	
L0005509	0	0.22764E-03	439551.7	3765746.4	259.8	0.00	1.86	1.93	YES	
L0005510	0	0.22764E-03	439547.7	3765746.2	259.8	0.00	1.86	1.93	YES	
L0005511	0	0.22764E-03	439543.7	3765745.9	259.7	0.00	1.86	1.93	YES	
L0005512	0	0.22764E-03	439539.7	3765745.7	259.7	0.00	1.86	1.93	YES	
L0005513	0	0.22764E-03	439535.7	3765745.4	259.6	0.00	1.86	1.93	YES	
L0005514	0	0.22764E-03	439531.7	3765745.2	259.6	0.00	1.86	1.93	YES	
L0005515	0	0.22764E-03	439527.7	3765744.9	259.5	0.00	1.86	1.93	YES	
L0005516	0	0.22764E-03	439523.7	3765744.7	259.5	0.00	1.86	1.93	YES	
L0005517	0	0.22764E-03	439519.7	3765744.5	259.4	0.00	1.86	1.93	YES	
L0005518	0	0.22764E-03	439515.7	3765744.2	259.4	0.00	1.86	1.93	YES	
L0005519	0	0.22764E-03	439511.7	3765744.0	259.3	0.00	1.86	1.93	YES	
L0005520	0	0.22764E-03	439507.7	3765743.7	259.3	0.00	1.86	1.93	YES	
L0005521	0	0.22764E-03	439503.8	3765743.5	259.2	0.00	1.86	1.93	YES	
L0005522	0	0.22764E-03	439499.8	3765743.2	259.2	0.00	1.86	1.93	YES	
L0005523	0	0.22764E-03	439495.8	3765742.9	259.2	0.00	1.86	1.93	YES	
L0005524	0	0.22764E-03	439491.8	3765742.7	259.2	0.00	1.86	1.93	YES	
L0005525	0	0.22764E-03	439487.8	3765742.4	259.1	0.00	1.86	1.93	YES	
L0005526	0	0.22764E-03	439483.8	3765742.1	259.1	0.00	1.86	1.93	YES	
L0005527	0	0.22764E-03	439479.8	3765741.8	259.1	0.00	1.86	1.93	YES	
L0005528	0	0.22764E-03	439475.8	3765741.6	259.1	0.00	1.86	1.93	YES	
L0005529	0	0.22764E-03	439471.8	3765741.3	259.1	0.00	1.86	1.93	YES	
L0005530	0	0.22764E-03	439467.8	3765741.0	259.1	0.00	1.86	1.93	YES	
L0005531	0	0.22764E-03	439463.8	3765740.7	259.0	0.00	1.86	1.93	YES	
L0005532	0	0.22764E-03	439459.9	3765740.5	259.0	0.00	1.86	1.93	YES	
L0005533	0	0.22764E-03	439455.9	3765740.2	259.0	0.00	1.86	1.93	YES	

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

L0005534	0	0.22764E-03	439451.9	3765739.9	259.0	0.00	1.86	1.93	YES
L0005535	0	0.22764E-03	439447.9	3765739.6	259.0	0.00	1.86	1.93	YES
L0005536	0	0.22764E-03	439443.9	3765739.3	259.0	0.00	1.86	1.93	YES
L0005537	0	0.22764E-03	439439.9	3765739.1	258.9	0.00	1.86	1.93	YES
L0005538	0	0.22764E-03	439435.9	3765738.8	258.9	0.00	1.86	1.93	YES
L0005539	0	0.22764E-03	439431.9	3765738.5	258.9	0.00	1.86	1.93	YES
L0005540	0	0.22764E-03	439427.9	3765738.2	258.9	0.00	1.86	1.93	YES
L0005541	0	0.22764E-03	439423.9	3765738.0	258.9	0.00	1.86	1.93	YES
L0005542	0	0.22764E-03	439420.0	3765737.7	258.9	0.00	1.86	1.93	YES
L0005543	0	0.22764E-03	439416.0	3765737.4	258.8	0.00	1.86	1.93	YES
L0005544	0	0.22764E-03	439412.0	3765737.1	258.8	0.00	1.86	1.93	YES
L0005545	0	0.22764E-03	439408.0	3765736.8	258.8	0.00	1.86	1.93	YES
L0005356	0	0.44776E-03	439300.6	3754274.0	177.4	0.00	3.60	1.93	YES
L0005357	0	0.44776E-03	439297.6	3754281.2	177.4	0.00	3.60	1.93	YES
L0005358	0	0.44776E-03	439294.7	3754288.4	177.5	0.00	3.60	1.93	YES
L0005359	0	0.44776E-03	439291.8	3754295.5	177.5	0.00	3.60	1.93	YES
L0005360	0	0.44776E-03	439288.8	3754302.7	177.5	0.00	3.60	1.93	YES
L0005361	0	0.44776E-03	439285.9	3754309.9	177.6	0.00	3.60	1.93	YES
L0005362	0	0.44776E-03	439282.9	3754317.0	177.6	0.00	3.60	1.93	YES
L0005363	0	0.44776E-03	439280.0	3754324.2	177.6	0.00	3.60	1.93	YES
L0005364	0	0.44776E-03	439277.1	3754331.4	177.7	0.00	3.60	1.93	YES
L0005365	0	0.44776E-03	439274.1	3754338.6	177.7	0.00	3.60	1.93	YES
L0005366	0	0.44776E-03	439271.2	3754345.7	177.8	0.00	3.60	1.93	YES
L0005367	0	0.44776E-03	439268.3	3754352.9	177.8	0.00	3.60	1.93	YES
L0005368	0	0.44776E-03	439265.3	3754360.1	177.8	0.00	3.60	1.93	YES
L0005369	0	0.44776E-03	439262.4	3754367.2	177.9	0.00	3.60	1.93	YES
L0005370	0	0.44776E-03	439259.4	3754374.4	177.9	0.00	3.60	1.93	YES
L0005371	0	0.44776E-03	439256.5	3754381.6	177.9	0.00	3.60	1.93	YES
L0005372	0	0.44776E-03	439253.6	3754388.8	178.0	0.00	3.60	1.93	YES
L0005373	0	0.44776E-03	439250.6	3754395.9	178.0	0.00	3.60	1.93	YES
L0005374	0	0.44776E-03	439247.7	3754403.1	178.0	0.00	3.60	1.93	YES
L0005375	0	0.44776E-03	439244.8	3754410.3	178.1	0.00	3.60	1.93	YES
L0005376	0	0.44776E-03	439241.8	3754417.5	178.1	0.00	3.60	1.93	YES
L0005377	0	0.44776E-03	439238.9	3754424.6	178.1	0.00	3.60	1.93	YES
L0005378	0	0.44776E-03	439235.9	3754431.8	178.2	0.00	3.60	1.93	YES
L0005379	0	0.44776E-03	439233.0	3754439.0	178.2	0.00	3.60	1.93	YES
L0005380	0	0.44776E-03	439230.1	3754446.1	178.2	0.00	3.60	1.93	YES
L0005381	0	0.44776E-03	439228.0	3754453.5	178.2	0.00	3.60	1.93	YES
L0005382	0	0.44776E-03	439227.1	3754461.2	178.1	0.00	3.60	1.93	YES
L0005383	0	0.44776E-03	439226.1	3754468.9	178.0	0.00	3.60	1.93	YES
L0005384	0	0.44776E-03	439225.1	3754476.6	178.0	0.00	3.60	1.93	YES
L0005385	0	0.44776E-03	439224.1	3754484.3	177.9	0.00	3.60	1.93	YES

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0005386	0	0.44776E-03	439223.1	3754492.0	177.8	0.00	3.60	1.93	YES	
L0005387	0	0.44776E-03	439222.2	3754499.7	177.7	0.00	3.60	1.93	YES	
L0005388	0	0.44776E-03	439221.2	3754507.4	177.6	0.00	3.60	1.93	YES	
L0005389	0	0.44776E-03	439221.2	3754515.1	177.7	0.00	3.60	1.93	YES	
L0005390	0	0.44776E-03	439221.5	3754522.8	177.7	0.00	3.60	1.93	YES	
L0005391	0	0.44776E-03	439221.8	3754530.6	177.7	0.00	3.60	1.93	YES	
L0005392	0	0.44776E-03	439222.1	3754538.3	177.8	0.00	3.60	1.93	YES	
L0005393	0	0.44776E-03	439222.5	3754546.1	177.8	0.00	3.60	1.93	YES	
L0005394	0	0.44776E-03	439222.8	3754553.8	177.8	0.00	3.60	1.93	YES	
L0005395	0	0.44776E-03	439223.1	3754561.6	177.9	0.00	3.60	1.93	YES	
L0005396	0	0.44776E-03	439223.5	3754569.3	177.9	0.00	3.60	1.93	YES	
L0005397	0	0.44776E-03	439223.8	3754577.0	178.0	0.00	3.60	1.93	YES	
L0005398	0	0.44776E-03	439224.1	3754584.8	178.0	0.00	3.60	1.93	YES	
L0005399	0	0.44776E-03	439225.2	3754592.4	177.9	0.00	3.60	1.93	YES	
L0005400	0	0.44776E-03	439226.5	3754600.1	177.8	0.00	3.60	1.93	YES	
L0005401	0	0.44776E-03	439227.8	3754607.7	177.7	0.00	3.60	1.93	YES	
L0005402	0	0.44776E-03	439229.1	3754615.4	177.6	0.00	3.60	1.93	YES	
L0005403	0	0.44776E-03	439230.4	3754623.0	177.5	0.00	3.60	1.93	YES	
L0005404	0	0.44776E-03	439231.7	3754630.6	177.4	0.00	3.60	1.93	YES	
L0005405	0	0.44776E-03	439233.0	3754638.3	177.3	0.00	3.60	1.93	YES	
L0005406	0	0.44776E-03	439233.8	3754646.0	177.4	0.00	3.60	1.93	YES	
L0005407	0	0.44776E-03	439233.4	3754653.7	177.6	0.00	3.60	1.93	YES	
L0005408	0	0.44776E-03	439233.0	3754661.4	177.9	0.00	3.60	1.93	YES	
L0005409	0	0.44776E-03	439231.3	3754668.9	178.1	0.00	3.60	1.93	YES	
L0005410	0	0.44776E-03	439228.5	3754676.1	178.3	0.00	3.60	1.93	YES	
L0005411	0	0.44776E-03	439225.3	3754683.2	178.5	0.00	3.60	1.93	YES	
L0005412	0	0.44776E-03	439221.1	3754689.7	178.6	0.00	3.60	1.93	YES	
L0005413	0	0.44776E-03	439216.8	3754696.1	178.7	0.00	3.60	1.93	YES	
L0005414	0	0.44776E-03	439212.6	3754702.6	178.8	0.00	3.60	1.93	YES	
L0005415	0	0.44776E-03	439208.4	3754709.1	178.9	0.00	3.60	1.93	YES	
L0005416	0	0.44776E-03	439204.1	3754715.6	178.9	0.00	3.60	1.93	YES	
L0005417	0	0.44776E-03	439199.9	3754722.1	179.0	0.00	3.60	1.93	YES	
L0005418	0	0.44776E-03	439195.6	3754728.6	179.1	0.00	3.60	1.93	YES	
L0005419	0	0.44776E-03	439191.4	3754735.0	179.2	0.00	3.60	1.93	YES	
L0005420	0	0.44776E-03	439187.1	3754741.5	179.3	0.00	3.60	1.93	YES	
L0005421	0	0.44776E-03	439182.9	3754748.0	179.4	0.00	3.60	1.93	YES	
L0005422	0	0.44776E-03	439178.6	3754754.5	179.5	0.00	3.60	1.93	YES	

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

L0005145	0	0.37143E-03	439024.8	3754658.5	174.9	4.15	3.02	1.93	YES
L0005146	0	0.37143E-03	439028.7	3754653.2	174.9	4.15	3.02	1.93	YES
L0005147	0	0.37143E-03	439032.5	3754648.0	174.9	4.15	3.02	1.93	YES
L0005148	0	0.37143E-03	439036.3	3754642.7	174.8	4.15	3.02	1.93	YES
L0005149	0	0.37143E-03	439040.2	3754637.5	174.8	4.15	3.02	1.93	YES
L0005150	0	0.37143E-03	439044.0	3754632.2	174.8	4.15	3.02	1.93	YES
L0005151	0	0.37143E-03	439047.8	3754627.0	174.8	4.15	3.02	1.93	YES
L0005152	0	0.37143E-03	439051.6	3754621.7	174.8	4.15	3.02	1.93	YES
L0005153	0	0.37143E-03	439055.5	3754616.5	174.8	4.15	3.02	1.93	YES
L0005154	0	0.37143E-03	439059.3	3754611.2	174.8	4.15	3.02	1.93	YES
L0005155	0	0.37143E-03	439063.1	3754606.0	174.8	4.15	3.02	1.93	YES
L0005156	0	0.37143E-03	439067.0	3754600.7	174.7	4.15	3.02	1.93	YES
L0005157	0	0.37143E-03	439070.8	3754595.5	174.7	4.15	3.02	1.93	YES
L0005158	0	0.37143E-03	439074.6	3754590.2	174.7	4.15	3.02	1.93	YES
L0005159	0	0.37143E-03	439078.4	3754585.0	174.7	4.15	3.02	1.93	YES
L0005160	0	0.37143E-03	439082.3	3754579.7	174.7	4.15	3.02	1.93	YES
L0005161	0	0.37143E-03	439086.1	3754574.4	174.7	4.15	3.02	1.93	YES
L0005162	0	0.37143E-03	439089.9	3754569.2	174.7	4.15	3.02	1.93	YES
L0005163	0	0.37143E-03	439093.7	3754563.9	174.7	4.15	3.02	1.93	YES
L0005164	0	0.37143E-03	439097.6	3754558.7	174.6	4.15	3.02	1.93	YES
L0005165	0	0.37143E-03	439101.4	3754553.4	174.6	4.15	3.02	1.93	YES
L0005166	0	0.37143E-03	439105.2	3754548.2	174.6	4.15	3.02	1.93	YES
L0005167	0	0.37143E-03	439109.1	3754542.9	174.6	4.15	3.02	1.93	YES
L0005168	0	0.37143E-03	439112.7	3754537.5	174.7	4.15	3.02	1.93	YES
L0005169	0	0.37143E-03	439116.3	3754532.1	174.7	4.15	3.02	1.93	YES
L0005170	0	0.37143E-03	439119.9	3754526.7	174.8	4.15	3.02	1.93	YES
L0005171	0	0.37143E-03	439123.4	3754521.3	174.8	4.15	3.02	1.93	YES
L0005172	0	0.37143E-03	439127.0	3754515.8	174.9	4.15	3.02	1.93	YES
L0005173	0	0.37143E-03	439130.6	3754510.4	175.0	4.15	3.02	1.93	YES
L0005174	0	0.37143E-03	439134.1	3754505.0	175.0	4.15	3.02	1.93	YES
L0005175	0	0.37143E-03	439137.7	3754499.5	175.1	4.15	3.02	1.93	YES
L0005176	0	0.37143E-03	439141.3	3754494.1	175.2	4.15	3.02	1.93	YES
L0005177	0	0.37143E-03	439144.9	3754488.7	175.2	4.15	3.02	1.93	YES
L0005178	0	0.37143E-03	439148.4	3754483.2	175.3	4.15	3.02	1.93	YES
L0005179	0	0.37143E-03	439152.0	3754477.8	175.4	4.15	3.02	1.93	YES
L0005180	0	0.42857E-03	438756.5	3755050.0	175.8	4.15	3.56	1.93	YES
L0005181	0	0.42857E-03	438759.9	3755043.2	176.2	4.15	3.56	1.93	YES
L0005182	0	0.42857E-03	438763.4	3755036.4	176.8	4.15	3.56	1.93	YES
L0005183	0	0.42857E-03	438766.9	3755029.6	177.2	4.15	3.56	1.93	YES
L0005184	0	0.42857E-03	438770.4	3755022.8	177.7	4.15	3.56	1.93	YES
L0005185	0	0.42857E-03	438774.1	3755016.1	177.8	4.15	3.56	1.93	YES
L0005186	0	0.42857E-03	438777.8	3755009.4	177.6	4.15	3.56	1.93	YES
L0005187	0	0.42857E-03	438781.6	3755002.8	177.4	4.15	3.56	1.93	YES

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0005188	0	0.42857E-03	438785.4	3754996.1	177.2	4.15	3.56	1.93	YES	
L0005189	0	0.42857E-03	438789.2	3754989.5	177.0	4.15	3.56	1.93	YES	
L0005190	0	0.42857E-03	438793.0	3754982.8	176.8	4.15	3.56	1.93	YES	
L0005191	0	0.42857E-03	438796.8	3754976.2	176.6	4.15	3.56	1.93	YES	
L0005192	0	0.42857E-03	438800.6	3754969.6	176.4	4.15	3.56	1.93	YES	
L0005193	0	0.42857E-03	438804.4	3754962.9	176.2	4.15	3.56	1.93	YES	
L0005194	0	0.42857E-03	438808.2	3754956.3	175.9	4.15	3.56	1.93	YES	
L0005195	0	0.42857E-03	438812.0	3754949.6	175.7	4.15	3.56	1.93	YES	
L0005196	0	0.42857E-03	438815.8	3754943.0	175.5	4.15	3.56	1.93	YES	
L0005197	0	0.42857E-03	438819.6	3754936.3	175.3	4.15	3.56	1.93	YES	
L0005198	0	0.42857E-03	438823.4	3754929.7	175.1	4.15	3.56	1.93	YES	
L0005199	0	0.42857E-03	438827.2	3754923.1	174.9	4.15	3.56	1.93	YES	
L0005200	0	0.42857E-03	438829.5	3754915.8	174.7	4.15	3.56	1.93	YES	
L0005201	0	0.42857E-03	438831.8	3754908.5	174.4	4.15	3.56	1.93	YES	
L0005202	0	0.42857E-03	438834.0	3754901.2	174.2	4.15	3.56	1.93	YES	
L0005203	0	0.42857E-03	438836.2	3754893.8	173.9	4.15	3.56	1.93	YES	
L0005204	0	0.42857E-03	438838.4	3754886.5	173.6	4.15	3.56	1.93	YES	
L0005205	0	0.42857E-03	438840.7	3754879.2	173.4	4.15	3.56	1.93	YES	
L0005206	0	0.42857E-03	438842.1	3754871.7	172.9	4.15	3.56	1.93	YES	
L0005207	0	0.42857E-03	438843.5	3754864.2	172.4	4.15	3.56	1.93	YES	
L0005208	0	0.42857E-03	438844.9	3754856.7	171.9	4.15	3.56	1.93	YES	
L0005209	0	0.42857E-03	438846.3	3754849.1	171.5	4.15	3.56	1.93	YES	
L0005210	0	0.42857E-03	438847.2	3754841.5	171.0	4.15	3.56	1.93	YES	
L0005211	0	0.42857E-03	438848.0	3754833.9	170.6	4.15	3.56	1.93	YES	
L0005212	0	0.42857E-03	438848.0	3754826.3	170.6	4.15	3.56	1.93	YES	
L0005213	0	0.42857E-03	438848.0	3754818.6	170.5	4.15	3.56	1.93	YES	
L0005214	0	0.42857E-03	438848.0	3754811.0	170.5	4.15	3.56	1.93	YES	
L0005215	0	0.42857E-03	438848.0	3754803.3	170.4	4.15	3.56	1.93	YES	
L0005216	0	0.42857E-03	438847.2	3754795.7	170.8	4.15	3.56	1.93	YES	
L0005217	0	0.42857E-03	438846.5	3754788.1	171.2	4.15	3.56	1.93	YES	
L0005218	0	0.42857E-03	438845.7	3754780.5	171.7	4.15	3.56	1.93	YES	
L0005219	0	0.42857E-03	438844.8	3754772.9	172.1	4.15	3.56	1.93	YES	
L0005220	0	0.42857E-03	438843.4	3754765.4	172.5	4.15	3.56	1.93	YES	
L0005221	0	0.42857E-03	438842.0	3754757.9	172.9	4.15	3.56	1.93	YES	
L0005222	0	0.42857E-03	438840.4	3754750.4	173.3	4.15	3.56	1.93	YES	
L0005223	0	0.42857E-03	438838.3	3754743.0	173.7	4.15	3.56	1.93	YES	
L0005224	0	0.42857E-03	438836.2	3754735.7	174.1	4.15	3.56	1.93	YES	
L0005225	0	0.42857E-03	438834.1	3754728.3	174.5	4.15	3.56	1.93	YES	

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

L0005226	0	0.42857E-03	438832.1	3754721.0	174.9	4.15	3.56	1.93	YES
L0005227	0	0.42857E-03	438830.0	3754713.6	175.2	4.15	3.56	1.93	YES
L0005228	0	0.42857E-03	438827.9	3754706.2	175.6	4.15	3.56	1.93	YES
L0005229	0	0.42857E-03	438825.8	3754698.9	176.0	4.15	3.56	1.93	YES
L0005230	0	0.42857E-03	438823.7	3754691.5	176.4	4.15	3.56	1.93	YES
L0005231	0	0.42857E-03	438821.6	3754684.2	176.8	4.15	3.56	1.93	YES
L0005232	0	0.42857E-03	438820.1	3754676.7	176.9	4.15	3.56	1.93	YES
L0005233	0	0.42857E-03	438819.0	3754669.1	177.0	4.15	3.56	1.93	YES
L0005234	0	0.42857E-03	438818.3	3754661.5	177.1	4.15	3.56	1.93	YES
L0005235	0	0.42857E-03	438818.1	3754653.9	177.1	4.15	3.56	1.93	YES
L0005236	0	0.42857E-03	438818.7	3754646.3	177.0	4.15	3.56	1.93	YES
L0005237	0	0.42857E-03	438819.4	3754638.6	176.9	4.15	3.56	1.93	YES
L0005238	0	0.42857E-03	438820.0	3754631.0	176.8	4.15	3.56	1.93	YES
L0005239	0	0.42857E-03	438821.3	3754623.5	176.8	4.15	3.56	1.93	YES
L0005240	0	0.42857E-03	438822.9	3754616.0	177.0	4.15	3.56	1.93	YES
L0005241	0	0.42857E-03	438824.6	3754608.5	177.1	4.15	3.56	1.93	YES
L0005242	0	0.42857E-03	438826.3	3754601.1	177.3	4.15	3.56	1.93	YES
L0005243	0	0.48485E-03	439157.6	3754737.4	179.9	4.15	3.95	1.93	YES
L0005244	0	0.48485E-03	439163.4	3754731.2	179.6	4.15	3.95	1.93	YES
L0005245	0	0.48485E-03	439169.2	3754725.0	179.2	4.15	3.95	1.93	YES
L0005246	0	0.48485E-03	439175.0	3754718.8	178.8	4.15	3.95	1.93	YES
L0005247	0	0.48485E-03	439180.9	3754712.6	178.5	4.15	3.95	1.93	YES
L0005248	0	0.48485E-03	439186.7	3754706.4	178.1	4.15	3.95	1.93	YES
L0005249	0	0.48485E-03	439192.4	3754700.2	177.8	4.15	3.95	1.93	YES
L0005250	0	0.48485E-03	439197.2	3754693.1	177.8	4.15	3.95	1.93	YES
L0005251	0	0.48485E-03	439202.0	3754686.1	177.9	4.15	3.95	1.93	YES
L0005252	0	0.48485E-03	439206.8	3754679.1	177.9	4.15	3.95	1.93	YES
L0005253	0	0.48485E-03	439209.5	3754671.0	177.4	4.15	3.95	1.93	YES
L0005254	0	0.48485E-03	439211.2	3754662.9	177.1	4.15	3.95	1.93	YES
L0005255	0	0.48485E-03	439210.7	3754654.4	177.0	4.15	3.95	1.93	YES
L0005256	0	0.48485E-03	439208.4	3754646.2	176.5	4.15	3.95	1.93	YES
L0005257	0	0.48485E-03	439206.0	3754638.0	176.0	4.15	3.95	1.93	YES
L0005258	0	0.48485E-03	439201.0	3754631.2	175.7	4.15	3.95	1.93	YES
L0005259	0	0.48485E-03	439195.7	3754624.6	175.3	4.15	3.95	1.93	YES
L0005260	0	0.48485E-03	439189.0	3754619.6	175.2	4.15	3.95	1.93	YES
L0005261	0	0.48485E-03	439181.5	3754615.7	175.4	4.15	3.95	1.93	YES
L0005262	0	0.48485E-03	439173.5	3754613.2	175.4	4.15	3.95	1.93	YES
L0005263	0	0.48485E-03	439165.1	3754611.8	175.3	4.15	3.95	1.93	YES
L0005264	0	0.48485E-03	439156.7	3754611.7	175.2	4.15	3.95	1.93	YES
L0005265	0	0.48485E-03	439148.3	3754612.9	175.1	4.15	3.95	1.93	YES
L0005266	0	0.48485E-03	439140.2	3754615.5	174.9	4.15	3.95	1.93	YES
L0005267	0	0.48485E-03	439132.6	3754619.0	174.6	4.15	3.95	1.93	YES

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0005268	0	0.48485E-03	439126.8	3754625.2	174.4	4.15	3.95	1.93	YES	
L0005269	0	0.48485E-03	439121.0	3754631.4	174.3	4.15	3.95	1.93	YES	
L0005270	0	0.48485E-03	439115.4	3754637.8	174.4	4.15	3.95	1.93	YES	
L0005271	0	0.48485E-03	439109.7	3754644.1	174.5	4.15	3.95	1.93	YES	
L0005272	0	0.48485E-03	439104.0	3754650.4	174.6	4.15	3.95	1.93	YES	
L0005273	0	0.48485E-03	439098.6	3754657.0	174.6	4.15	3.95	1.93	YES	
L0005274	0	0.48485E-03	439093.3	3754663.6	174.5	4.15	3.95	1.93	YES	
L0005275	0	0.48485E-03	439088.0	3754670.3	174.5	4.15	3.95	1.93	YES	
L0005276	0	0.48485E-03	439082.7	3754676.9	174.5	4.15	3.95	1.93	YES	
L0005277	0	0.48485E-03	439077.4	3754683.5	174.4	4.15	3.95	1.93	YES	
L0005278	0	0.48485E-03	439072.1	3754690.2	174.4	4.15	3.95	1.93	YES	
L0005279	0	0.48485E-03	439066.7	3754696.8	174.3	4.15	3.95	1.93	YES	
L0005280	0	0.48485E-03	439061.4	3754703.4	174.3	4.15	3.95	1.93	YES	
L0005281	0	0.48485E-03	439056.1	3754710.1	174.3	4.15	3.95	1.93	YES	
L0005282	0	0.48485E-03	439050.8	3754716.7	174.2	4.15	3.95	1.93	YES	
L0005283	0	0.48485E-03	439045.5	3754723.3	174.2	4.15	3.95	1.93	YES	
L0005284	0	0.48485E-03	439040.1	3754730.0	174.2	4.15	3.95	1.93	YES	
L0005285	0	0.48485E-03	439034.8	3754736.6	174.1	4.15	3.95	1.93	YES	
L0005286	0	0.48485E-03	439029.5	3754743.2	174.1	4.15	3.95	1.93	YES	
L0005287	0	0.48485E-03	439024.2	3754749.8	174.1	4.15	3.95	1.93	YES	
L0005288	0	0.48485E-03	439018.9	3754756.5	174.0	4.15	3.95	1.93	YES	
L0005289	0	0.48485E-03	439013.6	3754763.1	174.0	4.15	3.95	1.93	YES	
L0005290	0	0.48485E-03	439008.2	3754769.7	173.9	4.15	3.95	1.93	YES	
L0005291	0	0.48485E-03	439002.9	3754776.4	173.9	4.15	3.95	1.93	YES	
L0005292	0	0.48485E-03	438997.6	3754783.0	173.9	4.15	3.95	1.93	YES	
L0005293	0	0.48485E-03	438992.3	3754789.6	173.8	4.15	3.95	1.93	YES	
L0005294	0	0.48485E-03	438987.0	3754796.3	173.8	4.15	3.95	1.93	YES	
L0005295	0	0.48485E-03	438981.7	3754802.9	173.8	4.15	3.95	1.93	YES	
L0005296	0	0.48485E-03	438976.2	3754809.4	173.8	4.15	3.95	1.93	YES	
L0005297	0	0.48485E-03	438970.6	3754815.8	173.8	4.15	3.95	1.93	YES	
L0005298	0	0.48485E-03	438965.1	3754822.3	173.9	4.15	3.95	1.93	YES	
L0005299	0	0.48485E-03	438959.5	3754828.7	173.9	4.15	3.95	1.93	YES	
L0005300	0	0.48485E-03	438953.9	3754835.1	174.0	4.15	3.95	1.93	YES	
L0005301	0	0.48485E-03	438948.3	3754841.5	174.0	4.15	3.95	1.93	YES	
L0005302	0	0.48485E-03	438942.8	3754847.9	174.1	4.15	3.95	1.93	YES	
L0005303	0	0.48485E-03	438937.2	3754854.3	174.1	4.15	3.95	1.93	YES	
L0005304	0	0.48485E-03	438931.7	3754860.8	174.2	4.15	3.95	1.93	YES	
L0005305	0	0.48485E-03	438926.2	3754867.3	174.2	4.15	3.95	1.93	YES	

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

L0005306	0	0.48485E-03	438920.7	3754873.8	174.3	4.15	3.95	1.93	YES
L0005307	0	0.48485E-03	438915.2	3754880.2	174.3	4.15	3.95	1.93	YES
L0005308	0	0.48485E-03	438909.7	3754886.7	174.4	4.15	3.95	1.93	YES
L0005309	0	0.48936E-03	439069.4	3754683.7	175.2	4.15	3.95	1.93	YES
L0005310	0	0.48936E-03	439061.5	3754680.4	175.4	4.15	3.95	1.93	YES
L0005311	0	0.48936E-03	439053.7	3754677.2	175.7	4.15	3.95	1.93	YES
L0005312	0	0.48936E-03	439045.8	3754673.9	176.0	4.15	3.95	1.93	YES
L0005313	0	0.48936E-03	439038.0	3754670.7	176.2	4.15	3.95	1.93	YES
L0005314	0	0.48936E-03	439030.1	3754667.4	176.5	4.15	3.95	1.93	YES
L0005315	0	0.48936E-03	439022.3	3754664.1	176.8	4.15	3.95	1.93	YES
L0005316	0	0.48936E-03	439014.4	3754660.9	177.1	4.15	3.95	1.93	YES
L0005317	0	0.48936E-03	439006.6	3754657.6	177.3	4.15	3.95	1.93	YES
L0005318	0	0.48936E-03	438998.7	3754654.4	177.6	4.15	3.95	1.93	YES
L0005319	0	0.48936E-03	438990.7	3754651.7	177.9	4.15	3.95	1.93	YES
L0005320	0	0.48936E-03	438982.6	3754649.0	178.2	4.15	3.95	1.93	YES
L0005321	0	0.48936E-03	438974.5	3754646.4	178.5	4.15	3.95	1.93	YES
L0005322	0	0.48936E-03	438966.4	3754643.8	178.8	4.15	3.95	1.93	YES
L0005323	0	0.48936E-03	438958.3	3754641.2	179.1	4.15	3.95	1.93	YES
L0005324	0	0.48936E-03	438950.3	3754638.5	179.5	4.15	3.95	1.93	YES
L0005325	0	0.48936E-03	438941.9	3754638.7	179.4	4.15	3.95	1.93	YES
L0005326	0	0.48936E-03	438933.4	3754639.5	179.3	4.15	3.95	1.93	YES
L0005327	0	0.48936E-03	438925.1	3754640.8	179.2	4.15	3.95	1.93	YES
L0005328	0	0.48936E-03	438917.1	3754643.8	179.0	4.15	3.95	1.93	YES
L0005329	0	0.48936E-03	438910.2	3754648.6	178.5	4.15	3.95	1.93	YES
L0005330	0	0.48936E-03	438903.8	3754654.1	177.9	4.15	3.95	1.93	YES
L0005331	0	0.48936E-03	438899.1	3754661.1	177.6	4.15	3.95	1.93	YES
L0005332	0	0.48936E-03	438895.1	3754668.6	177.6	4.15	3.95	1.93	YES
L0005333	0	0.48936E-03	438892.3	3754676.5	177.3	4.15	3.95	1.93	YES
L0005334	0	0.48936E-03	438890.6	3754684.9	176.9	4.15	3.95	1.93	YES
L0005335	0	0.48936E-03	438890.8	3754693.3	176.9	4.15	3.95	1.93	YES
L0005336	0	0.48936E-03	438891.9	3754701.7	177.1	4.15	3.95	1.93	YES
L0005337	0	0.48936E-03	438895.4	3754709.3	176.5	4.15	3.95	1.93	YES
L0005338	0	0.48936E-03	438899.6	3754716.7	175.8	4.15	3.95	1.93	YES
L0005339	0	0.48936E-03	438906.2	3754721.9	175.8	4.15	3.95	1.93	YES
L0005340	0	0.48936E-03	438913.3	3754726.6	175.9	4.15	3.95	1.93	YES
L0005341	0	0.48936E-03	438921.1	3754729.8	175.3	4.15	3.95	1.93	YES
L0005342	0	0.48936E-03	438929.2	3754732.3	174.8	4.15	3.95	1.93	YES
L0005343	0	0.48936E-03	438937.7	3754732.7	174.6	4.15	3.95	1.93	YES
L0005344	0	0.48936E-03	438946.1	3754732.4	174.5	4.15	3.95	1.93	YES
L0005345	0	0.48936E-03	438954.5	3754731.0	174.5	4.15	3.95	1.93	YES
L0005346	0	0.48936E-03	438962.4	3754728.2	174.4	4.15	3.95	1.93	YES
L0005347	0	0.48936E-03	438970.0	3754724.3	174.4	4.15	3.95	1.93	YES

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0005348	0	0.48936E-03	438976.8	3754719.4	174.3	4.15	3.95	1.93	YES	
L0005349	0	0.48936E-03	438983.2	3754713.8	174.1	4.15	3.95	1.93	YES	
L0005350	0	0.48936E-03	438988.9	3754707.5	174.0	4.15	3.95	1.93	YES	
L0005351	0	0.48936E-03	438993.9	3754700.6	174.1	4.15	3.95	1.93	YES	
L0005352	0	0.48936E-03	438998.9	3754693.8	174.1	4.15	3.95	1.93	YES	
L0005353	0	0.48936E-03	439003.8	3754686.9	174.1	4.15	3.95	1.93	YES	
L0005354	0	0.48936E-03	439008.8	3754680.0	174.2	4.15	3.95	1.93	YES	
L0005355	0	0.48936E-03	439013.8	3754673.1	174.2	4.15	3.95	1.93	YES	

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
PAREA1	0	0.95513E-05	440040.1	3761254.5	202.0	4.15	170	1.93	YES	

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs								
ONSITE	PAREA1	,							
HAULROUT	L0004068	, L0004069	, L0004070	, L0004071	, L0004072	, L0004073	, L0004074	, L0004075	,
	L0004076	, L0004077	, L0004078	, L0004079	, L0004080	, L0004081	, L0004082	, L0004083	,
	L0004084	, L0004085	, L0004086	, L0004087	, L0004088	, L0004089	, L0004090	, L0004091	,
	L0004092	, L0004093	, L0004094	, L0004095	, L0004096	, L0004097	, L0004098	, L0004099	,
	L0004100	, L0004101	, L0004102	, L0004103	, L0004104	, L0004105	, L0004106	, L0004107	,
	L0004108	, L0004109	, L0004110	, L0004111	, L0004112	, L0004113	, L0004114	, L0004115	,
	L0004116	, L0004117	, L0004118	, L0004119	, L0004120	, L0004121	, L0004122	, L0004123	,
	L0004124	, L0004125	, L0004126	, L0004127	, L0004128	, L0004129	, L0004130	, L0004131	,
	L0004132	, L0004133	, L0004134	, L0004135	, L0004136	, L0004137	, L0004138	, L0004139	,
	L0004140	, L0004141	, L0004142	, L0004143	, L0004144	, L0004145	, L0004146	, L0004147	,
	L0004148	, L0004149	, L0004150	, L0004151	, L0004152	, L0004153	, L0004154	, L0004155	,
	L0004156	, L0004157	, L0004158	, L0004159	, L0004160	, L0004161	, L0004162	, L0004163	,
	L0004164	, L0004165	, L0004166	, L0004167	, L0004168	, L0004169	, L0004170	, L0004171	,
	L0004172	, L0004173	, L0004174	, L0004175	, L0004176	, L0004177	, L0004178	, L0004179	,
	L0004180	, L0004181	, L0004182	, L0004183	, L0004184	, L0004185	, L0004186	, L0004187	,
	L0004188	, L0004189	, L0004190	, L0004191	, L0004192	, L0004193	, L0004194	, L0004195	,
	L0004196	, L0004197	, L0004198	, L0004199	, L0004200	, L0004201	, L0004202	, L0004203	,
	L0004204	, L0004205	, L0004206	, L0004207	, L0004208	, L0004209	, L0004210	, L0004211	,
	L0004220	, L0004221	, L0004222	, L0004223	, L0004224	, L0004225	, L0004226	, L0004227	,
	L0004228	, L0004229	, L0004230	, L0004231	, L0004232	, L0004233	, L0004234	, L0004235	,
	L0004236	, L0004237	, L0004238	, L0004239	, L0004240	, L0004241	, L0004242	, L0004243	,
	L0004244	, L0004245	, L0004246	, L0004247	, L0004248	, L0004249	, L0004250	, L0004251	,
	L0004252	, L0004253	, L0004254	, L0004255	, L0004256	, L0004257	, L0004258	, L0004259	,
	L0004260	, L0004261	, L0004262	, L0004263	, L0004264	, L0004265	, L0004266	, L0004267	,
	L0004268	, L0004269	, L0004270	, L0004271	, L0004272	, L0004273	, L0004274	, L0004275	,
	L0004276	, L0004277	, L0004278	, L0004279	, L0004280	, L0004281	, L0004282	, L0004283	,
	L0004284	, L0004285	, L0004286	, L0004287	, L0004288	, L0004289	, L0004290	, L0004291	,
	L0004292	, L0004293	, L0004294	, L0004295	, L0004296	, L0004297	, L0004298	, L0004299	,
	L0004300	, L0004301	, L0004302	, L0004303	, L0004304	, L0004305	, L0004306	, L0004307	,
	L0004308	, L0004309	, L0004310	, L0004311	, L0004312	, L0004313	, L0004314	, L0004315	,
	L0004316	, L0004317	, L0004318	, L0004319	, L0004320	, L0004321	, L0004322	, L0004323	,
	L0004324	, L0004325	, L0004326	, L0004327	, L0004328	, L0004329	, L0004330	, L0004331	,
	L0004332	, L0004333	, L0004334	, L0004335	, L0004336	, L0004337	, L0004338	, L0004339	,
	L0004340	, L0004341	, L0004342	, L0004343	, L0004344	, L0004345	, L0004346	, L0004347	,
	L0004348	, L0004349	, L0004350	, L0004351	, L0004352	, L0004353	, L0004354	, L0004355	,
	L0004356	, L0004357	, L0004358	, L0004359	, L0004360	, L0004361	, L0004362	, L0004363	,
	L0004364	, L0004365	, L0004366	, L0004367	, L0004368	, L0004369	, L0004370	, L0004371	,
	L0004372	, L0004373	, L0004374	, L0004375	, L0004376	, L0004377	, L0004378	, L0004379	,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs							
	L0004380 ,	L0004381 ,	L0004382 ,	L0004383 ,	L0004384 ,	L0004385 ,	L0004386 ,	L0004387 ,
	L0004388 ,	L0004389 ,	L0004390 ,	L0004391 ,	L0004392 ,	L0004393 ,	L0004394 ,	L0004395 ,
	L0004396 ,	L0004397 ,	L0004398 ,	L0004399 ,	L0004400 ,	L0004401 ,	L0004402 ,	L0004403 ,
	L0004404 ,	L0004405 ,	L0004406 ,	L0004407 ,	L0004408 ,	L0004409 ,	L0004410 ,	L0004411 ,
	L0004412 ,	L0004413 ,	L0004414 ,	L0004415 ,	L0004416 ,	L0004417 ,	L0004418 ,	L0004419 ,
	L0004420 ,	L0004421 ,	L0004422 ,	L0004423 ,	L0004424 ,	L0004425 ,	L0004426 ,	L0004427 ,
	L0004428 ,	L0004429 ,	L0004430 ,	L0004431 ,	L0004432 ,	L0004433 ,	L0004434 ,	L0004435 ,
	L0004436 ,	L0004437 ,	L0004438 ,	L0004439 ,	L0004440 ,	L0004441 ,	L0004442 ,	L0004443 ,
	L0004444 ,	L0004445 ,	L0004446 ,	L0004447 ,	L0004448 ,	L0004449 ,	L0004450 ,	L0004451 ,
	L0004452 ,	L0004453 ,	L0004454 ,	L0004455 ,	L0004456 ,	L0004457 ,	L0004458 ,	L0004459 ,
	L0004460 ,	L0004461 ,	L0004462 ,	L0004463 ,	L0004464 ,	L0004465 ,	L0004466 ,	L0004467 ,
	L0004468 ,	L0004469 ,	L0004470 ,	L0004471 ,	L0004472 ,	L0004473 ,	L0004474 ,	L0004475 ,
	L0004476 ,	L0004477 ,	L0004478 ,	L0004479 ,	L0004480 ,	L0004481 ,	L0004482 ,	L0004483 ,
	L0004484 ,	L0004485 ,	L0004486 ,	L0004487 ,	L0004488 ,	L0004489 ,	L0004490 ,	L0004491 ,
	L0004492 ,	L0004493 ,	L0004494 ,	L0004495 ,	L0004496 ,	L0004497 ,	L0004498 ,	L0004499 ,
	L0004500 ,	L0004501 ,	L0004502 ,	L0004503 ,	L0004504 ,	L0004505 ,	L0004506 ,	L0004507 ,
	L0004508 ,	L0004509 ,	L0004510 ,	L0004511 ,	L0004512 ,	L0004513 ,	L0004514 ,	L0004515 ,
	L0004516 ,	L0004517 ,	L0004518 ,	L0004519 ,	L0004520 ,	L0004521 ,	L0004522 ,	L0004523 ,
	L0004524 ,	L0004525 ,	L0004526 ,	L0004527 ,	L0004528 ,	L0004529 ,	L0004530 ,	L0004531 ,
	L0004532 ,	L0004533 ,	L0004534 ,	L0004535 ,	L0004536 ,	L0004537 ,	L0004538 ,	L0004539 ,
	L0004540 ,	L0004541 ,	L0004542 ,	L0004543 ,	L0004544 ,	L0004545 ,	L0004546 ,	L0004547 ,
	L0004548 ,	L0004549 ,	L0004550 ,	L0004551 ,	L0004552 ,	L0004553 ,	L0004554 ,	L0004555 ,
	L0004556 ,	L0004557 ,	L0004558 ,	L0004559 ,	L0004560 ,	L0004561 ,	L0004562 ,	L0004563 ,
	L0004564 ,	L0004565 ,	L0004566 ,	L0004567 ,	L0004568 ,	L0004569 ,	L0004570 ,	L0004571 ,
	L0004572 ,	L0004573 ,	L0004574 ,	L0004575 ,	L0004576 ,	L0004577 ,	L0004578 ,	L0004579 ,
	L0004580 ,	L0004581 ,	L0004582 ,	L0004583 ,	L0004584 ,	L0004585 ,	L0004586 ,	L0004587 ,
	L0004588 ,	L0004589 ,	L0004590 ,	L0004591 ,	L0004592 ,	L0004593 ,	L0004594 ,	L0004595 ,
	L0004596 ,	L0004597 ,	L0004598 ,	L0004599 ,	L0004600 ,	L0004601 ,	L0004602 ,	L0004603 ,
	L0004604 ,	L0004605 ,	L0004606 ,	L0004607 ,	L0004608 ,	L0004609 ,	L0004610 ,	L0004611 ,
	L0004612 ,	L0004613 ,	L0004614 ,	L0004615 ,	L0004616 ,	L0004617 ,	L0004618 ,	L0004619 ,
	L0004620 ,	L0004621 ,	L0004622 ,	L0004623 ,	L0004624 ,	L0004625 ,	L0004626 ,	L0004627 ,
	L0004628 ,	L0004629 ,	L0004630 ,	L0004631 ,	L0004632 ,	L0004633 ,	L0004634 ,	L0004635 ,
	L0004636 ,	L0004637 ,	L0004638 ,	L0004639 ,	L0004640 ,	L0004641 ,	L0004642 ,	L0004643 ,
	L0004644 ,	L0004645 ,	L0004646 ,	L0004647 ,	L0004648 ,	L0004649 ,	L0004650 ,	L0004651 ,
	L0004652 ,	L0004653 ,	L0004654 ,	L0004655 ,	L0004656 ,	L0004657 ,	L0004658 ,	L0004659 ,
	L0004660 ,	L0004661 ,	L0004662 ,	L0004663 ,	L0004664 ,	L0004665 ,	L0004666 ,	L0004667 ,
	L0004668 ,	L0004669 ,	L0004670 ,	L0004671 ,	L0004672 ,	L0004673 ,	L0004674 ,	L0004675 ,
	L0004676 ,	L0004677 ,	L0004678 ,	L0004679 ,	L0004680 ,	L0004681 ,	L0004682 ,	L0004683 ,
	L0004684 ,	L0004685 ,	L0004686 ,	L0004687 ,	L0004688 ,	L0004689 ,	L0004690 ,	L0004691 ,
	L0004692 ,	L0004693 ,	L0004694 ,	L0004695 ,	L0004696 ,	L0004697 ,	L0004698 ,	L0004699 ,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs							
	L0004700 ,	L0004701 ,	L0004702 ,	L0004703 ,	L0004704 ,	L0004705 ,	L0004706 ,	L0004707 ,
	L0004708 ,	L0004709 ,	L0004710 ,	L0004711 ,	L0004712 ,	L0004713 ,	L0004714 ,	L0004715 ,
	L0004716 ,	L0004717 ,	L0004718 ,	L0004719 ,	L0004720 ,	L0004721 ,	L0004722 ,	L0004723 ,
	L0004724 ,	L0004725 ,	L0004726 ,	L0004727 ,	L0004728 ,	L0004729 ,	L0004730 ,	L0004731 ,
	L0004732 ,	L0004733 ,	L0004734 ,	L0004735 ,	L0004736 ,	L0004737 ,	L0004738 ,	L0004739 ,
	L0004740 ,	L0004741 ,	L0004742 ,	L0004743 ,	L0004744 ,	L0004745 ,	L0004746 ,	L0004747 ,
	L0004748 ,	L0004749 ,	L0004750 ,	L0004751 ,	L0004752 ,	L0004753 ,	L0004754 ,	L0004755 ,
	L0004756 ,	L0004757 ,	L0004758 ,	L0004759 ,	L0004760 ,	L0004761 ,	L0004762 ,	L0004763 ,
	L0004764 ,	L0004765 ,	L0004766 ,	L0004767 ,	L0004768 ,	L0004769 ,	L0004770 ,	L0004771 ,
	L0004772 ,	L0004773 ,	L0004774 ,	L0004775 ,	L0004776 ,	L0004777 ,	L0004778 ,	L0004779 ,
	L0004780 ,	L0004781 ,	L0004782 ,	L0004783 ,	L0004784 ,	L0004785 ,	L0004786 ,	L0004787 ,
	L0004788 ,	L0004789 ,	L0004790 ,	L0004791 ,	L0004792 ,	L0004793 ,	L0004794 ,	L0004795 ,
	L0004796 ,	L0004797 ,	L0004798 ,	L0004799 ,	L0004800 ,	L0004801 ,	L0004802 ,	L0004803 ,
	L0004804 ,	L0004805 ,	L0004806 ,	L0004807 ,	L0004808 ,	L0004809 ,	L0004810 ,	L0004811 ,
	L0004812 ,	L0004813 ,	L0004814 ,	L0004815 ,	L0004816 ,	L0004817 ,	L0004818 ,	L0004819 ,
	L0004820 ,	L0004821 ,	L0004822 ,	L0004823 ,	L0004824 ,	L0004825 ,	L0004826 ,	L0004827 ,
	L0004828 ,	L0004829 ,	L0004830 ,	L0004831 ,	L0004832 ,	L0004833 ,	L0004834 ,	L0004835 ,
	L0004836 ,	L0004837 ,	L0004838 ,	L0004839 ,	L0004840 ,	L0004841 ,	L0004842 ,	L0004843 ,
	L0004844 ,	L0004845 ,	L0004846 ,	L0004847 ,	L0004848 ,	L0004849 ,	L0004850 ,	L0004851 ,
	L0004852 ,	L0004853 ,	L0004854 ,	L0004855 ,	L0004856 ,	L0004857 ,	L0004858 ,	L0004859 ,
	L0004860 ,	L0004861 ,	L0004862 ,	L0004863 ,	L0004864 ,	L0004865 ,	L0004866 ,	L0004867 ,
	L0004868 ,	L0004869 ,	L0004870 ,	L0004871 ,	L0004872 ,	L0004873 ,	L0004874 ,	L0004875 ,
	L0004876 ,	L0004877 ,	L0004878 ,	L0004879 ,	L0004880 ,	L0004881 ,	L0004882 ,	L0004883 ,
	L0004884 ,	L0005546 ,	L0005547 ,	L0005548 ,	L0005549 ,	L0005550 ,	L0005551 ,	L0005552 ,
	L0005553 ,	L0005554 ,	L0005555 ,	L0005556 ,	L0005557 ,	L0005558 ,	L0005559 ,	L0005560 ,
	L0005561 ,	L0005562 ,	L0005563 ,	L0005564 ,	L0005565 ,	L0005566 ,	L0005567 ,	L0005568 ,
	L0005569 ,	L0005570 ,	L0005571 ,	L0005572 ,	L0005573 ,	L0005574 ,	L0005575 ,	L0005576 ,
	L0005577 ,	L0005578 ,	L0005579 ,	L0005580 ,	L0005581 ,	L0005582 ,	L0005583 ,	L0005584 ,
	L0005585 ,	L0005586 ,	L0005587 ,	L0005588 ,	L0005589 ,	L0005590 ,	L0005591 ,	L0005592 ,
	L0005593 ,	L0005594 ,	L0005595 ,	L0005596 ,	L0005597 ,	L0005598 ,	L0005599 ,	L0005600 ,
	L0005601 ,	L0005602 ,	L0005603 ,	L0005604 ,	L0005605 ,	L0005606 ,	L0005607 ,	L0005608 ,
	L0005609 ,	L0005610 ,	L0005611 ,	L0005612 ,	L0005613 ,	L0005614 ,	L0005615 ,	L0005423 ,
	L0005424 ,	L0005425 ,	L0005426 ,	L0005427 ,	L0005428 ,	L0005429 ,	L0005430 ,	L0005431 ,
	L0005432 ,	L0005433 ,	L0005434 ,	L0005435 ,	L0005436 ,	L0005437 ,	L0005438 ,	L0005439 ,
	L0005440 ,	L0005441 ,	L0005442 ,	L0005443 ,	L0005444 ,	L0005445 ,	L0005446 ,	L0005447 ,
	L0005448 ,	L0005449 ,	L0005450 ,	L0005451 ,	L0005452 ,	L0005453 ,	L0005454 ,	L0005455 ,
	L0005456 ,	L0005457 ,	L0005458 ,	L0005459 ,	L0005460 ,	L0005461 ,	L0005462 ,	L0005463 ,
	L0005464 ,	L0005465 ,	L0005466 ,	L0005467 ,	L0005468 ,	L0005469 ,	L0005470 ,	L0005471 ,
	L0005472 ,	L0005473 ,	L0005474 ,	L0005475 ,	L0005476 ,	L0005477 ,	L0005478 ,	L0005479 ,
	L0005480 ,	L0005481 ,	L0005482 ,	L0005483 ,	L0005484 ,	L0005485 ,	L0005486 ,	L0005487 ,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs							
	L0005488 ,	L0005489 ,	L0005490 ,	L0005491 ,	L0005492 ,	L0005493 ,	L0005494 ,	L0005495 ,
	L0005496 ,	L0005497 ,	L0005498 ,	L0005499 ,	L0005500 ,	L0005501 ,	L0005502 ,	L0005503 ,
	L0005504 ,	L0005505 ,	L0005506 ,	L0005507 ,	L0005508 ,	L0005509 ,	L0005510 ,	L0005511 ,
	L0005512 ,	L0005513 ,	L0005514 ,	L0005515 ,	L0005516 ,	L0005517 ,	L0005518 ,	L0005519 ,
	L0005520 ,	L0005521 ,	L0005522 ,	L0005523 ,	L0005524 ,	L0005525 ,	L0005526 ,	L0005527 ,
	L0005528 ,	L0005529 ,	L0005530 ,	L0005531 ,	L0005532 ,	L0005533 ,	L0005534 ,	L0005535 ,
	L0005536 ,	L0005537 ,	L0005538 ,	L0005539 ,	L0005540 ,	L0005541 ,	L0005542 ,	L0005543 ,
	L0005544 ,	L0005545 ,	L0005356 ,	L0005357 ,	L0005358 ,	L0005359 ,	L0005360 ,	L0005361 ,
	L0005362 ,	L0005363 ,	L0005364 ,	L0005365 ,	L0005366 ,	L0005367 ,	L0005368 ,	L0005369 ,
	L0005370 ,	L0005371 ,	L0005372 ,	L0005373 ,	L0005374 ,	L0005375 ,	L0005376 ,	L0005377 ,
	L0005378 ,	L0005379 ,	L0005380 ,	L0005381 ,	L0005382 ,	L0005383 ,	L0005384 ,	L0005385 ,
	L0005386 ,	L0005387 ,	L0005388 ,	L0005389 ,	L0005390 ,	L0005391 ,	L0005392 ,	L0005393 ,
	L0005394 ,	L0005395 ,	L0005396 ,	L0005397 ,	L0005398 ,	L0005399 ,	L0005400 ,	L0005401 ,
	L0005402 ,	L0005403 ,	L0005404 ,	L0005405 ,	L0005406 ,	L0005407 ,	L0005408 ,	L0005409 ,
	L0005410 ,	L0005411 ,	L0005412 ,	L0005413 ,	L0005414 ,	L0005415 ,	L0005416 ,	L0005417 ,
	L0005418 ,	L0005419 ,	L0005420 ,	L0005421 ,	L0005422 ,	L0005145 ,	L0005146 ,	L0005147 ,
	L0005148 ,	L0005149 ,	L0005150 ,	L0005151 ,	L0005152 ,	L0005153 ,	L0005154 ,	L0005155 ,
	L0005156 ,	L0005157 ,	L0005158 ,	L0005159 ,	L0005160 ,	L0005161 ,	L0005162 ,	L0005163 ,
	L0005164 ,	L0005165 ,	L0005166 ,	L0005167 ,	L0005168 ,	L0005169 ,	L0005170 ,	L0005171 ,
	L0005172 ,	L0005173 ,	L0005174 ,	L0005175 ,	L0005176 ,	L0005177 ,	L0005178 ,	L0005179 ,
	L0005180 ,	L0005181 ,	L0005182 ,	L0005183 ,	L0005184 ,	L0005185 ,	L0005186 ,	L0005187 ,
	L0005188 ,	L0005189 ,	L0005190 ,	L0005191 ,	L0005192 ,	L0005193 ,	L0005194 ,	L0005195 ,
	L0005196 ,	L0005197 ,	L0005198 ,	L0005199 ,	L0005200 ,	L0005201 ,	L0005202 ,	L0005203 ,
	L0005204 ,	L0005205 ,	L0005206 ,	L0005207 ,	L0005208 ,	L0005209 ,	L0005210 ,	L0005211 ,
	L0005212 ,	L0005213 ,	L0005214 ,	L0005215 ,	L0005216 ,	L0005217 ,	L0005218 ,	L0005219 ,
	L0005220 ,	L0005221 ,	L0005222 ,	L0005223 ,	L0005224 ,	L0005225 ,	L0005226 ,	L0005227 ,
	L0005228 ,	L0005229 ,	L0005230 ,	L0005231 ,	L0005232 ,	L0005233 ,	L0005234 ,	L0005235 ,
	L0005236 ,	L0005237 ,	L0005238 ,	L0005239 ,	L0005240 ,	L0005241 ,	L0005242 ,	L0005243 ,
	L0005244 ,	L0005245 ,	L0005246 ,	L0005247 ,	L0005248 ,	L0005249 ,	L0005250 ,	L0005251 ,
	L0005252 ,	L0005253 ,	L0005254 ,	L0005255 ,	L0005256 ,	L0005257 ,	L0005258 ,	L0005259 ,
	L0005260 ,	L0005261 ,	L0005262 ,	L0005263 ,	L0005264 ,	L0005265 ,	L0005266 ,	L0005267 ,
	L0005268 ,	L0005269 ,	L0005270 ,	L0005271 ,	L0005272 ,	L0005273 ,	L0005274 ,	L0005275 ,
	L0005276 ,	L0005277 ,	L0005278 ,	L0005279 ,	L0005280 ,	L0005281 ,	L0005282 ,	L0005283 ,
	L0005284 ,	L0005285 ,	L0005286 ,	L0005287 ,	L0005288 ,	L0005289 ,	L0005290 ,	L0005291 ,
	L0005292 ,	L0005293 ,	L0005294 ,	L0005295 ,	L0005296 ,	L0005297 ,	L0005298 ,	L0005299 ,
	L0005300 ,	L0005301 ,	L0005302 ,	L0005303 ,	L0005304 ,	L0005305 ,	L0005306 ,	L0005307 ,
	L0005308 ,	L0005309 ,	L0005310 ,	L0005311 ,	L0005312 ,	L0005313 ,	L0005314 ,	L0005315 ,
	L0005316 ,	L0005317 ,	L0005318 ,	L0005319 ,	L0005320 ,	L0005321 ,	L0005322 ,	L0005323 ,
	L0005324 ,	L0005325 ,	L0005326 ,	L0005327 ,	L0005328 ,	L0005329 ,	L0005330 ,	L0005331 ,
	L0005332 ,	L0005333 ,	L0005334 ,	L0005335 ,	L0005336 ,	L0005337 ,	L0005338 ,	L0005339 ,
	L0005340 ,	L0005341 ,	L0005342 ,	L0005343 ,	L0005344 ,	L0005345 ,	L0005346 ,	L0005347 ,
	L0005348 ,	L0005349 ,	L0005350 ,	L0005351 ,	L0005352 ,	L0005353 ,	L0005354 ,	L0005355 ,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)


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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
TRUCKBAY	STCK1 , STCK2 , STCK3 , STCK4 , STCK5 , STCK6 , STCK7 , STCK8 ,
	STCK9 , STCK10 , STCK11 , STCK12 , STCK13 , STCK14 , STCK15 , STCK16 ,
	STCK17 , STCK18 , STCK19 , STCK20 , STCK21 , STCK22 , STCK23 , STCK24 ,
	STCK25 , STCK26 , STCK27 , STCK28 , STCK29 , STCK30 , STCK31 , STCK32 ,
	STCK33 , STCK34 , STCK35 , STCK36 , STCK37 , STCK38 , STCK39 , STCK40 ,
	STCK41 , STCK42 , STCK43 , STCK44 , STCK45 , STCK46 , STCK47 , STCK48 ,
	STCK49 , STCK50 , STCK51 , STCK52 , STCK53 , STCK54 , STCK55 , STCK56 ,
	STCK57 , STCK58 , STCK59 , STCK60 , STCK61 , STCK62 , STCK63 , STCK64 ,
	STCK65 , STCK66 , STCK67 , STCK68 , STCK69 , STCK70 , STCK71 , STCK72 ,
	STCK73 , STCK74 , STCK75 , STCK76 , STCK77 , STCK78 , STCK79 , STCK80 ,
	STCK81 , STCK82 , STCK83 , STCK84 , STCK85 , STCK86 , STCK87 , STCK88 ,
	STCK89 , STCK90 , STCK91 , STCK92 , STCK93 , STCK94 , STCK95 , STCK96 ,
	STCK97 , STCK98 , STCK99 , STCK100 , STCK101 , STCK102 , STCK103 , STCK104 ,
	STCK105 , STCK106 , STCK107 , STCK108 , STCK109 , STCK110 , STCK111 , STCK112 ,
	STCK113 , STCK114 , STCK115 , STCK116 , STCK117 , STCK118 , STCK119 , STCK120 ,
	STCK121 , STCK122 , STCK123 , STCK124 , STCK125 , STCK126 , STCK127 , STCK128 ,
	STCK129 , STCK130 , STCK131 , STCK132 , STCK133 , STCK134 , STCK135 , STCK136 ,
	STCK137 , STCK138 , STCK139 , STCK140 , STCK141 , STCK142 , STCK143 , STCK144 ,
	STCK145 , STCK146 , STCK147 , STCK148 , STCK149 , STCK150 , STCK151 , STCK152 ,
	STCK153 , STCK154 , STCK155 , STCK156 , STCK157 , STCK158 , STCK159 , STCK160 ,
	STCK161 , STCK162 , STCK163 , STCK164 , STCK165 , STCK166 , STCK167 , STCK168 ,
	STCK169 , STCK170 , STCK171 , STCK172 , STCK173 , STCK174 , STCK175 , STCK176 ,
	STCK177 , STCK178 , STCK179 , STCK180 , STCK181 , STCK182 , STCK183 , STCK184 ,
	STCK185 , STCK186 , STCK187 , STCK188 , STCK189 , STCK190 , STCK191 , STCK192 ,
	STCK193 , STCK194 , STCK195 , STCK196 , STCK197 , STCK198 , STCK199 , STCK200 ,
	STCK201 , STCK202 , STCK203 , STCK204 , STCK205 , STCK206 , STCK207 , STCK208 ,
	STCK209 , STCK210 , STCK211 , STCK212 , STCK213 , STCK214 , STCK215 , STCK216 ,
	STCK217 , STCK218 , STCK219 , STCK220 , STCK221 , STCK222 , STCK223 , STCK224 ,
	STCK225 , STCK226 , STCK227 , STCK228 , STCK229 , STCK230 , STCK231 , STCK232 ,
	STCK233 , STCK234 , STCK235 , STCK236 , STCK237 , STCK238 , STCK239 , STCK240 ,
	STCK241 , STCK242 , STCK243 , STCK244 , STCK245 , STCK246 , STCK247 , STCK248 ,
	STCK249 , STCK250 , STCK251 , STCK252 , STCK253 , STCK254 , STCK255 , STCK256 ,
	STCK257 , STCK258 , STCK259 , STCK260 , STCK261 , STCK262 , STCK263 , STCK264 ,
	STCK265 , STCK266 , STCK267 , STCK268 , STCK269 ,
ALL	ALL SOURCES (POINT, VOLUME, POLYAREA)

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*** AERMOD - VERSION  18081 ***   *** Ontario Ranch Business Park HRA                                    ***        08/28/19
*** AERMET - VERSION  16216 ***   *** Operation                                                          ***        16:18:20
                                                                                                                    PAGE  63
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINED AS URBAN SOURCES ***

 URBAN ID   URBAN POP                                   SOURCE IDs
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             2035210.   ALL SOURCES (POINT, VOLUME, POLYAREA)
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Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-23.7,	-79.6,	2	16.8,	352.2,	318.5,	-30.8,	-58.3,
3	16.8,	368.3,	347.4,	-37.0,	-35.3,	4	16.8,	373.3,	365.8,	-42.0,	-11.2,
5	16.8,	366.9,	373.0,	-45.8,	13.3,	6	16.8,	349.3,	368.9,	-48.1,	37.4,
7	16.8,	321.2,	353.6,	-49.0,	60.3,	8	16.8,	283.3,	327.6,	-48.4,	81.4,
9	16.8,	237.2,	291.6,	-46.4,	100.2,	10	16.8,	279.9,	325.4,	-83.1,	116.2,
11	16.8,	318.5,	352.2,	-117.8,	128.4,	12	16.8,	347.4,	368.3,	-148.9,	136.7,
13	16.8,	365.8,	373.3,	-175.5,	140.9,	14	16.8,	373.0,	366.9,	-196.8,	140.8,
15	16.8,	368.9,	349.3,	-212.0,	136.4,	16	16.8,	353.6,	321.2,	-220.9,	127.8,
17	16.8,	327.6,	283.3,	-223.0,	115.4,	18	16.8,	291.6,	237.2,	-218.8,	99.4,
19	16.8,	325.4,	279.9,	-256.2,	79.6,	20	16.8,	352.2,	318.5,	-287.7,	58.3,
21	16.8,	368.3,	347.4,	-310.4,	35.3,	22	16.8,	373.3,	365.8,	-323.8,	11.2,
23	16.8,	366.9,	373.0,	-327.3,	-13.3,	24	16.8,	349.3,	368.9,	-320.8,	-37.4,
25	16.8,	321.2,	353.6,	-304.6,	-60.3,	26	16.8,	283.3,	327.6,	-279.2,	-81.4,
27	16.8,	237.2,	291.6,	-245.2,	-100.2,	28	16.8,	279.9,	325.4,	-242.3,	-116.2,
29	16.8,	318.5,	352.2,	-234.4,	-128.4,	30	16.8,	347.4,	368.3,	-219.4,	-136.7,
31	16.8,	365.8,	373.3,	-197.8,	-140.9,	32	16.8,	373.0,	366.9,	-170.1,	-140.8,
33	16.8,	368.9,	349.3,	-137.3,	-136.4,	34	16.8,	353.6,	321.2,	-100.3,	-127.8,
35	16.8,	327.6,	283.3,	-60.3,	-115.4,	36	16.8,	291.6,	237.2,	-18.4,	-99.4,

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-25.2,	-71.1,	2	16.8,	352.2,	318.5,	-33.8,	-50.2,
3	16.8,	368.3,	347.4,	-41.3,	-27.8,	4	16.8,	373.3,	365.8,	-47.5,	-4.5,
5	16.8,	366.9,	373.0,	-52.4,	18.9,	6	16.8,	349.3,	368.9,	-55.6,	41.7,
7	16.8,	321.2,	353.6,	-57.1,	63.2,	8	16.8,	283.3,	327.6,	-56.9,	82.9,
9	16.8,	237.2,	291.6,	-55.0,	100.2,	10	16.8,	279.9,	325.4,	-91.6,	114.7,
11	16.8,	318.5,	352.2,	-125.9,	125.5,	12	16.8,	347.4,	368.3,	-156.4,	132.4,
13	16.8,	365.8,	373.3,	-182.1,	135.3,	14	16.8,	373.0,	366.9,	-202.3,	134.1,
15	16.8,	368.9,	349.3,	-216.4,	128.9,	16	16.8,	353.6,	321.2,	-223.8,	119.7,
17	16.8,	327.6,	283.3,	-224.5,	106.9,	18	16.8,	291.6,	237.2,	-218.8,	90.8,
19	16.8,	325.4,	279.9,	-254.7,	71.1,	20	16.8,	352.2,	318.5,	-284.7,	50.2,
21	16.8,	368.3,	347.4,	-306.1,	27.8,	22	16.8,	373.3,	365.8,	-318.2,	4.5,
23	16.8,	366.9,	373.0,	-320.7,	-18.9,	24	16.8,	349.3,	368.9,	-313.3,	-41.7,
25	16.8,	321.2,	353.6,	-296.5,	-63.2,	26	16.8,	283.3,	327.6,	-270.7,	-82.9,
27	16.8,	237.2,	291.6,	-236.6,	-100.2,	28	16.8,	279.9,	325.4,	-233.8,	-114.7,
29	16.8,	318.5,	352.2,	-226.3,	-125.5,	30	16.8,	347.4,	368.3,	-212.0,	-132.4,
31	16.8,	365.8,	373.3,	-191.2,	-135.3,	32	16.8,	373.0,	366.9,	-164.6,	-134.1,
33	16.8,	368.9,	349.3,	-133.0,	-128.9,	34	16.8,	353.6,	321.2,	-97.4,	-119.7,
35	16.8,	327.6,	283.3,	-58.8,	-106.9,	36	16.8,	291.6,	237.2,	-18.4,	-90.8,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-26.0,	-66.7,	2	16.8,	352.2,	318.5,	-35.3,	-46.0,
3	16.8,	368.3,	347.4,	-43.5,	-23.9,	4	16.8,	373.3,	365.8,	-50.4,	-1.1,
5	16.8,	366.9,	373.0,	-55.8,	21.8,	6	16.8,	349.3,	368.9,	-59.5,	43.9,
7	16.8,	321.2,	353.6,	-61.4,	64.8,	8	16.8,	283.3,	327.6,	-61.4,	83.6,
9	16.8,	237.2,	291.6,	-59.5,	100.2,	10	16.8,	279.9,	325.4,	-96.0,	113.9,
11	16.8,	318.5,	352.2,	-130.1,	123.9,	12	16.8,	347.4,	368.3,	-160.3,	130.2,
13	16.8,	365.8,	373.3,	-185.6,	132.4,	14	16.8,	373.0,	366.9,	-205.2,	130.7,
15	16.8,	368.9,	349.3,	-218.6,	125.0,	16	16.8,	353.6,	321.2,	-225.4,	115.5,
17	16.8,	327.6,	283.3,	-225.3,	102.4,	18	16.8,	291.6,	237.2,	-218.8,	86.3,
19	16.8,	325.4,	279.9,	-253.9,	66.7,	20	16.8,	352.2,	318.5,	-283.2,	46.0,
21	16.8,	368.3,	347.4,	-303.9,	23.9,	22	16.8,	373.3,	365.8,	-315.3,	1.1,
23	16.8,	366.9,	373.0,	-317.2,	-21.8,	24	16.8,	349.3,	368.9,	-309.4,	-43.9,
25	16.8,	321.2,	353.6,	-292.3,	-64.8,	26	16.8,	283.3,	327.6,	-266.2,	-83.6,
27	16.8,	237.2,	291.6,	-232.1,	-100.2,	28	16.8,	279.9,	325.4,	-229.3,	-113.9,
29	16.8,	318.5,	352.2,	-222.1,	-123.9,	30	16.8,	347.4,	368.3,	-208.1,	-130.2,
31	16.8,	365.8,	373.3,	-187.7,	-132.4,	32	16.8,	373.0,	366.9,	-161.7,	-130.7,
33	16.8,	368.9,	349.3,	-130.8,	-125.0,	34	16.8,	353.6,	321.2,	-95.8,	-115.5,
35	16.8,	327.6,	283.3,	-58.0,	-102.4,	36	16.8,	291.6,	237.2,	-18.4,	-86.3,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-26.8,	-62.4,	2	16.8,	352.2,	318.5,	-36.8,	-41.9,
3	16.8,	368.3,	347.4,	-45.7,	-20.2,	4	16.8,	373.3,	365.8,	-53.2,	2.2,
5	16.8,	366.9,	373.0,	-59.1,	24.5,	6	16.8,	349.3,	368.9,	-63.2,	46.1,
7	16.8,	321.2,	353.6,	-65.4,	66.2,	8	16.8,	283.3,	327.6,	-65.6,	84.4,
9	16.8,	237.2,	291.6,	-63.8,	100.2,	10	16.8,	279.9,	325.4,	-100.3,	113.2,
11	16.8,	318.5,	352.2,	-134.2,	122.5,	12	16.8,	347.4,	368.3,	-164.0,	128.0,
13	16.8,	365.8,	373.3,	-188.9,	129.7,	14	16.8,	373.0,	366.9,	-208.0,	127.4,
15	16.8,	368.9,	349.3,	-220.8,	121.2,	16	16.8,	353.6,	321.2,	-226.8,	111.4,
17	16.8,	327.6,	283.3,	-226.0,	98.2,	18	16.8,	291.6,	237.2,	-218.8,	82.0,
19	16.8,	325.4,	279.9,	-253.1,	62.4,	20	16.8,	352.2,	318.5,	-281.7,	41.9,
21	16.8,	368.3,	347.4,	-301.7,	20.2,	22	16.8,	373.3,	365.8,	-312.6,	-2.2,
23	16.8,	366.9,	373.0,	-313.9,	-24.5,	24	16.8,	349.3,	368.9,	-305.7,	-46.1,
25	16.8,	321.2,	353.6,	-288.2,	-66.2,	26	16.8,	283.3,	327.6,	-262.0,	-84.4,
27	16.8,	237.2,	291.6,	-227.8,	-100.2,	28	16.8,	279.9,	325.4,	-225.1,	-113.2,
29	16.8,	318.5,	352.2,	-218.0,	-122.5,	30	16.8,	347.4,	368.3,	-204.3,	-128.0,
31	16.8,	365.8,	373.3,	-184.4,	-129.7,	32	16.8,	373.0,	366.9,	-158.9,	-127.4,
33	16.8,	368.9,	349.3,	-128.6,	-121.2,	34	16.8,	353.6,	321.2,	-94.3,	-111.4,
35	16.8,	327.6,	283.3,	-57.2,	-98.2,	36	16.8,	291.6,	237.2,	-18.4,	-82.0,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK5

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-27.3,	-59.3,	2	16.8,	352.2,	318.5,	-37.9,	-38.9,
3	16.8,	368.3,	347.4,	-47.3,	-17.4,	4	16.8,	373.3,	365.8,	-55.3,	4.6,
5	16.8,	366.9,	373.0,	-61.6,	26.6,	6	16.8,	349.3,	368.9,	-66.0,	47.7,
7	16.8,	321.2,	353.6,	-68.4,	67.3,	8	16.8,	283.3,	327.6,	-68.8,	85.0,
9	16.8,	237.2,	291.6,	-67.0,	100.2,	10	16.8,	279.9,	325.4,	-103.4,	112.6,
11	16.8,	318.5,	352.2,	-137.2,	121.4,	12	16.8,	347.4,	368.3,	-166.8,	126.4,
13	16.8,	365.8,	373.3,	-191.3,	127.6,	14	16.8,	373.0,	366.9,	-210.0,	125.0,
15	16.8,	368.9,	349.3,	-222.4,	118.5,	16	16.8,	353.6,	321.2,	-227.9,	108.4,
17	16.8,	327.6,	283.3,	-226.6,	95.0,	18	16.8,	291.6,	237.2,	-218.8,	78.8,
19	16.8,	325.4,	279.9,	-252.6,	59.3,	20	16.8,	352.2,	318.5,	-280.6,	38.9,
21	16.8,	368.3,	347.4,	-300.1,	17.4,	22	16.8,	373.3,	365.8,	-310.5,	-4.6,
23	16.8,	366.9,	373.0,	-311.5,	-26.6,	24	16.8,	349.3,	368.9,	-302.9,	-47.7,
25	16.8,	321.2,	353.6,	-285.2,	-67.3,	26	16.8,	283.3,	327.6,	-258.9,	-85.0,
27	16.8,	237.2,	291.6,	-224.6,	-100.2,	28	16.8,	279.9,	325.4,	-222.0,	-112.6,
29	16.8,	318.5,	352.2,	-215.0,	-121.4,	30	16.8,	347.4,	368.3,	-201.6,	-126.4,
31	16.8,	365.8,	373.3,	-182.0,	-127.6,	32	16.8,	373.0,	366.9,	-156.9,	-125.0,
33	16.8,	368.9,	349.3,	-127.0,	-118.5,	34	16.8,	353.6,	321.2,	-93.3,	-108.4,
35	16.8,	327.6,	283.3,	-56.7,	-95.0,	36	16.8,	291.6,	237.2,	-18.4,	-78.8,

SOURCE ID: STCK6

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-28.2,	-54.1,	2	16.8,	352.2,	318.5,	-39.7,	-34.0,
3	16.8,	368.3,	347.4,	-49.9,	-12.9,	4	16.8,	373.3,	365.8,	-58.6,	8.7,
5	16.8,	366.9,	373.0,	-65.6,	29.9,	6	16.8,	349.3,	368.9,	-70.5,	50.3,
7	16.8,	321.2,	353.6,	-73.3,	69.1,	8	16.8,	283.3,	327.6,	-73.9,	85.9,
9	16.8,	237.2,	291.6,	-72.3,	100.2,	10	16.8,	279.9,	325.4,	-108.6,	111.7,
11	16.8,	318.5,	352.2,	-142.1,	119.6,	12	16.8,	347.4,	368.3,	-171.3,	123.8,
13	16.8,	365.8,	373.3,	-195.3,	124.2,	14	16.8,	373.0,	366.9,	-213.4,	120.9,
15	16.8,	368.9,	349.3,	-225.0,	113.9,	16	16.8,	353.6,	321.2,	-229.7,	103.5,
17	16.8,	327.6,	283.3,	-227.5,	89.9,	18	16.8,	291.6,	237.2,	-218.8,	73.5,
19	16.8,	325.4,	279.9,	-251.7,	54.1,	20	16.8,	352.2,	318.5,	-278.8,	34.0,
21	16.8,	368.3,	347.4,	-297.5,	12.9,	22	16.8,	373.3,	365.8,	-307.1,	-8.7,
23	16.8,	366.9,	373.0,	-307.4,	-29.9,	24	16.8,	349.3,	368.9,	-298.4,	-50.3,
25	16.8,	321.2,	353.6,	-280.3,	-69.1,	26	16.8,	283.3,	327.6,	-253.7,	-85.9,
27	16.8,	237.2,	291.6,	-219.4,	-100.2,	28	16.8,	279.9,	325.4,	-216.8,	-111.7,
29	16.8,	318.5,	352.2,	-210.1,	-119.6,	30	16.8,	347.4,	368.3,	-197.0,	-123.8,
31	16.8,	365.8,	373.3,	-178.0,	-124.2,	32	16.8,	373.0,	366.9,	-153.5,	-120.9,
33	16.8,	368.9,	349.3,	-124.4,	-113.9,	34	16.8,	353.6,	321.2,	-91.5,	-103.5,
35	16.8,	327.6,	283.3,	-55.8,	-89.9,	36	16.8,	291.6,	237.2,	-18.4,	-73.5,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK7

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-29.0,	-49.8,	2	16.8,	352.2,	318.5,	-41.1,	-29.9,
3	16.8,	368.3,	347.4,	-52.1,	-9.1,	4	16.8,	373.3,	365.8,	-61.4,	12.0,
5	16.8,	366.9,	373.0,	-68.9,	32.7,	6	16.8,	349.3,	368.9,	-74.3,	52.5,
7	16.8,	321.2,	353.6,	-77.4,	70.6,	8	16.8,	283.3,	327.6,	-78.2,	86.6,
9	16.8,	237.2,	291.6,	-76.6,	100.2,	10	16.8,	279.9,	325.4,	-112.8,	111.0,
11	16.8,	318.5,	352.2,	-146.2,	118.1,	12	16.8,	347.4,	368.3,	-175.1,	121.6,
13	16.8,	365.8,	373.3,	-198.6,	121.5,	14	16.8,	373.0,	366.9,	-216.2,	117.6,
15	16.8,	368.9,	349.3,	-227.1,	110.2,	16	16.8,	353.6,	321.2,	-231.2,	99.4,
17	16.8,	327.6,	283.3,	-228.2,	85.6,	18	16.8,	291.6,	237.2,	-218.8,	69.2,
19	16.8,	325.4,	279.9,	-250.9,	49.8,	20	16.8,	352.2,	318.5,	-277.3,	29.9,
21	16.8,	368.3,	347.4,	-295.3,	9.1,	22	16.8,	373.3,	365.8,	-304.4,	-12.0,
23	16.8,	366.9,	373.0,	-304.1,	-32.7,	24	16.8,	349.3,	368.9,	-294.7,	-52.5,
25	16.8,	321.2,	353.6,	-276.2,	-70.6,	26	16.8,	283.3,	327.6,	-249.4,	-86.6,
27	16.8,	237.2,	291.6,	-215.0,	-100.2,	28	16.8,	279.9,	325.4,	-212.5,	-111.0,
29	16.8,	318.5,	352.2,	-206.0,	-118.1,	30	16.8,	347.4,	368.3,	-193.3,	-121.6,
31	16.8,	365.8,	373.3,	-174.7,	-121.5,	32	16.8,	373.0,	366.9,	-150.7,	-117.6,
33	16.8,	368.9,	349.3,	-122.2,	-110.2,	34	16.8,	353.6,	321.2,	-90.0,	-99.4,
35	16.8,	327.6,	283.3,	-55.0,	-85.6,	36	16.8,	291.6,	237.2,	-18.4,	-69.2,

SOURCE ID: STCK8

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-29.8,	-45.4,	2	16.8,	352.2,	318.5,	-42.7,	-25.7,
3	16.8,	368.3,	347.4,	-54.3,	-5.2,	4	16.8,	373.3,	365.8,	-64.3,	15.4,
5	16.8,	366.9,	373.0,	-72.3,	35.6,	6	16.8,	349.3,	368.9,	-78.2,	54.7,
7	16.8,	321.2,	353.6,	-81.6,	72.1,	8	16.8,	283.3,	327.6,	-82.6,	87.4,
9	16.8,	237.2,	291.6,	-81.1,	100.2,	10	16.8,	279.9,	325.4,	-117.3,	110.2,
11	16.8,	318.5,	352.2,	-150.4,	116.5,	12	16.8,	347.4,	368.3,	-179.0,	119.4,
13	16.8,	365.8,	373.3,	-202.1,	118.6,	14	16.8,	373.0,	366.9,	-219.1,	114.2,
15	16.8,	368.9,	349.3,	-229.4,	106.3,	16	16.8,	353.6,	321.2,	-232.7,	95.2,
17	16.8,	327.6,	283.3,	-229.0,	81.2,	18	16.8,	291.6,	237.2,	-218.8,	64.7,
19	16.8,	325.4,	279.9,	-250.1,	45.4,	20	16.8,	352.2,	318.5,	-275.8,	25.7,
21	16.8,	368.3,	347.4,	-293.1,	5.2,	22	16.8,	373.3,	365.8,	-301.5,	-15.4,
23	16.8,	366.9,	373.0,	-300.7,	-35.6,	24	16.8,	349.3,	368.9,	-290.8,	-54.7,
25	16.8,	321.2,	353.6,	-272.0,	-72.1,	26	16.8,	283.3,	327.6,	-245.0,	-87.4,
27	16.8,	237.2,	291.6,	-210.5,	-100.2,	28	16.8,	279.9,	325.4,	-208.1,	-110.2,
29	16.8,	318.5,	352.2,	-201.8,	-116.5,	30	16.8,	347.4,	368.3,	-189.4,	-119.4,
31	16.8,	365.8,	373.3,	-171.2,	-118.6,	32	16.8,	373.0,	366.9,	-147.8,	-114.2,
33	16.8,	368.9,	349.3,	-120.0,	-106.3,	34	16.8,	353.6,	321.2,	-88.4,	-95.2,
35	16.8,	327.6,	283.3,	-54.2,	-81.2,	36	16.8,	291.6,	237.2,	-18.4,	-64.7,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK9

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-31.2,	-37.1,	2	16.8,	352.2,	318.5,	-45.6,	-17.8,
3	16.8,	368.3,	347.4,	-58.5,	2.1,	4	16.8,	373.3,	365.8,	-69.7,	21.9,
5	16.8,	366.9,	373.0,	-78.8,	41.0,	6	16.8,	349.3,	368.9,	-85.5,	58.9,
7	16.8,	321.2,	353.6,	-89.6,	75.0,	8	16.8,	283.3,	327.6,	-90.9,	88.9,
9	16.8,	237.2,	291.6,	-89.5,	100.2,	10	16.8,	279.9,	325.4,	-125.6,	108.7,
11	16.8,	318.5,	352.2,	-158.3,	113.7,	12	16.8,	347.4,	368.3,	-186.3,	115.1,
13	16.8,	365.8,	373.3,	-208.6,	113.1,	14	16.8,	373.0,	366.9,	-224.5,	107.7,
15	16.8,	368.9,	349.3,	-233.6,	99.0,	16	16.8,	353.6,	321.2,	-235.6,	87.2,
17	16.8,	327.6,	283.3,	-230.5,	72.9,	18	16.8,	291.6,	237.2,	-218.8,	56.3,
19	16.8,	325.4,	279.9,	-248.7,	37.1,	20	16.8,	352.2,	318.5,	-272.9,	17.8,
21	16.8,	368.3,	347.4,	-288.9,	-2.1,	22	16.8,	373.3,	365.8,	-296.0,	-21.9,
23	16.8,	366.9,	373.0,	-294.2,	-41.0,	24	16.8,	349.3,	368.9,	-283.4,	-58.9,
25	16.8,	321.2,	353.6,	-264.1,	-75.0,	26	16.8,	283.3,	327.6,	-236.7,	-88.9,
27	16.8,	237.2,	291.6,	-202.1,	-100.2,	28	16.8,	279.9,	325.4,	-199.8,	-108.7,
29	16.8,	318.5,	352.2,	-193.9,	-113.7,	30	16.8,	347.4,	368.3,	-182.1,	-115.1,
31	16.8,	365.8,	373.3,	-164.7,	-113.1,	32	16.8,	373.0,	366.9,	-142.4,	-107.7,
33	16.8,	368.9,	349.3,	-115.7,	-99.0,	34	16.8,	353.6,	321.2,	-85.5,	-87.2,
35	16.8,	327.6,	283.3,	-52.8,	-72.9,	36	16.8,	291.6,	237.2,	-18.4,	-56.3,

SOURCE ID: STCK10

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-32.0,	-32.8,	2	16.8,	352.2,	318.5,	-47.1,	-13.7,
3	16.8,	368.3,	347.4,	-60.7,	5.8,	4	16.8,	373.3,	365.8,	-72.5,	25.2,
5	16.8,	366.9,	373.0,	-82.1,	43.8,	6	16.8,	349.3,	368.9,	-89.2,	61.1,
7	16.8,	321.2,	353.6,	-93.6,	76.5,	8	16.8,	283.3,	327.6,	-95.2,	89.6,
9	16.8,	237.2,	291.6,	-93.8,	100.2,	10	16.8,	279.9,	325.4,	-129.8,	108.0,
11	16.8,	318.5,	352.2,	-162.4,	112.2,	12	16.8,	347.4,	368.3,	-190.0,	113.0,
13	16.8,	365.8,	373.3,	-211.9,	110.4,	14	16.8,	373.0,	366.9,	-227.3,	104.4,
15	16.8,	368.9,	349.3,	-235.8,	95.2,	16	16.8,	353.6,	321.2,	-237.1,	83.2,
17	16.8,	327.6,	283.3,	-231.2,	68.6,	18	16.8,	291.6,	237.2,	-218.8,	52.0,
19	16.8,	325.4,	279.9,	-247.9,	32.8,	20	16.8,	352.2,	318.5,	-271.4,	13.7,
21	16.8,	368.3,	347.4,	-286.7,	-5.8,	22	16.8,	373.3,	365.8,	-293.2,	-25.2,
23	16.8,	366.9,	373.0,	-290.9,	-43.8,	24	16.8,	349.3,	368.9,	-279.7,	-61.1,
25	16.8,	321.2,	353.6,	-260.0,	-76.5,	26	16.8,	283.3,	327.6,	-232.4,	-89.6,
27	16.8,	237.2,	291.6,	-197.8,	-100.2,	28	16.8,	279.9,	325.4,	-195.5,	-108.0,
29	16.8,	318.5,	352.2,	-189.8,	-112.2,	30	16.8,	347.4,	368.3,	-178.3,	-113.0,
31	16.8,	365.8,	373.3,	-161.4,	-110.4,	32	16.8,	373.0,	366.9,	-139.6,	-104.4,
33	16.8,	368.9,	349.3,	-113.6,	-95.2,	34	16.8,	353.6,	321.2,	-84.1,	-83.2,
35	16.8,	327.6,	283.3,	-52.0,	-68.6,	36	16.8,	291.6,	237.2,	-18.4,	-52.0,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK11

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-32.7,	-28.6,	2	16.8,	352.2,	318.5,	-48.5,	-9.7,
3	16.8,	368.3,	347.4,	-62.9,	9.6,	4	16.8,	373.3,	365.8,	-75.3,	28.5,
5	16.8,	366.9,	373.0,	-85.4,	46.6,	6	16.8,	349.3,	368.9,	-93.0,	63.3,
7	16.8,	321.2,	353.6,	-97.7,	78.0,	8	16.8,	283.3,	327.6,	-99.4,	90.4,
9	16.8,	237.2,	291.6,	-98.2,	100.2,	10	16.8,	279.9,	325.4,	-134.1,	107.2,
11	16.8,	318.5,	352.2,	-166.5,	110.7,	12	16.8,	347.4,	368.3,	-193.8,	110.8,
13	16.8,	365.8,	373.3,	-215.2,	107.6,	14	16.8,	373.0,	366.9,	-230.0,	101.1,
15	16.8,	368.9,	349.3,	-237.9,	91.5,	16	16.8,	353.6,	321.2,	-238.6,	79.1,
17	16.8,	327.6,	283.3,	-232.0,	64.4,	18	16.8,	291.6,	237.2,	-218.8,	47.6,
19	16.8,	325.4,	279.9,	-247.2,	28.6,	20	16.8,	352.2,	318.5,	-269.9,	9.7,
21	16.8,	368.3,	347.4,	-284.5,	-9.6,	22	16.8,	373.3,	365.8,	-290.5,	-28.5,
23	16.8,	366.9,	373.0,	-287.6,	-46.6,	24	16.8,	349.3,	368.9,	-276.0,	-63.3,
25	16.8,	321.2,	353.6,	-256.0,	-78.0,	26	16.8,	283.3,	327.6,	-228.2,	-90.4,
27	16.8,	237.2,	291.6,	-193.5,	-100.2,	28	16.8,	279.9,	325.4,	-191.3,	-107.2,
29	16.8,	318.5,	352.2,	-185.8,	-110.7,	30	16.8,	347.4,	368.3,	-174.6,	-110.8,
31	16.8,	365.8,	373.3,	-158.1,	-107.6,	32	16.8,	373.0,	366.9,	-136.9,	-101.1,
33	16.8,	368.9,	349.3,	-111.4,	-91.5,	34	16.8,	353.6,	321.2,	-82.6,	-79.1,
35	16.8,	327.6,	283.3,	-51.3,	-64.4,	36	16.8,	291.6,	237.2,	-18.4,	-47.6,

SOURCE ID: STCK12

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-33.4,	-24.5,	2	16.8,	352.2,	318.5,	-49.9,	-5.8,
3	16.8,	368.3,	347.4,	-64.9,	13.2,	4	16.8,	373.3,	365.8,	-78.0,	31.7,
5	16.8,	366.9,	373.0,	-88.6,	49.2,	6	16.8,	349.3,	368.9,	-96.5,	65.3,
7	16.8,	321.2,	353.6,	-101.6,	79.4,	8	16.8,	283.3,	327.6,	-103.5,	91.1,
9	16.8,	237.2,	291.6,	-102.3,	100.2,	10	16.8,	279.9,	325.4,	-138.2,	106.5,
11	16.8,	318.5,	352.2,	-170.3,	109.3,	12	16.8,	347.4,	368.3,	-197.3,	108.8,
13	16.8,	365.8,	373.3,	-218.3,	104.9,	14	16.8,	373.0,	366.9,	-232.7,	97.9,
15	16.8,	368.9,	349.3,	-240.0,	87.9,	16	16.8,	353.6,	321.2,	-240.0,	75.2,
17	16.8,	327.6,	283.3,	-232.7,	60.3,	18	16.8,	291.6,	237.2,	-218.8,	43.5,
19	16.8,	325.4,	279.9,	-246.4,	24.5,	20	16.8,	352.2,	318.5,	-268.5,	5.8,
21	16.8,	368.3,	347.4,	-282.5,	-13.2,	22	16.8,	373.3,	365.8,	-287.8,	-31.7,
23	16.8,	366.9,	373.0,	-284.4,	-49.2,	24	16.8,	349.3,	368.9,	-272.4,	-65.3,
25	16.8,	321.2,	353.6,	-252.1,	-79.4,	26	16.8,	283.3,	327.6,	-224.1,	-91.1,
27	16.8,	237.2,	291.6,	-189.3,	-100.2,	28	16.8,	279.9,	325.4,	-187.2,	-106.5,
29	16.8,	318.5,	352.2,	-181.9,	-109.3,	30	16.8,	347.4,	368.3,	-171.0,	-108.8,
31	16.8,	365.8,	373.3,	-155.0,	-104.9,	32	16.8,	373.0,	366.9,	-134.2,	-97.9,
33	16.8,	368.9,	349.3,	-109.3,	-87.9,	34	16.8,	353.6,	321.2,	-81.2,	-75.2,
35	16.8,	327.6,	283.3,	-50.6,	-60.3,	36	16.8,	291.6,	237.2,	-18.4,	-43.5,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK13

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-34.2,	-20.3,	2	16.8,	352.2,	318.5,	-51.4,	-1.7,
3	16.8,	368.3,	347.4,	-67.1,	16.9,	4	16.8,	373.3,	365.8,	-80.7,	35.0,
5	16.8,	366.9,	373.0,	-91.9,	52.0,	6	16.8,	349.3,	368.9,	-100.3,	67.5,
7	16.8,	321.2,	353.6,	-105.6,	80.9,	8	16.8,	283.3,	327.6,	-107.7,	91.8,
9	16.8,	237.2,	291.6,	-106.6,	100.2,	10	16.8,	279.9,	325.4,	-142.4,	105.8,
11	16.8,	318.5,	352.2,	-174.4,	107.8,	12	16.8,	347.4,	368.3,	-201.1,	106.6,
13	16.8,	365.8,	373.3,	-221.6,	102.2,	14	16.8,	373.0,	366.9,	-235.5,	94.6,
15	16.8,	368.9,	349.3,	-242.2,	84.2,	16	16.8,	353.6,	321.2,	-241.5,	71.2,
17	16.8,	327.6,	283.3,	-233.5,	56.1,	18	16.8,	291.6,	237.2,	-218.8,	39.2,
19	16.8,	325.4,	279.9,	-245.7,	20.3,	20	16.8,	352.2,	318.5,	-267.1,	1.7,
21	16.8,	368.3,	347.4,	-280.3,	-16.9,	22	16.8,	373.3,	365.8,	-285.1,	-35.0,
23	16.8,	366.9,	373.0,	-281.1,	-52.0,	24	16.8,	349.3,	368.9,	-268.7,	-67.5,
25	16.8,	321.2,	353.6,	-248.0,	-80.9,	26	16.8,	283.3,	327.6,	-219.9,	-91.8,
27	16.8,	237.2,	291.6,	-185.0,	-100.2,	28	16.8,	279.9,	325.4,	-183.0,	-105.8,
29	16.8,	318.5,	352.2,	-177.8,	-107.8,	30	16.8,	347.4,	368.3,	-167.3,	-106.6,
31	16.8,	365.8,	373.3,	-151.7,	-102.2,	32	16.8,	373.0,	366.9,	-131.4,	-94.6,
33	16.8,	368.9,	349.3,	-107.2,	-84.2,	34	16.8,	353.6,	321.2,	-79.7,	-71.2,
35	16.8,	327.6,	283.3,	-49.8,	-56.1,	36	16.8,	291.6,	237.2,	-18.4,	-39.2,

SOURCE ID: STCK14

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-35.0,	-15.5,	2	16.8,	352.2,	318.5,	-53.1,	2.9,
3	16.8,	368.3,	347.4,	-69.5,	21.1,	4	16.8,	373.3,	365.8,	-83.8,	38.7,
5	16.8,	366.9,	373.0,	-95.6,	55.2,	6	16.8,	349.3,	368.9,	-104.5,	69.9,
7	16.8,	321.2,	353.6,	-110.2,	82.5,	8	16.8,	283.3,	327.6,	-112.5,	92.7,
9	16.8,	237.2,	291.6,	-111.5,	100.2,	10	16.8,	279.9,	325.4,	-147.2,	104.9,
11	16.8,	318.5,	352.2,	-179.0,	106.1,	12	16.8,	347.4,	368.3,	-205.3,	104.2,
13	16.8,	365.8,	373.3,	-225.4,	99.0,	14	16.8,	373.0,	366.9,	-238.6,	90.9,
15	16.8,	368.9,	349.3,	-244.6,	80.0,	16	16.8,	353.6,	321.2,	-243.1,	66.6,
17	16.8,	327.6,	283.3,	-234.3,	51.2,	18	16.8,	291.6,	237.2,	-218.8,	34.3,
19	16.8,	325.4,	279.9,	-244.8,	15.5,	20	16.8,	352.2,	318.5,	-265.4,	-2.9,
21	16.8,	368.3,	347.4,	-277.9,	-21.1,	22	16.8,	373.3,	365.8,	-281.9,	-38.7,
23	16.8,	366.9,	373.0,	-277.4,	-55.2,	24	16.8,	349.3,	368.9,	-264.4,	-69.9,
25	16.8,	321.2,	353.6,	-243.4,	-82.5,	26	16.8,	283.3,	327.6,	-215.1,	-92.7,
27	16.8,	237.2,	291.6,	-180.1,	-100.2,	28	16.8,	279.9,	325.4,	-178.2,	-104.9,
29	16.8,	318.5,	352.2,	-173.2,	-106.1,	30	16.8,	347.4,	368.3,	-163.1,	-104.2,
31	16.8,	365.8,	373.3,	-147.9,	-99.0,	32	16.8,	373.0,	366.9,	-128.3,	-90.9,
33	16.8,	368.9,	349.3,	-104.8,	-80.0,	34	16.8,	353.6,	321.2,	-78.0,	-66.6,
35	16.8,	327.6,	283.3,	-49.0,	-51.2,	36	16.8,	291.6,	237.2,	-18.4,	-34.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK15

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-35.7,	-11.8,	2	16.8,	352.2,	318.5,	-54.4,	6.4,
3	16.8,	368.3,	347.4,	-71.4,	24.4,	4	16.8,	373.3,	365.8,	-86.3,	41.6,
5	16.8,	366.9,	373.0,	-98.5,	57.6,	6	16.8,	349.3,	368.9,	-107.8,	71.8,
7	16.8,	321.2,	353.6,	-113.7,	83.8,	8	16.8,	283.3,	327.6,	-116.2,	93.3,
9	16.8,	237.2,	291.6,	-115.2,	100.2,	10	16.8,	279.9,	325.4,	-150.9,	104.2,
11	16.8,	318.5,	352.2,	-182.5,	104.9,	12	16.8,	347.4,	368.3,	-208.5,	102.3,
13	16.8,	365.8,	373.3,	-228.2,	96.6,	14	16.8,	373.0,	366.9,	-241.0,	88.0,
15	16.8,	368.9,	349.3,	-246.5,	76.7,	16	16.8,	353.6,	321.2,	-244.4,	63.1,
17	16.8,	327.6,	283.3,	-235.0,	47.6,	18	16.8,	291.6,	237.2,	-218.8,	30.6,
19	16.8,	325.4,	279.9,	-244.2,	11.8,	20	16.8,	352.2,	318.5,	-264.1,	-6.4,
21	16.8,	368.3,	347.4,	-276.0,	-24.4,	22	16.8,	373.3,	365.8,	-279.5,	-41.6,
23	16.8,	366.9,	373.0,	-274.5,	-57.6,	24	16.8,	349.3,	368.9,	-261.2,	-71.8,
25	16.8,	321.2,	353.6,	-239.9,	-83.8,	26	16.8,	283.3,	327.6,	-211.4,	-93.3,
27	16.8,	237.2,	291.6,	-176.4,	-100.2,	28	16.8,	279.9,	325.4,	-174.5,	-104.2,
29	16.8,	318.5,	352.2,	-169.7,	-104.9,	30	16.8,	347.4,	368.3,	-159.8,	-102.3,
31	16.8,	365.8,	373.3,	-145.0,	-96.6,	32	16.8,	373.0,	366.9,	-125.9,	-88.0,
33	16.8,	368.9,	349.3,	-102.9,	-76.7,	34	16.8,	353.6,	321.2,	-76.8,	-63.1,
35	16.8,	327.6,	283.3,	-48.3,	-47.6,	36	16.8,	291.6,	237.2,	-18.4,	-30.6,

SOURCE ID: STCK16

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-37.2,	-3.1,	2	16.8,	352.2,	318.5,	-57.4,	14.7,
3	16.8,	368.3,	347.4,	-75.8,	32.0,	4	16.8,	373.3,	365.8,	-91.9,	48.4,
5	16.8,	366.9,	373.0,	-105.3,	63.2,	6	16.8,	349.3,	368.9,	-115.4,	76.2,
7	16.8,	321.2,	353.6,	-122.0,	86.8,	8	16.8,	283.3,	327.6,	-124.9,	94.8,
9	16.8,	237.2,	291.6,	-124.0,	100.2,	10	16.8,	279.9,	325.4,	-159.6,	102.7,
11	16.8,	318.5,	352.2,	-190.8,	101.8,	12	16.8,	347.4,	368.3,	-216.2,	97.9,
13	16.8,	365.8,	373.3,	-235.0,	91.0,	14	16.8,	373.0,	366.9,	-246.7,	81.2,
15	16.8,	368.9,	349.3,	-250.9,	69.1,	16	16.8,	353.6,	321.2,	-247.4,	54.8,
17	16.8,	327.6,	283.3,	-236.5,	38.9,	18	16.8,	291.6,	237.2,	-218.8,	21.8,
19	16.8,	325.4,	279.9,	-242.7,	3.1,	20	16.8,	352.2,	318.5,	-261.1,	-14.7,
21	16.8,	368.3,	347.4,	-271.6,	-32.0,	22	16.8,	373.3,	365.8,	-273.8,	-48.4,
23	16.8,	366.9,	373.0,	-267.8,	-63.2,	24	16.8,	349.3,	368.9,	-253.5,	-76.2,
25	16.8,	321.2,	353.6,	-231.6,	-86.8,	26	16.8,	283.3,	327.6,	-202.7,	-94.8,
27	16.8,	237.2,	291.6,	-167.6,	-100.2,	28	16.8,	279.9,	325.4,	-165.8,	-102.7,
29	16.8,	318.5,	352.2,	-161.4,	-101.8,	30	16.8,	347.4,	368.3,	-152.2,	-97.9,
31	16.8,	365.8,	373.3,	-138.3,	-91.0,	32	16.8,	373.0,	366.9,	-120.2,	-81.2,
33	16.8,	368.9,	349.3,	-98.5,	-69.1,	34	16.8,	353.6,	321.2,	-73.7,	-54.8,
35	16.8,	327.6,	283.3,	-46.8,	-38.9,	36	16.8,	291.6,	237.2,	-18.4,	-21.8,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK17

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-38.0,	1.4,	2	16.8,	352.2,	318.5,	-58.9,	19.0,
3	16.8,	368.3,	347.4,	-78.1,	35.9,	4	16.8,	373.3,	365.8,	-94.9,	51.8,
5	16.8,	366.9,	373.0,	-108.8,	66.2,	6	16.8,	349.3,	368.9,	-119.3,	78.5,
7	16.8,	321.2,	353.6,	-126.3,	88.4,	8	16.8,	283.3,	327.6,	-129.4,	95.6,
9	16.8,	237.2,	291.6,	-128.6,	100.2,	10	16.8,	279.9,	325.4,	-164.1,	101.9,
11	16.8,	318.5,	352.2,	-195.1,	100.3,	12	16.8,	347.4,	368.3,	-220.1,	95.6,
13	16.8,	365.8,	373.3,	-238.5,	88.0,	14	16.8,	373.0,	366.9,	-249.6,	77.8,
15	16.8,	368.9,	349.3,	-253.2,	65.1,	16	16.8,	353.6,	321.2,	-249.0,	50.5,
17	16.8,	327.6,	283.3,	-237.3,	34.4,	18	16.8,	291.6,	237.2,	-218.8,	17.2,
19	16.8,	325.4,	279.9,	-241.9,	-1.4,	20	16.8,	352.2,	318.5,	-259.5,	-19.0,
21	16.8,	368.3,	347.4,	-269.3,	-35.9,	22	16.8,	373.3,	365.8,	-270.9,	-51.8,
23	16.8,	366.9,	373.0,	-264.3,	-66.2,	24	16.8,	349.3,	368.9,	-249.6,	-78.5,
25	16.8,	321.2,	353.6,	-227.3,	-88.4,	26	16.8,	283.3,	327.6,	-198.2,	-95.6,
27	16.8,	237.2,	291.6,	-163.0,	-100.2,	28	16.8,	279.9,	325.4,	-161.3,	-101.9,
29	16.8,	318.5,	352.2,	-157.1,	-100.3,	30	16.8,	347.4,	368.3,	-148.2,	-95.6,
31	16.8,	365.8,	373.3,	-134.8,	-88.0,	32	16.8,	373.0,	366.9,	-117.3,	-77.8,
33	16.8,	368.9,	349.3,	-96.2,	-65.1,	34	16.8,	353.6,	321.2,	-72.2,	-50.5,
35	16.8,	327.6,	283.3,	-46.0,	-34.4,	36	16.8,	291.6,	237.2,	-18.4,	-17.2,

SOURCE ID: STCK18

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-38.6,	4.8,	2	16.8,	352.2,	318.5,	-60.1,	22.3,
3	16.8,	368.3,	347.4,	-79.8,	39.0,	4	16.8,	373.3,	365.8,	-97.1,	54.5,
5	16.8,	366.9,	373.0,	-111.4,	68.4,	6	16.8,	349.3,	368.9,	-122.4,	80.2,
7	16.8,	321.2,	353.6,	-129.6,	89.6,	8	16.8,	283.3,	327.6,	-132.9,	96.3,
9	16.8,	237.2,	291.6,	-132.1,	100.2,	10	16.8,	279.9,	325.4,	-167.5,	101.3,
11	16.8,	318.5,	352.2,	-198.4,	99.1,	12	16.8,	347.4,	368.3,	-223.2,	93.8,
13	16.8,	365.8,	373.3,	-241.2,	85.8,	14	16.8,	373.0,	366.9,	-251.9,	75.1,
15	16.8,	368.9,	349.3,	-254.9,	62.1,	16	16.8,	353.6,	321.2,	-250.2,	47.2,
17	16.8,	327.6,	283.3,	-237.9,	30.9,	18	16.8,	291.6,	237.2,	-218.8,	13.7,
19	16.8,	325.4,	279.9,	-241.3,	-4.8,	20	16.8,	352.2,	318.5,	-258.3,	-22.3,
21	16.8,	368.3,	347.4,	-267.6,	-39.0,	22	16.8,	373.3,	365.8,	-268.6,	-54.5,
23	16.8,	366.9,	373.0,	-261.6,	-68.4,	24	16.8,	349.3,	368.9,	-246.6,	-80.2,
25	16.8,	321.2,	353.6,	-224.0,	-89.6,	26	16.8,	283.3,	327.6,	-194.7,	-96.3,
27	16.8,	237.2,	291.6,	-159.5,	-100.2,	28	16.8,	279.9,	325.4,	-157.8,	-101.3,
29	16.8,	318.5,	352.2,	-153.8,	-99.1,	30	16.8,	347.4,	368.3,	-145.2,	-93.8,
31	16.8,	365.8,	373.3,	-132.1,	-85.8,	32	16.8,	373.0,	366.9,	-115.0,	-75.1,
33	16.8,	368.9,	349.3,	-94.4,	-62.1,	34	16.8,	353.6,	321.2,	-71.0,	-47.2,
35	16.8,	327.6,	283.3,	-45.4,	-30.9,	36	16.8,	291.6,	237.2,	-18.4,	-13.7,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK19

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-39.4,	9.4,	2	16.8,	352.2,	318.5,	-61.7,	26.6,
3	16.8,	368.3,	347.4,	-82.2,	43.0,	4	16.8,	373.3,	365.8,	-100.1,	58.1,
5	16.8,	366.9,	373.0,	-115.0,	71.4,	6	16.8,	349.3,	368.9,	-126.4,	82.5,
7	16.8,	321.2,	353.6,	-134.0,	91.2,	8	16.8,	283.3,	327.6,	-137.4,	97.1,
9	16.8,	237.2,	291.6,	-136.8,	100.2,	10	16.8,	279.9,	325.4,	-172.1,	100.5,
11	16.8,	318.5,	352.2,	-202.7,	97.5,	12	16.8,	347.4,	368.3,	-227.2,	91.5,
13	16.8,	365.8,	373.3,	-244.7,	82.8,	14	16.8,	373.0,	366.9,	-254.9,	71.5,
15	16.8,	368.9,	349.3,	-257.2,	58.1,	16	16.8,	353.6,	321.2,	-251.8,	42.9,
17	16.8,	327.6,	283.3,	-238.7,	26.4,	18	16.8,	291.6,	237.2,	-218.8,	9.1,
19	16.8,	325.4,	279.9,	-240.5,	-9.4,	20	16.8,	352.2,	318.5,	-256.8,	-26.6,
21	16.8,	368.3,	347.4,	-265.2,	-43.0,	22	16.8,	373.3,	365.8,	-265.7,	-58.1,
23	16.8,	366.9,	373.0,	-258.0,	-71.4,	24	16.8,	349.3,	368.9,	-242.5,	-82.5,
25	16.8,	321.2,	353.6,	-219.7,	-91.2,	26	16.8,	283.3,	327.6,	-190.2,	-97.1,
27	16.8,	237.2,	291.6,	-154.9,	-100.2,	28	16.8,	279.9,	325.4,	-153.3,	-100.5,
29	16.8,	318.5,	352.2,	-149.5,	-97.5,	30	16.8,	347.4,	368.3,	-141.2,	-91.5,
31	16.8,	365.8,	373.3,	-128.6,	-82.8,	32	16.8,	373.0,	366.9,	-112.0,	-71.5,
33	16.8,	368.9,	349.3,	-92.1,	-58.1,	34	16.8,	353.6,	321.2,	-69.4,	-42.9,
35	16.8,	327.6,	283.3,	-44.6,	-26.4,	36	16.8,	291.6,	237.2,	-18.4,	-9.1,

SOURCE ID: STCK20

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-40.2,	13.8,	2	16.8,	352.2,	318.5,	-63.3,	30.8,
3	16.8,	368.3,	347.4,	-84.4,	46.9,	4	16.8,	373.3,	365.8,	-103.0,	61.5,
5	16.8,	366.9,	373.0,	-118.4,	74.3,	6	16.8,	349.3,	368.9,	-130.2,	84.8,
7	16.8,	321.2,	353.6,	-138.1,	92.7,	8	16.8,	283.3,	327.6,	-141.8,	97.8,
9	16.8,	237.2,	291.6,	-141.2,	100.2,	10	16.8,	279.9,	325.4,	-176.5,	99.7,
11	16.8,	318.5,	352.2,	-206.9,	96.0,	12	16.8,	347.4,	368.3,	-231.0,	89.3,
13	16.8,	365.8,	373.3,	-248.1,	79.9,	14	16.8,	373.0,	366.9,	-257.7,	68.1,
15	16.8,	368.9,	349.3,	-259.4,	54.2,	16	16.8,	353.6,	321.2,	-253.3,	38.7,
17	16.8,	327.6,	283.3,	-239.5,	22.0,	18	16.8,	291.6,	237.2,	-218.8,	4.6,
19	16.8,	325.4,	279.9,	-239.7,	-13.8,	20	16.8,	352.2,	318.5,	-255.2,	-30.8,
21	16.8,	368.3,	347.4,	-263.0,	-46.9,	22	16.8,	373.3,	365.8,	-262.8,	-61.5,
23	16.8,	366.9,	373.0,	-254.6,	-74.3,	24	16.8,	349.3,	368.9,	-238.7,	-84.8,
25	16.8,	321.2,	353.6,	-215.5,	-92.7,	26	16.8,	283.3,	327.6,	-185.8,	-97.8,
27	16.8,	237.2,	291.6,	-150.4,	-100.2,	28	16.8,	279.9,	325.4,	-148.9,	-99.7,
29	16.8,	318.5,	352.2,	-145.3,	-96.0,	30	16.8,	347.4,	368.3,	-137.3,	-89.3,
31	16.8,	365.8,	373.3,	-125.1,	-79.9,	32	16.8,	373.0,	366.9,	-109.2,	-68.1,
33	16.8,	368.9,	349.3,	-89.9,	-54.2,	34	16.8,	353.6,	321.2,	-67.9,	-38.7,
35	16.8,	327.6,	283.3,	-43.8,	-22.0,	36	16.8,	291.6,	237.2,	-18.4,	-4.6,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK21

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-40.8,	17.3,	2	16.8,	352.2,	318.5,	-64.5,	34.1,
3	16.8,	368.3,	347.4,	-86.1,	49.9,	4	16.8,	373.3,	365.8,	-105.2,	64.2,
5	16.8,	366.9,	373.0,	-121.1,	76.5,	6	16.8,	349.3,	368.9,	-133.3,	86.5,
7	16.8,	321.2,	353.6,	-141.4,	93.9,	8	16.8,	283.3,	327.6,	-145.3,	98.4,
9	16.8,	237.2,	291.6,	-144.7,	100.2,	10	16.8,	279.9,	325.4,	-180.0,	99.1,
11	16.8,	318.5,	352.2,	-210.2,	94.8,	12	16.8,	347.4,	368.3,	-234.1,	87.5,
13	16.8,	365.8,	373.3,	-250.8,	77.7,	14	16.8,	373.0,	366.9,	-260.0,	65.4,
15	16.8,	368.9,	349.3,	-261.2,	51.2,	16	16.8,	353.6,	321.2,	-254.5,	35.4,
17	16.8,	327.6,	283.3,	-240.1,	18.5,	18	16.8,	291.6,	237.2,	-218.8,	1.1,
19	16.8,	325.4,	279.9,	-239.1,	-17.3,	20	16.8,	352.2,	318.5,	-254.0,	-34.1,
21	16.8,	368.3,	347.4,	-261.2,	-49.9,	22	16.8,	373.3,	365.8,	-260.5,	-64.2,
23	16.8,	366.9,	373.0,	-251.9,	-76.5,	24	16.8,	349.3,	368.9,	-235.6,	-86.5,
25	16.8,	321.2,	353.6,	-212.2,	-93.9,	26	16.8,	283.3,	327.6,	-182.3,	-98.4,
27	16.8,	237.2,	291.6,	-146.9,	-100.2,	28	16.8,	279.9,	325.4,	-145.4,	-99.1,
29	16.8,	318.5,	352.2,	-142.0,	-94.8,	30	16.8,	347.4,	368.3,	-134.3,	-87.5,
31	16.8,	365.8,	373.3,	-122.5,	-77.7,	32	16.8,	373.0,	366.9,	-106.9,	-65.4,
33	16.8,	368.9,	349.3,	-88.1,	-51.2,	34	16.8,	353.6,	321.2,	-66.7,	-35.4,
35	16.8,	327.6,	283.3,	-43.2,	-18.5,	36	16.8,	291.6,	237.2,	-18.4,	-1.1,

SOURCE ID: STCK22

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-41.5,	21.2,	2	16.8,	352.2,	318.5,	-65.8,	37.8,
3	16.8,	368.3,	347.4,	-88.1,	53.4,	4	16.8,	373.3,	365.8,	-107.8,	67.2,
5	16.8,	366.9,	373.0,	-124.1,	79.1,	6	16.8,	349.3,	368.9,	-136.8,	88.5,
7	16.8,	321.2,	353.6,	-145.2,	95.3,	8	16.8,	283.3,	327.6,	-149.2,	99.1,
9	16.8,	237.2,	291.6,	-148.7,	100.2,	10	16.8,	279.9,	325.4,	-183.9,	98.4,
11	16.8,	318.5,	352.2,	-214.0,	93.4,	12	16.8,	347.4,	368.3,	-237.5,	85.6,
13	16.8,	365.8,	373.3,	-253.9,	75.1,	14	16.8,	373.0,	366.9,	-262.5,	62.4,
15	16.8,	368.9,	349.3,	-263.2,	47.7,	16	16.8,	353.6,	321.2,	-255.9,	31.6,
17	16.8,	327.6,	283.3,	-240.8,	14.6,	18	16.8,	291.6,	237.2,	-218.8,	-2.9,
19	16.8,	325.4,	279.9,	-238.4,	-21.2,	20	16.8,	352.2,	318.5,	-252.7,	-37.8,
21	16.8,	368.3,	347.4,	-259.3,	-53.4,	22	16.8,	373.3,	365.8,	-258.0,	-67.2,
23	16.8,	366.9,	373.0,	-248.9,	-79.1,	24	16.8,	349.3,	368.9,	-232.2,	-88.5,
25	16.8,	321.2,	353.6,	-208.5,	-95.3,	26	16.8,	283.3,	327.6,	-178.4,	-99.1,
27	16.8,	237.2,	291.6,	-142.9,	-100.2,	28	16.8,	279.9,	325.4,	-141.5,	-98.4,
29	16.8,	318.5,	352.2,	-138.2,	-93.4,	30	16.8,	347.4,	368.3,	-130.8,	-85.6,
31	16.8,	365.8,	373.3,	-119.4,	-75.1,	32	16.8,	373.0,	366.9,	-104.3,	-62.4,
33	16.8,	368.9,	349.3,	-86.1,	-47.7,	34	16.8,	353.6,	321.2,	-65.3,	-31.6,
35	16.8,	327.6,	283.3,	-42.5,	-14.6,	36	16.8,	291.6,	237.2,	-18.4,	2.9,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK23

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-43.1,	30.3,	2	16.8,	352.2,	318.5,	-69.0,	46.5,
3	16.8,	368.3,	347.4,	-92.8,	61.4,	4	16.8,	373.3,	365.8,	-113.7,	74.3,
5	16.8,	366.9,	373.0,	-131.2,	85.0,	6	16.8,	349.3,	368.9,	-144.8,	93.2,
7	16.8,	321.2,	353.6,	-153.9,	98.4,	8	16.8,	283.3,	327.6,	-158.3,	100.7,
9	16.8,	237.2,	291.6,	-158.0,	100.2,	10	16.8,	279.9,	325.4,	-193.0,	96.8,
11	16.8,	318.5,	352.2,	-222.6,	90.2,	12	16.8,	347.4,	368.3,	-245.5,	80.9,
13	16.8,	365.8,	373.3,	-261.0,	69.1,	14	16.8,	373.0,	366.9,	-268.5,	55.3,
15	16.8,	368.9,	349.3,	-267.8,	39.7,	16	16.8,	353.6,	321.2,	-259.0,	22.9,
17	16.8,	327.6,	283.3,	-242.4,	5.5,	18	16.8,	291.6,	237.2,	-218.8,	-12.2,
19	16.8,	325.4,	279.9,	-236.8,	-30.3,	20	16.8,	352.2,	318.5,	-249.5,	-46.5,
21	16.8,	368.3,	347.4,	-254.6,	-61.4,	22	16.8,	373.3,	365.8,	-252.0,	-74.3,
23	16.8,	366.9,	373.0,	-241.8,	-85.0,	24	16.8,	349.3,	368.9,	-224.2,	-93.2,
25	16.8,	321.2,	353.6,	-199.8,	-98.4,	26	16.8,	283.3,	327.6,	-169.3,	-100.7,
27	16.8,	237.2,	291.6,	-133.7,	-100.2,	28	16.8,	279.9,	325.4,	-132.4,	-96.8,
29	16.8,	318.5,	352.2,	-129.6,	-90.2,	30	16.8,	347.4,	368.3,	-122.8,	-80.9,
31	16.8,	365.8,	373.3,	-112.3,	-69.1,	32	16.8,	373.0,	366.9,	-98.4,	-55.3,
33	16.8,	368.9,	349.3,	-81.5,	-39.7,	34	16.8,	353.6,	321.2,	-62.1,	-22.9,
35	16.8,	327.6,	283.3,	-40.9,	-5.5,	36	16.8,	291.6,	237.2,	-18.4,	12.2,

SOURCE ID: STCK24

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-43.6,	33.3,	2	16.8,	352.2,	318.5,	-70.0,	49.4,
3	16.8,	368.3,	347.4,	-94.3,	64.0,	4	16.8,	373.3,	365.8,	-115.7,	76.6,
5	16.8,	366.9,	373.0,	-133.6,	87.0,	6	16.8,	349.3,	368.9,	-147.4,	94.7,
7	16.8,	321.2,	353.6,	-156.7,	99.5,	8	16.8,	283.3,	327.6,	-161.3,	101.3,
9	16.8,	237.2,	291.6,	-161.0,	100.2,	10	16.8,	279.9,	325.4,	-196.0,	96.3,
11	16.8,	318.5,	352.2,	-225.5,	89.2,	12	16.8,	347.4,	368.3,	-248.2,	79.4,
13	16.8,	365.8,	373.3,	-263.3,	67.2,	14	16.8,	373.0,	366.9,	-270.4,	52.9,
15	16.8,	368.9,	349.3,	-269.3,	37.1,	16	16.8,	353.6,	321.2,	-260.1,	20.1,
17	16.8,	327.6,	283.3,	-242.9,	2.5,	18	16.8,	291.6,	237.2,	-218.8,	-15.2,
19	16.8,	325.4,	279.9,	-236.2,	-33.3,	20	16.8,	352.2,	318.5,	-248.5,	-49.4,
21	16.8,	368.3,	347.4,	-253.1,	-64.0,	22	16.8,	373.3,	365.8,	-250.1,	-76.6,
23	16.8,	366.9,	373.0,	-239.5,	-87.0,	24	16.8,	349.3,	368.9,	-221.6,	-94.7,
25	16.8,	321.2,	353.6,	-196.9,	-99.5,	26	16.8,	283.3,	327.6,	-166.3,	-101.3,
27	16.8,	237.2,	291.6,	-130.6,	-100.2,	28	16.8,	279.9,	325.4,	-129.4,	-96.3,
29	16.8,	318.5,	352.2,	-126.7,	-89.2,	30	16.8,	347.4,	368.3,	-120.2,	-79.4,
31	16.8,	365.8,	373.3,	-110.0,	-67.2,	32	16.8,	373.0,	366.9,	-96.5,	-52.9,
33	16.8,	368.9,	349.3,	-80.0,	-37.1,	34	16.8,	353.6,	321.2,	-61.1,	-20.1,
35	16.8,	327.6,	283.3,	-40.4,	-2.5,	36	16.8,	291.6,	237.2,	-18.4,	15.2,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK25

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-44.5,	38.0,	2	16.8,	352.2,	318.5,	-71.7,	53.9,
3	16.8,	368.3,	347.4,	-96.7,	68.1,	4	16.8,	373.3,	365.8,	-118.8,	80.3,
5	16.8,	366.9,	373.0,	-137.2,	90.1,	6	16.8,	349.3,	368.9,	-151.5,	97.1,
7	16.8,	321.2,	353.6,	-161.2,	101.1,	8	16.8,	283.3,	327.6,	-166.0,	102.1,
9	16.8,	237.2,	291.6,	-165.8,	100.2,	10	16.8,	279.9,	325.4,	-200.7,	95.5,
11	16.8,	318.5,	352.2,	-230.0,	87.6,	12	16.8,	347.4,	368.3,	-252.3,	77.0,
13	16.8,	365.8,	373.3,	-267.0,	64.1,	14	16.8,	373.0,	366.9,	-273.5,	49.3,
15	16.8,	368.9,	349.3,	-271.7,	32.9,	16	16.8,	353.6,	321.2,	-261.7,	15.6,
17	16.8,	327.6,	283.3,	-243.7,	-2.2,	18	16.8,	291.6,	237.2,	-218.8,	-20.0,
19	16.8,	325.4,	279.9,	-235.4,	-38.0,	20	16.8,	352.2,	318.5,	-246.8,	-53.9,
21	16.8,	368.3,	347.4,	-250.7,	-68.1,	22	16.8,	373.3,	365.8,	-247.0,	-80.3,
23	16.8,	366.9,	373.0,	-235.8,	-90.1,	24	16.8,	349.3,	368.9,	-217.4,	-97.1,
25	16.8,	321.2,	353.6,	-192.4,	-101.1,	26	16.8,	283.3,	327.6,	-161.6,	-102.1,
27	16.8,	237.2,	291.6,	-125.8,	-100.2,	28	16.8,	279.9,	325.4,	-124.7,	-95.5,
29	16.8,	318.5,	352.2,	-122.2,	-87.6,	30	16.8,	347.4,	368.3,	-116.0,	-77.0,
31	16.8,	365.8,	373.3,	-106.3,	-64.1,	32	16.8,	373.0,	366.9,	-93.4,	-49.3,
33	16.8,	368.9,	349.3,	-77.6,	-32.9,	34	16.8,	353.6,	321.2,	-59.5,	-15.6,
35	16.8,	327.6,	283.3,	-39.5,	2.2,	36	16.8,	291.6,	237.2,	-18.4,	20.0,

SOURCE ID: STCK26

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-45.1,	41.5,	2	16.8,	352.2,	318.5,	-72.9,	57.2,
3	16.8,	368.3,	347.4,	-98.4,	71.2,	4	16.8,	373.3,	365.8,	-121.0,	83.0,
5	16.8,	366.9,	373.0,	-139.9,	92.3,	6	16.8,	349.3,	368.9,	-154.6,	98.8,
7	16.8,	321.2,	353.6,	-164.5,	102.3,	8	16.8,	283.3,	327.6,	-169.5,	102.7,
9	16.8,	237.2,	291.6,	-169.3,	100.2,	10	16.8,	279.9,	325.4,	-204.1,	94.9,
11	16.8,	318.5,	352.2,	-233.3,	86.4,	12	16.8,	347.4,	368.3,	-255.4,	75.3,
13	16.8,	365.8,	373.3,	-269.7,	61.9,	14	16.8,	373.0,	366.9,	-275.8,	46.6,
15	16.8,	368.9,	349.3,	-273.5,	29.9,	16	16.8,	353.6,	321.2,	-262.9,	12.3,
17	16.8,	327.6,	283.3,	-244.3,	-5.7,	18	16.8,	291.6,	237.2,	-218.8,	-23.5,
19	16.8,	325.4,	279.9,	-234.8,	-41.5,	20	16.8,	352.2,	318.5,	-245.6,	-57.2,
21	16.8,	368.3,	347.4,	-249.0,	-71.2,	22	16.8,	373.3,	365.8,	-244.8,	-83.0,
23	16.8,	366.9,	373.0,	-233.1,	-92.3,	24	16.8,	349.3,	368.9,	-214.4,	-98.8,
25	16.8,	321.2,	353.6,	-189.1,	-102.3,	26	16.8,	283.3,	327.6,	-158.1,	-102.7,
27	16.8,	237.2,	291.6,	-122.3,	-100.2,	28	16.8,	279.9,	325.4,	-121.2,	-94.9,
29	16.8,	318.5,	352.2,	-118.9,	-86.4,	30	16.8,	347.4,	368.3,	-113.0,	-75.3,
31	16.8,	365.8,	373.3,	-103.6,	-61.9,	32	16.8,	373.0,	366.9,	-91.1,	-46.6,
33	16.8,	368.9,	349.3,	-75.8,	-29.9,	34	16.8,	353.6,	321.2,	-58.3,	-12.3,
35	16.8,	327.6,	283.3,	-38.9,	5.7,	36	16.8,	291.6,	237.2,	-18.4,	23.5,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK27

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-45.7,	45.1,	2	16.8,	352.2,	318.5,	-74.1,	60.6,
3	16.8,	368.3,	347.4,	-100.3,	74.3,	4	16.8,	373.3,	365.8,	-123.4,	85.8,
5	16.8,	366.9,	373.0,	-142.7,	94.7,	6	16.8,	349.3,	368.9,	-157.7,	100.6,
7	16.8,	321.2,	353.6,	-168.0,	103.6,	8	16.8,	283.3,	327.6,	-173.1,	103.3,
9	16.8,	237.2,	291.6,	-173.0,	100.2,	10	16.8,	279.9,	325.4,	-207.8,	94.2,
11	16.8,	318.5,	352.2,	-236.7,	85.1,	12	16.8,	347.4,	368.3,	-258.5,	73.4,
13	16.8,	365.8,	373.3,	-272.5,	59.5,	14	16.8,	373.0,	366.9,	-278.1,	43.8,
15	16.8,	368.9,	349.3,	-275.3,	26.7,	16	16.8,	353.6,	321.2,	-264.2,	8.9,
17	16.8,	327.6,	283.3,	-245.0,	-9.3,	18	16.8,	291.6,	237.2,	-218.8,	-27.2,
19	16.8,	325.4,	279.9,	-234.2,	-45.1,	20	16.8,	352.2,	318.5,	-244.4,	-60.6,
21	16.8,	368.3,	347.4,	-247.1,	-74.3,	22	16.8,	373.3,	365.8,	-242.4,	-85.8,
23	16.8,	366.9,	373.0,	-230.3,	-94.7,	24	16.8,	349.3,	368.9,	-211.2,	-100.6,
25	16.8,	321.2,	353.6,	-185.7,	-103.6,	26	16.8,	283.3,	327.6,	-154.5,	-103.3,
27	16.8,	237.2,	291.6,	-118.7,	-100.2,	28	16.8,	279.9,	325.4,	-117.6,	-94.2,
29	16.8,	318.5,	352.2,	-115.5,	-85.1,	30	16.8,	347.4,	368.3,	-109.8,	-73.4,
31	16.8,	365.8,	373.3,	-100.8,	-59.5,	32	16.8,	373.0,	366.9,	-88.8,	-43.8,
33	16.8,	368.9,	349.3,	-74.0,	-26.7,	34	16.8,	353.6,	321.2,	-57.0,	-8.9,
35	16.8,	327.6,	283.3,	-38.3,	9.3,	36	16.8,	291.6,	237.2,	-18.4,	27.2,

SOURCE ID: STCK28

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-46.5,	49.5,	2	16.8,	352.2,	318.5,	-75.6,	64.8,
3	16.8,	368.3,	347.4,	-102.5,	78.2,	4	16.8,	373.3,	365.8,	-126.2,	89.2,
5	16.8,	366.9,	373.0,	-146.1,	97.5,	6	16.8,	349.3,	368.9,	-161.6,	102.9,
7	16.8,	321.2,	353.6,	-172.2,	105.1,	8	16.8,	283.3,	327.6,	-177.5,	104.1,
9	16.8,	237.2,	291.6,	-177.4,	100.2,	10	16.8,	279.9,	325.4,	-212.2,	93.5,
11	16.8,	318.5,	352.2,	-240.9,	83.6,	12	16.8,	347.4,	368.3,	-262.4,	71.2,
13	16.8,	365.8,	373.3,	-275.9,	56.6,	14	16.8,	373.0,	366.9,	-281.0,	40.4,
15	16.8,	368.9,	349.3,	-277.6,	22.9,	16	16.8,	353.6,	321.2,	-265.7,	4.6,
17	16.8,	327.6,	283.3,	-245.8,	-13.7,	18	16.8,	291.6,	237.2,	-218.8,	-31.6,
19	16.8,	325.4,	279.9,	-233.4,	-49.5,	20	16.8,	352.2,	318.5,	-242.8,	-64.8,
21	16.8,	368.3,	347.4,	-244.9,	-78.2,	22	16.8,	373.3,	365.8,	-239.5,	-89.2,
23	16.8,	366.9,	373.0,	-226.9,	-97.5,	24	16.8,	349.3,	368.9,	-207.3,	-102.9,
25	16.8,	321.2,	353.6,	-181.5,	-105.1,	26	16.8,	283.3,	327.6,	-150.1,	-104.1,
27	16.8,	237.2,	291.6,	-114.2,	-100.2,	28	16.8,	279.9,	325.4,	-113.2,	-93.5,
29	16.8,	318.5,	352.2,	-111.3,	-83.6,	30	16.8,	347.4,	368.3,	-106.0,	-71.2,
31	16.8,	365.8,	373.3,	-97.4,	-56.6,	32	16.8,	373.0,	366.9,	-85.9,	-40.4,
33	16.8,	368.9,	349.3,	-71.8,	-22.9,	34	16.8,	353.6,	321.2,	-55.5,	-4.6,
35	16.8,	327.6,	283.3,	-37.5,	13.7,	36	16.8,	291.6,	237.2,	-18.4,	31.6,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK29

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-47.6,	56.1,	2	16.8,	352.2,	318.5,	-77.9,	71.1,
3	16.8,	368.3,	347.4,	-105.8,	84.0,	4	16.8,	373.3,	365.8,	-130.6,	94.4,
5	16.8,	366.9,	373.0,	-151.3,	101.8,	6	16.8,	349.3,	368.9,	-167.4,	106.2,
7	16.8,	321.2,	353.6,	-178.5,	107.4,	8	16.8,	283.3,	327.6,	-184.1,	105.3,
9	16.8,	237.2,	291.6,	-184.1,	100.2,	10	16.8,	279.9,	325.4,	-218.8,	92.3,
11	16.8,	318.5,	352.2,	-247.2,	81.3,	12	16.8,	347.4,	368.3,	-268.2,	67.8,
13	16.8,	365.8,	373.3,	-281.0,	52.3,	14	16.8,	373.0,	366.9,	-285.3,	35.2,
15	16.8,	368.9,	349.3,	-280.9,	17.1,	16	16.8,	353.6,	321.2,	-268.0,	-1.6,
17	16.8,	327.6,	283.3,	-246.9,	-20.3,	18	16.8,	291.6,	237.2,	-218.8,	-38.3,
19	16.8,	325.4,	279.9,	-232.2,	-56.1,	20	16.8,	352.2,	318.5,	-240.6,	-71.1,
21	16.8,	368.3,	347.4,	-241.6,	-84.0,	22	16.8,	373.3,	365.8,	-235.2,	-94.4,
23	16.8,	366.9,	373.0,	-221.7,	-101.8,	24	16.8,	349.3,	368.9,	-201.5,	-106.2,
25	16.8,	321.2,	353.6,	-175.2,	-107.4,	26	16.8,	283.3,	327.6,	-143.5,	-105.3,
27	16.8,	237.2,	291.6,	-107.5,	-100.2,	28	16.8,	279.9,	325.4,	-106.6,	-92.3,
29	16.8,	318.5,	352.2,	-105.0,	-81.3,	30	16.8,	347.4,	368.3,	-100.1,	-67.8,
31	16.8,	365.8,	373.3,	-92.3,	-52.3,	32	16.8,	373.0,	366.9,	-81.6,	-35.2,
33	16.8,	368.9,	349.3,	-68.4,	-17.1,	34	16.8,	353.6,	321.2,	-53.2,	1.6,
35	16.8,	327.6,	283.3,	-36.3,	20.3,	36	16.8,	291.6,	237.2,	-18.4,	38.3,

SOURCE ID: STCK30

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-49.0,	63.6,	2	16.8,	352.2,	318.5,	-80.5,	78.3,
3	16.8,	368.3,	347.4,	-109.7,	90.6,	4	16.8,	373.3,	365.8,	-135.5,	100.2,
5	16.8,	366.9,	373.0,	-157.1,	106.8,	6	16.8,	349.3,	368.9,	-174.0,	110.1,
7	16.8,	321.2,	353.6,	-185.7,	110.0,	8	16.8,	283.3,	327.6,	-191.6,	106.6,
9	16.8,	237.2,	291.6,	-191.8,	100.2,	10	16.8,	279.9,	325.4,	-226.3,	91.0,
11	16.8,	318.5,	352.2,	-254.4,	78.7,	12	16.8,	347.4,	368.3,	-274.8,	64.0,
13	16.8,	365.8,	373.3,	-286.9,	47.4,	14	16.8,	373.0,	366.9,	-290.2,	29.4,
15	16.8,	368.9,	349.3,	-284.7,	10.4,	16	16.8,	353.6,	321.2,	-270.6,	-8.8,
17	16.8,	327.6,	283.3,	-248.2,	-27.8,	18	16.8,	291.6,	237.2,	-218.8,	-46.0,
19	16.8,	325.4,	279.9,	-230.9,	-63.6,	20	16.8,	352.2,	318.5,	-237.9,	-78.3,
21	16.8,	368.3,	347.4,	-237.7,	-90.6,	22	16.8,	373.3,	365.8,	-230.3,	-100.2,
23	16.8,	366.9,	373.0,	-215.9,	-106.8,	24	16.8,	349.3,	368.9,	-194.9,	-110.1,
25	16.8,	321.2,	353.6,	-168.0,	-110.0,	26	16.8,	283.3,	327.6,	-136.0,	-106.6,
27	16.8,	237.2,	291.6,	-99.8,	-100.2,	28	16.8,	279.9,	325.4,	-99.1,	-91.0,
29	16.8,	318.5,	352.2,	-97.8,	-78.7,	30	16.8,	347.4,	368.3,	-93.5,	-64.0,
31	16.8,	365.8,	373.3,	-86.4,	-47.4,	32	16.8,	373.0,	366.9,	-76.7,	-29.4,
33	16.8,	368.9,	349.3,	-64.6,	-10.4,	34	16.8,	353.6,	321.2,	-50.6,	8.8,
35	16.8,	327.6,	283.3,	-35.0,	27.8,	36	16.8,	291.6,	237.2,	-18.4,	46.0,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK31

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-49.7,	67.5,	2	16.8,	352.2,	318.5,	-81.9,	82.1,
3	16.8,	368.3,	347.4,	-111.7,	94.1,	4	16.8,	373.3,	365.8,	-138.0,	103.3,
5	16.8,	366.9,	373.0,	-160.2,	109.3,	6	16.8,	349.3,	368.9,	-177.5,	112.1,
7	16.8,	321.2,	353.6,	-189.4,	111.4,	8	16.8,	283.3,	327.6,	-195.6,	107.3,
9	16.8,	237.2,	291.6,	-195.8,	100.2,	10	16.8,	279.9,	325.4,	-230.2,	90.3,
11	16.8,	318.5,	352.2,	-258.2,	77.3,	12	16.8,	347.4,	368.3,	-278.3,	62.0,
13	16.8,	365.8,	373.3,	-289.9,	44.8,	14	16.8,	373.0,	366.9,	-292.8,	26.3,
15	16.8,	368.9,	349.3,	-286.7,	7.0,	16	16.8,	353.6,	321.2,	-272.0,	-12.6,
17	16.8,	327.6,	283.3,	-248.9,	-31.8,	18	16.8,	291.6,	237.2,	-218.8,	-50.0,
19	16.8,	325.4,	279.9,	-230.2,	-67.5,	20	16.8,	352.2,	318.5,	-236.6,	-82.1,
21	16.8,	368.3,	347.4,	-235.7,	-94.1,	22	16.8,	373.3,	365.8,	-227.7,	-103.3,
23	16.8,	366.9,	373.0,	-212.8,	-109.3,	24	16.8,	349.3,	368.9,	-191.4,	-112.1,
25	16.8,	321.2,	353.6,	-164.2,	-111.4,	26	16.8,	283.3,	327.6,	-132.1,	-107.3,
27	16.8,	237.2,	291.6,	-95.8,	-100.2,	28	16.8,	279.9,	325.4,	-95.1,	-90.3,
29	16.8,	318.5,	352.2,	-94.0,	-77.3,	30	16.8,	347.4,	368.3,	-90.1,	-62.0,
31	16.8,	365.8,	373.3,	-83.3,	-44.8,	32	16.8,	373.0,	366.9,	-74.1,	-26.3,
33	16.8,	368.9,	349.3,	-62.6,	-7.0,	34	16.8,	353.6,	321.2,	-49.2,	12.6,
35	16.8,	327.6,	283.3,	-34.3,	31.8,	36	16.8,	291.6,	237.2,	-18.4,	50.0,

SOURCE ID: STCK32

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-50.4,	71.8,	2	16.8,	352.2,	318.5,	-83.4,	86.1,
3	16.8,	368.3,	347.4,	-113.8,	97.8,	4	16.8,	373.3,	365.8,	-140.8,	106.6,
5	16.8,	366.9,	373.0,	-163.5,	112.1,	6	16.8,	349.3,	368.9,	-181.2,	114.2,
7	16.8,	321.2,	353.6,	-193.5,	112.8,	8	16.8,	283.3,	327.6,	-199.8,	108.1,
9	16.8,	237.2,	291.6,	-200.1,	100.2,	10	16.8,	279.9,	325.4,	-234.5,	89.5,
11	16.8,	318.5,	352.2,	-262.2,	75.8,	12	16.8,	347.4,	368.3,	-282.0,	59.9,
13	16.8,	365.8,	373.3,	-293.2,	42.1,	14	16.8,	373.0,	366.9,	-295.6,	23.0,
15	16.8,	368.9,	349.3,	-288.9,	3.2,	16	16.8,	353.6,	321.2,	-273.4,	-16.6,
17	16.8,	327.6,	283.3,	-249.7,	-36.0,	18	16.8,	291.6,	237.2,	-218.8,	-54.3,
19	16.8,	325.4,	279.9,	-229.5,	-71.8,	20	16.8,	352.2,	318.5,	-235.1,	-86.1,
21	16.8,	368.3,	347.4,	-233.6,	-97.8,	22	16.8,	373.3,	365.8,	-225.0,	-106.6,
23	16.8,	366.9,	373.0,	-209.5,	-112.1,	24	16.8,	349.3,	368.9,	-187.7,	-114.2,
25	16.8,	321.2,	353.6,	-160.2,	-112.8,	26	16.8,	283.3,	327.6,	-127.8,	-108.1,
27	16.8,	237.2,	291.6,	-91.5,	-100.2,	28	16.8,	279.9,	325.4,	-90.9,	-89.5,
29	16.8,	318.5,	352.2,	-90.0,	-75.8,	30	16.8,	347.4,	368.3,	-86.3,	-59.9,
31	16.8,	365.8,	373.3,	-80.0,	-42.1,	32	16.8,	373.0,	366.9,	-71.3,	-23.0,
33	16.8,	368.9,	349.3,	-60.5,	-3.2,	34	16.8,	353.6,	321.2,	-47.7,	16.6,
35	16.8,	327.6,	283.3,	-33.6,	36.0,	36	16.8,	291.6,	237.2,	-18.4,	54.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK33

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-51.1,	75.8,	2	16.8,	352.2,	318.5,	-84.8,	90.0,
3	16.8,	368.3,	347.4,	-115.9,	101.4,	4	16.8,	373.3,	365.8,	-143.5,	109.8,
5	16.8,	366.9,	373.0,	-166.7,	114.8,	6	16.8,	349.3,	368.9,	-184.8,	116.3,
7	16.8,	321.2,	353.6,	-197.3,	114.3,	8	16.8,	283.3,	327.6,	-203.9,	108.8,
9	16.8,	237.2,	291.6,	-204.2,	100.2,	10	16.8,	279.9,	325.4,	-238.5,	88.8,
11	16.8,	318.5,	352.2,	-266.1,	74.4,	12	16.8,	347.4,	368.3,	-285.6,	57.8,
13	16.8,	365.8,	373.3,	-296.4,	39.4,	14	16.8,	373.0,	366.9,	-298.2,	19.8,
15	16.8,	368.9,	349.3,	-290.9,	-0.4,	16	16.8,	353.6,	321.2,	-274.9,	-20.5,
17	16.8,	327.6,	283.3,	-250.4,	-40.1,	18	16.8,	291.6,	237.2,	-218.8,	-58.4,
19	16.8,	325.4,	279.9,	-228.7,	-75.8,	20	16.8,	352.2,	318.5,	-233.7,	-90.0,
21	16.8,	368.3,	347.4,	-231.5,	-101.4,	22	16.8,	373.3,	365.8,	-222.3,	-109.8,
23	16.8,	366.9,	373.0,	-206.4,	-114.8,	24	16.8,	349.3,	368.9,	-184.1,	-116.3,
25	16.8,	321.2,	353.6,	-156.3,	-114.3,	26	16.8,	283.3,	327.6,	-123.7,	-108.8,
27	16.8,	237.2,	291.6,	-87.4,	-100.2,	28	16.8,	279.9,	325.4,	-86.8,	-88.8,
29	16.8,	318.5,	352.2,	-86.1,	-74.4,	30	16.8,	347.4,	368.3,	-82.8,	-57.8,
31	16.8,	365.8,	373.3,	-76.9,	-39.4,	32	16.8,	373.0,	366.9,	-68.7,	-19.8,
33	16.8,	368.9,	349.3,	-58.4,	0.4,	34	16.8,	353.6,	321.2,	-46.3,	20.5,
35	16.8,	327.6,	283.3,	-32.9,	40.1,	36	16.8,	291.6,	237.2,	-18.4,	58.4,

SOURCE ID: STCK34

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-51.8,	79.8,	2	16.8,	352.2,	318.5,	-86.2,	93.8,
3	16.8,	368.3,	347.4,	-117.9,	104.9,	4	16.8,	373.3,	365.8,	-146.0,	112.8,
5	16.8,	366.9,	373.0,	-169.7,	117.3,	6	16.8,	349.3,	368.9,	-188.3,	118.3,
7	16.8,	321.2,	353.6,	-201.1,	115.6,	8	16.8,	283.3,	327.6,	-207.8,	109.5,
9	16.8,	237.2,	291.6,	-208.2,	100.2,	10	16.8,	279.9,	325.4,	-242.5,	88.1,
11	16.8,	318.5,	352.2,	-269.9,	73.1,	12	16.8,	347.4,	368.3,	-289.1,	55.8,
13	16.8,	365.8,	373.3,	-299.5,	36.9,	14	16.8,	373.0,	366.9,	-300.8,	16.8,
15	16.8,	368.9,	349.3,	-292.9,	-3.8,	16	16.8,	353.6,	321.2,	-276.2,	-24.3,
17	16.8,	327.6,	283.3,	-251.1,	-44.0,	18	16.8,	291.6,	237.2,	-218.8,	-62.4,
19	16.8,	325.4,	279.9,	-228.1,	-79.8,	20	16.8,	352.2,	318.5,	-232.3,	-93.8,
21	16.8,	368.3,	347.4,	-229.5,	-104.9,	22	16.8,	373.3,	365.8,	-219.7,	-112.8,
23	16.8,	366.9,	373.0,	-203.3,	-117.3,	24	16.8,	349.3,	368.9,	-180.7,	-118.3,
25	16.8,	321.2,	353.6,	-152.6,	-115.6,	26	16.8,	283.3,	327.6,	-119.8,	-109.5,
27	16.8,	237.2,	291.6,	-83.4,	-100.2,	28	16.8,	279.9,	325.4,	-82.9,	-88.1,
29	16.8,	318.5,	352.2,	-82.3,	-73.1,	30	16.8,	347.4,	368.3,	-79.3,	-55.8,
31	16.8,	365.8,	373.3,	-73.8,	-36.9,	32	16.8,	373.0,	366.9,	-66.1,	-16.8,
33	16.8,	368.9,	349.3,	-56.4,	3.8,	34	16.8,	353.6,	321.2,	-45.0,	24.3,
35	16.8,	327.6,	283.3,	-32.2,	44.0,	36	16.8,	291.6,	237.2,	-18.4,	62.4,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK35

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-52.7,	84.5,	2	16.8,	352.2,	318.5,	-87.8,	98.2,
3	16.8,	368.3,	347.4,	-120.3,	109.0,	4	16.8,	373.3,	365.8,	-149.1,	116.5,
5	16.8,	366.9,	373.0,	-173.4,	120.4,	6	16.8,	349.3,	368.9,	-192.4,	120.7,
7	16.8,	321.2,	353.6,	-205.6,	117.3,	8	16.8,	283.3,	327.6,	-212.5,	110.3,
9	16.8,	237.2,	291.6,	-213.0,	100.2,	10	16.8,	279.9,	325.4,	-247.2,	87.3,
11	16.8,	318.5,	352.2,	-274.4,	71.4,	12	16.8,	347.4,	368.3,	-293.2,	53.4,
13	16.8,	365.8,	373.3,	-303.1,	33.8,	14	16.8,	373.0,	366.9,	-303.9,	13.1,
15	16.8,	368.9,	349.3,	-295.3,	-8.0,	16	16.8,	353.6,	321.2,	-277.9,	-28.8,
17	16.8,	327.6,	283.3,	-251.9,	-48.7,	18	16.8,	291.6,	237.2,	-218.8,	-67.2,
19	16.8,	325.4,	279.9,	-227.2,	-84.5,	20	16.8,	352.2,	318.5,	-230.7,	-98.2,
21	16.8,	368.3,	347.4,	-227.1,	-109.0,	22	16.8,	373.3,	365.8,	-216.7,	-116.5,
23	16.8,	366.9,	373.0,	-199.6,	-120.4,	24	16.8,	349.3,	368.9,	-176.5,	-120.7,
25	16.8,	321.2,	353.6,	-148.1,	-117.3,	26	16.8,	283.3,	327.6,	-115.1,	-110.3,
27	16.8,	237.2,	291.6,	-78.6,	-100.2,	28	16.8,	279.9,	325.4,	-78.2,	-87.3,
29	16.8,	318.5,	352.2,	-77.8,	-71.4,	30	16.8,	347.4,	368.3,	-75.1,	-53.4,
31	16.8,	365.8,	373.3,	-70.2,	-33.8,	32	16.8,	373.0,	366.9,	-63.0,	-13.1,
33	16.8,	368.9,	349.3,	-54.0,	8.0,	34	16.8,	353.6,	321.2,	-43.3,	28.8,
35	16.8,	327.6,	283.3,	-31.3,	48.7,	36	16.8,	291.6,	237.2,	-18.4,	67.2,

SOURCE ID: STCK36

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-53.4,	88.7,	2	16.8,	352.2,	318.5,	-89.3,	102.3,
3	16.8,	368.3,	347.4,	-122.4,	112.8,	4	16.8,	373.3,	365.8,	-151.9,	119.8,
5	16.8,	366.9,	373.0,	-176.7,	123.2,	6	16.8,	349.3,	368.9,	-196.1,	122.8,
7	16.8,	321.2,	353.6,	-209.6,	118.7,	8	16.8,	283.3,	327.6,	-216.8,	111.0,
9	16.8,	237.2,	291.6,	-217.3,	100.2,	10	16.8,	279.9,	325.4,	-251.4,	86.5,
11	16.8,	318.5,	352.2,	-278.4,	70.0,	12	16.8,	347.4,	368.3,	-296.9,	51.3,
13	16.8,	365.8,	373.3,	-306.4,	31.0,	14	16.8,	373.0,	366.9,	-306.6,	9.8,
15	16.8,	368.9,	349.3,	-297.5,	-11.7,	16	16.8,	353.6,	321.2,	-279.3,	-32.8,
17	16.8,	327.6,	283.3,	-252.7,	-52.9,	18	16.8,	291.6,	237.2,	-218.8,	-71.5,
19	16.8,	325.4,	279.9,	-226.5,	-88.7,	20	16.8,	352.2,	318.5,	-229.2,	-102.3,
21	16.8,	368.3,	347.4,	-225.0,	-112.8,	22	16.8,	373.3,	365.8,	-213.9,	-119.8,
23	16.8,	366.9,	373.0,	-196.3,	-123.2,	24	16.8,	349.3,	368.9,	-172.8,	-122.8,
25	16.8,	321.2,	353.6,	-144.0,	-118.7,	26	16.8,	283.3,	327.6,	-110.8,	-111.0,
27	16.8,	237.2,	291.6,	-74.3,	-100.2,	28	16.8,	279.9,	325.4,	-74.0,	-86.5,
29	16.8,	318.5,	352.2,	-73.8,	-70.0,	30	16.8,	347.4,	368.3,	-71.4,	-51.3,
31	16.8,	365.8,	373.3,	-66.9,	-31.0,	32	16.8,	373.0,	366.9,	-60.3,	-9.8,
33	16.8,	368.9,	349.3,	-51.8,	11.7,	34	16.8,	353.6,	321.2,	-41.9,	32.8,
35	16.8,	327.6,	283.3,	-30.6,	52.9,	36	16.8,	291.6,	237.2,	-18.4,	71.5,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK37

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-55.0,	97.5,	2	16.8,	352.2,	318.5,	-92.3,	110.7,
3	16.8,	368.3,	347.4,	-126.9,	120.5,	4	16.8,	373.3,	365.8,	-157.6,	126.6,
5	16.8,	366.9,	373.0,	-183.5,	128.9,	6	16.8,	349.3,	368.9,	-203.9,	127.3,
7	16.8,	321.2,	353.6,	-218.0,	121.8,	8	16.8,	283.3,	327.6,	-225.6,	112.6,
9	16.8,	237.2,	291.6,	-226.2,	100.2,	10	16.8,	279.9,	325.4,	-260.2,	85.0,
11	16.8,	318.5,	352.2,	-286.8,	66.9,	12	16.8,	347.4,	368.3,	-304.7,	46.8,
13	16.8,	365.8,	373.3,	-313.3,	25.3,	14	16.8,	373.0,	366.9,	-312.4,	3.0,
15	16.8,	368.9,	349.3,	-302.0,	-19.4,	16	16.8,	353.6,	321.2,	-282.4,	-41.2,
17	16.8,	327.6,	283.3,	-254.2,	-61.8,	18	16.8,	291.6,	237.2,	-218.8,	-80.4,
19	16.8,	325.4,	279.9,	-224.9,	-97.5,	20	16.8,	352.2,	318.5,	-226.1,	-110.7,
21	16.8,	368.3,	347.4,	-220.5,	-120.5,	22	16.8,	373.3,	365.8,	-208.2,	-126.6,
23	16.8,	366.9,	373.0,	-189.5,	-128.9,	24	16.8,	349.3,	368.9,	-165.1,	-127.3,
25	16.8,	321.2,	353.6,	-135.6,	-121.8,	26	16.8,	283.3,	327.6,	-102.0,	-112.6,
27	16.8,	237.2,	291.6,	-65.4,	-100.2,	28	16.8,	279.9,	325.4,	-65.1,	-85.0,
29	16.8,	318.5,	352.2,	-65.4,	-66.9,	30	16.8,	347.4,	368.3,	-63.7,	-46.8,
31	16.8,	365.8,	373.3,	-60.0,	-25.3,	32	16.8,	373.0,	366.9,	-54.5,	-3.0,
33	16.8,	368.9,	349.3,	-47.4,	19.4,	34	16.8,	353.6,	321.2,	-38.8,	41.2,
35	16.8,	327.6,	283.3,	-29.0,	61.8,	36	16.8,	291.6,	237.2,	-18.4,	80.4,

SOURCE ID: STCK38

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-55.6,	101.5,	2	16.8,	352.2,	318.5,	-93.7,	114.4,
3	16.8,	368.3,	347.4,	-128.9,	123.9,	4	16.8,	373.3,	365.8,	-160.2,	129.7,
5	16.8,	366.9,	373.0,	-186.6,	131.5,	6	16.8,	349.3,	368.9,	-207.3,	129.3,
7	16.8,	321.2,	353.6,	-221.8,	123.2,	8	16.8,	283.3,	327.6,	-229.5,	113.3,
9	16.8,	237.2,	291.6,	-230.2,	100.2,	10	16.8,	279.9,	325.4,	-264.1,	84.3,
11	16.8,	318.5,	352.2,	-290.5,	65.5,	12	16.8,	347.4,	368.3,	-308.1,	44.8,
13	16.8,	365.8,	373.3,	-316.3,	22.7,	14	16.8,	373.0,	366.9,	-314.9,	-0.1,
15	16.8,	368.9,	349.3,	-303.9,	-22.9,	16	16.8,	353.6,	321.2,	-283.8,	-44.9,
17	16.8,	327.6,	283.3,	-254.9,	-65.7,	18	16.8,	291.6,	237.2,	-218.8,	-84.4,
19	16.8,	325.4,	279.9,	-224.2,	-101.5,	20	16.8,	352.2,	318.5,	-224.8,	-114.4,
21	16.8,	368.3,	347.4,	-218.5,	-123.9,	22	16.8,	373.3,	365.8,	-205.6,	-129.7,
23	16.8,	366.9,	373.0,	-186.4,	-131.5,	24	16.8,	349.3,	368.9,	-161.6,	-129.3,
25	16.8,	321.2,	353.6,	-131.9,	-123.2,	26	16.8,	283.3,	327.6,	-98.1,	-113.3,
27	16.8,	237.2,	291.6,	-61.4,	-100.2,	28	16.8,	279.9,	325.4,	-61.2,	-84.3,
29	16.8,	318.5,	352.2,	-61.7,	-65.5,	30	16.8,	347.4,	368.3,	-60.2,	-44.8,
31	16.8,	365.8,	373.3,	-57.0,	-22.7,	32	16.8,	373.0,	366.9,	-52.0,	0.1,
33	16.8,	368.9,	349.3,	-45.4,	22.9,	34	16.8,	353.6,	321.2,	-37.4,	44.9,
35	16.8,	327.6,	283.3,	-28.3,	65.7,	36	16.8,	291.6,	237.2,	-18.4,	84.4,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK39

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-56.4,	105.7,	2	16.8,	352.2,	318.5,	-95.2,	118.5,
3	16.8,	368.3,	347.4,	-131.1,	127.7,	4	16.8,	373.3,	365.8,	-162.9,	133.0,
5	16.8,	366.9,	373.0,	-189.9,	134.2,	6	16.8,	349.3,	368.9,	-211.1,	131.4,
7	16.8,	321.2,	353.6,	-225.8,	124.6,	8	16.8,	283.3,	327.6,	-233.7,	114.0,
9	16.8,	237.2,	291.6,	-234.5,	100.2,	10	16.8,	279.9,	325.4,	-268.4,	83.5,
11	16.8,	318.5,	352.2,	-294.6,	64.1,	12	16.8,	347.4,	368.3,	-311.8,	42.6,
13	16.8,	365.8,	373.3,	-319.6,	19.9,	14	16.8,	373.0,	366.9,	-317.7,	-3.4,
15	16.8,	368.9,	349.3,	-306.1,	-26.6,	16	16.8,	353.6,	321.2,	-285.2,	-49.0,
17	16.8,	327.6,	283.3,	-255.7,	-69.9,	18	16.8,	291.6,	237.2,	-218.8,	-88.7,
19	16.8,	325.4,	279.9,	-223.5,	-105.7,	20	16.8,	352.2,	318.5,	-223.3,	-118.5,
21	16.8,	368.3,	347.4,	-216.4,	-127.7,	22	16.8,	373.3,	365.8,	-202.8,	-133.0,
23	16.8,	366.9,	373.0,	-183.1,	-134.2,	24	16.8,	349.3,	368.9,	-157.9,	-131.4,
25	16.8,	321.2,	353.6,	-127.8,	-124.6,	26	16.8,	283.3,	327.6,	-93.9,	-114.0,
27	16.8,	237.2,	291.6,	-57.1,	-100.2,	28	16.8,	279.9,	325.4,	-57.0,	-83.5,
29	16.8,	318.5,	352.2,	-57.6,	-64.1,	30	16.8,	347.4,	368.3,	-56.5,	-42.6,
31	16.8,	365.8,	373.3,	-53.7,	-19.9,	32	16.8,	373.0,	366.9,	-49.2,	3.4,
33	16.8,	368.9,	349.3,	-43.2,	26.6,	34	16.8,	353.6,	321.2,	-36.0,	49.0,
35	16.8,	327.6,	283.3,	-27.6,	69.9,	36	16.8,	291.6,	237.2,	-18.4,	88.7,

SOURCE ID: STCK40

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-57.2,	110.4,	2	16.8,	352.2,	318.5,	-96.8,	123.0,
3	16.8,	368.3,	347.4,	-133.4,	131.8,	4	16.8,	373.3,	365.8,	-166.0,	136.6,
5	16.8,	366.9,	373.0,	-193.6,	137.3,	6	16.8,	349.3,	368.9,	-215.2,	133.8,
7	16.8,	321.2,	353.6,	-230.3,	126.3,	8	16.8,	283.3,	327.6,	-238.4,	114.9,
9	16.8,	237.2,	291.6,	-239.3,	100.2,	10	16.8,	279.9,	325.4,	-273.1,	82.7,
11	16.8,	318.5,	352.2,	-299.1,	62.4,	12	16.8,	347.4,	368.3,	-316.0,	40.3,
13	16.8,	365.8,	373.3,	-323.3,	16.9,	14	16.8,	373.0,	366.9,	-320.8,	-7.0,
15	16.8,	368.9,	349.3,	-308.5,	-30.7,	16	16.8,	353.6,	321.2,	-286.9,	-53.5,
17	16.8,	327.6,	283.3,	-256.5,	-74.6,	18	16.8,	291.6,	237.2,	-218.8,	-93.5,
19	16.8,	325.4,	279.9,	-222.7,	-110.4,	20	16.8,	352.2,	318.5,	-221.7,	-123.0,
21	16.8,	368.3,	347.4,	-214.0,	-131.8,	22	16.8,	373.3,	365.8,	-199.8,	-136.6,
23	16.8,	366.9,	373.0,	-179.5,	-137.3,	24	16.8,	349.3,	368.9,	-153.7,	-133.8,
25	16.8,	321.2,	353.6,	-123.3,	-126.3,	26	16.8,	283.3,	327.6,	-89.2,	-114.9,
27	16.8,	237.2,	291.6,	-52.3,	-100.2,	28	16.8,	279.9,	325.4,	-52.3,	-82.7,
29	16.8,	318.5,	352.2,	-53.1,	-62.4,	30	16.8,	347.4,	368.3,	-52.4,	-40.3,
31	16.8,	365.8,	373.3,	-50.0,	-16.9,	32	16.8,	373.0,	366.9,	-46.1,	7.0,
33	16.8,	368.9,	349.3,	-40.8,	30.7,	34	16.8,	353.6,	321.2,	-34.3,	53.5,
35	16.8,	327.6,	283.3,	-26.8,	74.6,	36	16.8,	291.6,	237.2,	-18.4,	93.5,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK41

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-57.9,	114.5,	2	16.8,	352.2,	318.5,	-98.2,	126.9,
3	16.8,	368.3,	347.4,	-135.5,	135.4,	4	16.8,	373.3,	365.8,	-168.7,	139.8,
5	16.8,	366.9,	373.0,	-196.7,	140.0,	6	16.8,	349.3,	368.9,	-218.8,	135.9,
7	16.8,	321.2,	353.6,	-234.2,	127.7,	8	16.8,	283.3,	327.6,	-242.5,	115.6,
9	16.8,	237.2,	291.6,	-243.5,	100.2,	10	16.8,	279.9,	325.4,	-277.2,	82.0,
11	16.8,	318.5,	352.2,	-303.0,	61.0,	12	16.8,	347.4,	368.3,	-319.6,	38.2,
13	16.8,	365.8,	373.3,	-326.5,	14.2,	14	16.8,	373.0,	366.9,	-323.4,	-10.2,
15	16.8,	368.9,	349.3,	-310.6,	-34.3,	16	16.8,	353.6,	321.2,	-288.3,	-57.4,
17	16.8,	327.6,	283.3,	-257.2,	-78.7,	18	16.8,	291.6,	237.2,	-218.8,	-97.6,
19	16.8,	325.4,	279.9,	-221.9,	-114.5,	20	16.8,	352.2,	318.5,	-220.2,	-126.9,
21	16.8,	368.3,	347.4,	-211.9,	-135.4,	22	16.8,	373.3,	365.8,	-197.1,	-139.8,
23	16.8,	366.9,	373.0,	-176.3,	-140.0,	24	16.8,	349.3,	368.9,	-150.1,	-135.9,
25	16.8,	321.2,	353.6,	-119.4,	-127.7,	26	16.8,	283.3,	327.6,	-85.1,	-115.6,
27	16.8,	237.2,	291.6,	-48.2,	-100.2,	28	16.8,	279.9,	325.4,	-48.2,	-82.0,
29	16.8,	318.5,	352.2,	-49.2,	-61.0,	30	16.8,	347.4,	368.3,	-48.8,	-38.2,
31	16.8,	365.8,	373.3,	-46.8,	-14.2,	32	16.8,	373.0,	366.9,	-43.5,	10.2,
33	16.8,	368.9,	349.3,	-38.8,	34.3,	34	16.8,	353.6,	321.2,	-32.9,	57.4,
35	16.8,	327.6,	283.3,	-26.0,	78.7,	36	16.8,	291.6,	237.2,	-18.4,	97.6,

SOURCE ID: STCK42

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-255.4,	81.4,	2	16.8,	352.2,	318.5,	-286.9,	60.0,
3	16.8,	368.3,	347.4,	-309.7,	36.8,	4	16.8,	373.3,	365.8,	-323.1,	12.4,
5	16.8,	366.9,	373.0,	-326.7,	-12.3,	6	16.8,	349.3,	368.9,	-320.3,	-36.6,
7	16.8,	321.2,	353.6,	-304.2,	-59.9,	8	16.8,	283.3,	327.6,	-278.9,	-81.3,
9	16.8,	237.2,	291.6,	-245.1,	-100.0,	10	16.8,	279.9,	325.4,	-244.1,	-115.5,
11	16.8,	318.5,	352.2,	-236.1,	-127.7,	12	16.8,	347.4,	368.3,	-220.9,	-136.0,
13	16.8,	365.8,	373.3,	-199.1,	-140.2,	14	16.8,	373.0,	366.9,	-171.1,	-140.2,
15	16.8,	368.9,	349.3,	-138.0,	-135.9,	16	16.8,	353.6,	321.2,	-100.7,	-127.4,
17	16.8,	327.6,	283.3,	-60.3,	-115.1,	18	16.8,	291.6,	237.2,	-18.6,	-99.3,
19	16.8,	325.4,	279.9,	-24.5,	-81.4,	20	16.8,	352.2,	318.5,	-31.6,	-60.0,
21	16.8,	368.3,	347.4,	-37.7,	-36.8,	22	16.8,	373.3,	365.8,	-42.6,	-12.4,
23	16.8,	366.9,	373.0,	-46.3,	12.3,	24	16.8,	349.3,	368.9,	-48.6,	36.6,
25	16.8,	321.2,	353.6,	-49.4,	59.9,	26	16.8,	283.3,	327.6,	-48.7,	81.3,
27	16.8,	237.2,	291.6,	-46.5,	100.0,	28	16.8,	279.9,	325.4,	-81.3,	115.5,
29	16.8,	318.5,	352.2,	-116.1,	127.7,	30	16.8,	347.4,	368.3,	-147.4,	136.0,
31	16.8,	365.8,	373.3,	-174.2,	140.2,	32	16.8,	373.0,	366.9,	-195.8,	140.2,
33	16.8,	368.9,	349.3,	-211.3,	135.9,	34	16.8,	353.6,	321.2,	-220.5,	127.4,
35	16.8,	327.6,	283.3,	-222.9,	115.1,	36	16.8,	291.6,	237.2,	-218.6,	99.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK43

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-253.8,	72.3,	2	16.8,	352.2,	318.5,	-283.8,	51.3,
3	16.8,	368.3,	347.4,	-305.1,	28.8,	4	16.8,	373.3,	365.8,	-317.2,	5.4,
5	16.8,	366.9,	373.0,	-319.7,	-18.2,	6	16.8,	349.3,	368.9,	-312.4,	-41.2,
7	16.8,	321.2,	353.6,	-295.6,	-63.0,	8	16.8,	283.3,	327.6,	-269.9,	-82.9,
9	16.8,	237.2,	291.6,	-235.9,	-100.0,	10	16.8,	279.9,	325.4,	-235.0,	-113.9,
11	16.8,	318.5,	352.2,	-227.4,	-124.5,	12	16.8,	347.4,	368.3,	-213.0,	-131.4,
13	16.8,	365.8,	373.3,	-192.0,	-134.3,	14	16.8,	373.0,	366.9,	-165.2,	-133.1,
15	16.8,	368.9,	349.3,	-133.4,	-127.9,	16	16.8,	353.6,	321.2,	-97.6,	-118.8,
17	16.8,	327.6,	283.3,	-58.8,	-106.1,	18	16.8,	291.6,	237.2,	-18.6,	-90.1,
19	16.8,	325.4,	279.9,	-26.1,	-72.3,	20	16.8,	352.2,	318.5,	-34.7,	-51.3,
21	16.8,	368.3,	347.4,	-42.3,	-28.8,	22	16.8,	373.3,	365.8,	-48.5,	-5.4,
23	16.8,	366.9,	373.0,	-53.4,	18.2,	24	16.8,	349.3,	368.9,	-56.5,	41.2,
25	16.8,	321.2,	353.6,	-58.0,	63.0,	26	16.8,	283.3,	327.6,	-57.7,	82.9,
27	16.8,	237.2,	291.6,	-55.7,	100.0,	28	16.8,	279.9,	325.4,	-90.4,	113.9,
29	16.8,	318.5,	352.2,	-124.8,	124.5,	30	16.8,	347.4,	368.3,	-155.4,	131.4,
31	16.8,	365.8,	373.3,	-181.3,	134.3,	32	16.8,	373.0,	366.9,	-201.7,	133.1,
33	16.8,	368.9,	349.3,	-215.9,	127.9,	34	16.8,	353.6,	321.2,	-223.6,	118.8,
35	16.8,	327.6,	283.3,	-224.5,	106.1,	36	16.8,	291.6,	237.2,	-218.6,	90.1,

SOURCE ID: STCK44

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-253.2,	69.0,	2	16.8,	352.2,	318.5,	-282.6,	48.2,
3	16.8,	368.3,	347.4,	-303.4,	25.9,	4	16.8,	373.3,	365.8,	-315.0,	2.8,
5	16.8,	366.9,	373.0,	-317.1,	-20.4,	6	16.8,	349.3,	368.9,	-309.4,	-42.9,
7	16.8,	321.2,	353.6,	-292.4,	-64.2,	8	16.8,	283.3,	327.6,	-266.6,	-83.5,
9	16.8,	237.2,	291.6,	-232.6,	-100.0,	10	16.8,	279.9,	325.4,	-231.7,	-113.3,
11	16.8,	318.5,	352.2,	-224.3,	-123.4,	12	16.8,	347.4,	368.3,	-210.0,	-129.7,
13	16.8,	365.8,	373.3,	-189.4,	-132.2,	14	16.8,	373.0,	366.9,	-163.1,	-130.6,
15	16.8,	368.9,	349.3,	-131.7,	-125.0,	16	16.8,	353.6,	321.2,	-96.4,	-115.6,
17	16.8,	327.6,	283.3,	-58.2,	-102.8,	18	16.8,	291.6,	237.2,	-18.6,	-86.7,
19	16.8,	325.4,	279.9,	-26.7,	-69.0,	20	16.8,	352.2,	318.5,	-35.9,	-48.2,
21	16.8,	368.3,	347.4,	-44.0,	-25.9,	22	16.8,	373.3,	365.8,	-50.7,	-2.8,
23	16.8,	366.9,	373.0,	-55.9,	20.4,	24	16.8,	349.3,	368.9,	-59.5,	42.9,
25	16.8,	321.2,	353.6,	-61.2,	64.2,	26	16.8,	283.3,	327.6,	-61.1,	83.5,
27	16.8,	237.2,	291.6,	-59.1,	100.0,	28	16.8,	279.9,	325.4,	-93.7,	113.3,
29	16.8,	318.5,	352.2,	-127.9,	123.4,	30	16.8,	347.4,	368.3,	-158.3,	129.7,
31	16.8,	365.8,	373.3,	-183.9,	132.2,	32	16.8,	373.0,	366.9,	-203.8,	130.6,
33	16.8,	368.9,	349.3,	-217.6,	125.0,	34	16.8,	353.6,	321.2,	-224.8,	115.6,
35	16.8,	327.6,	283.3,	-225.1,	102.8,	36	16.8,	291.6,	237.2,	-218.6,	86.7,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK45

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-252.5,	64.9,	2	16.8,	352.2,	318.5,	-281.2,	44.3,
3	16.8,	368.3,	347.4,	-301.4,	22.3,	4	16.8,	373.3,	365.8,	-312.4,	-0.4,
5	16.8,	366.9,	373.0,	-313.9,	-23.0,	6	16.8,	349.3,	368.9,	-305.9,	-45.0,
7	16.8,	321.2,	353.6,	-288.6,	-65.6,	8	16.8,	283.3,	327.6,	-262.5,	-84.2,
9	16.8,	237.2,	291.6,	-228.4,	-100.0,	10	16.8,	279.9,	325.4,	-227.6,	-112.6,
11	16.8,	318.5,	352.2,	-220.4,	-122.0,	12	16.8,	347.4,	368.3,	-206.5,	-127.7,
13	16.8,	365.8,	373.3,	-186.3,	-129.5,	14	16.8,	373.0,	366.9,	-160.4,	-127.4,
15	16.8,	368.9,	349.3,	-129.7,	-121.4,	16	16.8,	353.6,	321.2,	-95.0,	-111.7,
17	16.8,	327.6,	283.3,	-57.4,	-98.7,	18	16.8,	291.6,	237.2,	-18.6,	-82.6,
19	16.8,	325.4,	279.9,	-27.4,	-64.9,	20	16.8,	352.2,	318.5,	-37.3,	-44.3,
21	16.8,	368.3,	347.4,	-46.0,	-22.3,	22	16.8,	373.3,	365.8,	-53.4,	0.4,
23	16.8,	366.9,	373.0,	-59.1,	23.0,	24	16.8,	349.3,	368.9,	-63.0,	45.0,
25	16.8,	321.2,	353.6,	-65.1,	65.6,	26	16.8,	283.3,	327.6,	-65.1,	84.2,
27	16.8,	237.2,	291.6,	-63.2,	100.0,	28	16.8,	279.9,	325.4,	-97.8,	112.6,
29	16.8,	318.5,	352.2,	-131.8,	122.0,	30	16.8,	347.4,	368.3,	-161.9,	127.7,
31	16.8,	365.8,	373.3,	-187.0,	129.5,	32	16.8,	373.0,	366.9,	-206.5,	127.4,
33	16.8,	368.9,	349.3,	-219.7,	121.4,	34	16.8,	353.6,	321.2,	-226.2,	111.7,
35	16.8,	327.6,	283.3,	-225.8,	98.7,	36	16.8,	291.6,	237.2,	-218.6,	82.6,

SOURCE ID: STCK46

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-251.7,	60.3,	2	16.8,	352.2,	318.5,	-279.6,	39.9,
3	16.8,	368.3,	347.4,	-299.0,	18.2,	4	16.8,	373.3,	365.8,	-309.4,	-4.0,
5	16.8,	366.9,	373.0,	-310.3,	-26.1,	6	16.8,	349.3,	368.9,	-301.8,	-47.3,
7	16.8,	321.2,	353.6,	-284.2,	-67.2,	8	16.8,	283.3,	327.6,	-257.9,	-85.0,
9	16.8,	237.2,	291.6,	-223.7,	-100.0,	10	16.8,	279.9,	325.4,	-223.0,	-111.8,
11	16.8,	318.5,	352.2,	-216.0,	-120.4,	12	16.8,	347.4,	368.3,	-202.4,	-125.3,
13	16.8,	365.8,	373.3,	-182.7,	-126.5,	14	16.8,	373.0,	366.9,	-157.4,	-123.8,
15	16.8,	368.9,	349.3,	-127.3,	-117.3,	16	16.8,	353.6,	321.2,	-93.4,	-107.3,
17	16.8,	327.6,	283.3,	-56.6,	-94.1,	18	16.8,	291.6,	237.2,	-18.6,	-77.9,
19	16.8,	325.4,	279.9,	-28.2,	-60.3,	20	16.8,	352.2,	318.5,	-38.9,	-39.9,
21	16.8,	368.3,	347.4,	-48.4,	-18.2,	22	16.8,	373.3,	365.8,	-56.4,	4.0,
23	16.8,	366.9,	373.0,	-62.7,	26.1,	24	16.8,	349.3,	368.9,	-67.1,	47.3,
25	16.8,	321.2,	353.6,	-69.5,	67.2,	26	16.8,	283.3,	327.6,	-69.7,	85.0,
27	16.8,	237.2,	291.6,	-67.9,	100.0,	28	16.8,	279.9,	325.4,	-102.4,	111.8,
29	16.8,	318.5,	352.2,	-136.2,	120.4,	30	16.8,	347.4,	368.3,	-165.9,	125.3,
31	16.8,	365.8,	373.3,	-190.6,	126.5,	32	16.8,	373.0,	366.9,	-209.5,	123.8,
33	16.8,	368.9,	349.3,	-222.0,	117.3,	34	16.8,	353.6,	321.2,	-227.8,	107.3,
35	16.8,	327.6,	283.3,	-226.6,	94.1,	36	16.8,	291.6,	237.2,	-218.6,	77.9,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK47

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-251.0,	56.6,	2	16.8,	352.2,	318.5,	-278.3,	36.3,
3	16.8,	368.3,	347.4,	-297.2,	15.0,	4	16.8,	373.3,	365.8,	-307.0,	-6.8,
5	16.8,	366.9,	373.0,	-307.4,	-28.5,	6	16.8,	349.3,	368.9,	-298.6,	-49.2,
7	16.8,	321.2,	353.6,	-280.6,	-68.5,	8	16.8,	283.3,	327.6,	-254.2,	-85.6,
9	16.8,	237.2,	291.6,	-220.0,	-100.0,	10	16.8,	279.9,	325.4,	-219.3,	-111.1,
11	16.8,	318.5,	352.2,	-212.5,	-119.1,	12	16.8,	347.4,	368.3,	-199.2,	-123.5,
13	16.8,	365.8,	373.3,	-179.8,	-124.1,	14	16.8,	373.0,	366.9,	-155.0,	-120.9,
15	16.8,	368.9,	349.3,	-125.5,	-114.1,	16	16.8,	353.6,	321.2,	-92.1,	-103.8,
17	16.8,	327.6,	283.3,	-56.0,	-90.4,	18	16.8,	291.6,	237.2,	-18.6,	-74.2,
19	16.8,	325.4,	279.9,	-28.9,	-56.6,	20	16.8,	352.2,	318.5,	-40.1,	-36.3,
21	16.8,	368.3,	347.4,	-50.2,	-15.0,	22	16.8,	373.3,	365.8,	-58.8,	6.8,
23	16.8,	366.9,	373.0,	-65.6,	28.5,	24	16.8,	349.3,	368.9,	-70.4,	49.2,
25	16.8,	321.2,	353.6,	-73.0,	68.5,	26	16.8,	283.3,	327.6,	-73.4,	85.6,
27	16.8,	237.2,	291.6,	-71.6,	100.0,	28	16.8,	279.9,	325.4,	-106.1,	111.1,
29	16.8,	318.5,	352.2,	-139.8,	119.1,	30	16.8,	347.4,	368.3,	-169.2,	123.5,
31	16.8,	365.8,	373.3,	-193.5,	124.1,	32	16.8,	373.0,	366.9,	-211.9,	120.9,
33	16.8,	368.9,	349.3,	-223.9,	114.1,	34	16.8,	353.6,	321.2,	-229.1,	103.8,
35	16.8,	327.6,	283.3,	-227.3,	90.4,	36	16.8,	291.6,	237.2,	-218.6,	74.2,

SOURCE ID: STCK48

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-250.4,	52.7,	2	16.8,	352.2,	318.5,	-277.0,	32.6,
3	16.8,	368.3,	347.4,	-295.2,	11.6,	4	16.8,	373.3,	365.8,	-304.4,	-9.9,
5	16.8,	366.9,	373.0,	-304.4,	-31.0,	6	16.8,	349.3,	368.9,	-295.2,	-51.2,
7	16.8,	321.2,	353.6,	-276.9,	-69.8,	8	16.8,	283.3,	327.6,	-250.3,	-86.3,
9	16.8,	237.2,	291.6,	-216.0,	-100.0,	10	16.8,	279.9,	325.4,	-215.4,	-110.4,
11	16.8,	318.5,	352.2,	-208.7,	-117.7,	12	16.8,	347.4,	368.3,	-195.7,	-121.5,
13	16.8,	365.8,	373.3,	-176.8,	-121.5,	14	16.8,	373.0,	366.9,	-152.4,	-117.9,
15	16.8,	368.9,	349.3,	-123.5,	-110.7,	16	16.8,	353.6,	321.2,	-90.8,	-100.1,
17	16.8,	327.6,	283.3,	-55.3,	-86.5,	18	16.8,	291.6,	237.2,	-18.6,	-70.2,
19	16.8,	325.4,	279.9,	-29.5,	-52.7,	20	16.8,	352.2,	318.5,	-41.5,	-32.6,
21	16.8,	368.3,	347.4,	-52.2,	-11.6,	22	16.8,	373.3,	365.8,	-61.3,	9.9,
23	16.8,	366.9,	373.0,	-68.6,	31.0,	24	16.8,	349.3,	368.9,	-73.8,	51.2,
25	16.8,	321.2,	353.6,	-76.7,	69.8,	26	16.8,	283.3,	327.6,	-77.3,	86.3,
27	16.8,	237.2,	291.6,	-75.6,	100.0,	28	16.8,	279.9,	325.4,	-110.0,	110.4,
29	16.8,	318.5,	352.2,	-143.5,	117.7,	30	16.8,	347.4,	368.3,	-172.6,	121.5,
31	16.8,	365.8,	373.3,	-196.5,	121.5,	32	16.8,	373.0,	366.9,	-214.4,	117.9,
33	16.8,	368.9,	349.3,	-225.9,	110.7,	34	16.8,	353.6,	321.2,	-230.4,	100.1,
35	16.8,	327.6,	283.3,	-228.0,	86.5,	36	16.8,	291.6,	237.2,	-218.6,	70.2,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK49

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-249.5,	47.9,	2	16.8,	352.2,	318.5,	-275.3,	28.1,
3	16.8,	368.3,	347.4,	-292.8,	7.3,	4	16.8,	373.3,	365.8,	-301.3,	-13.6,
5	16.8,	366.9,	373.0,	-300.7,	-34.1,	6	16.8,	349.3,	368.9,	-290.9,	-53.6,
7	16.8,	321.2,	353.6,	-272.3,	-71.5,	8	16.8,	283.3,	327.6,	-245.5,	-87.2,
9	16.8,	237.2,	291.6,	-211.2,	-100.0,	10	16.8,	279.9,	325.4,	-210.6,	-109.6,
11	16.8,	318.5,	352.2,	-204.2,	-116.1,	12	16.8,	347.4,	368.3,	-191.5,	-119.0,
13	16.8,	365.8,	373.3,	-173.0,	-118.4,	14	16.8,	373.0,	366.9,	-149.3,	-114.2,
15	16.8,	368.9,	349.3,	-121.0,	-106.5,	16	16.8,	353.6,	321.2,	-89.1,	-95.5,
17	16.8,	327.6,	283.3,	-54.4,	-81.7,	18	16.8,	291.6,	237.2,	-18.6,	-65.3,
19	16.8,	325.4,	279.9,	-30.4,	-47.9,	20	16.8,	352.2,	318.5,	-43.2,	-28.1,
21	16.8,	368.3,	347.4,	-54.6,	-7.3,	22	16.8,	373.3,	365.8,	-64.5,	13.6,
23	16.8,	366.9,	373.0,	-72.3,	34.1,	24	16.8,	349.3,	368.9,	-78.0,	53.6,
25	16.8,	321.2,	353.6,	-81.3,	71.5,	26	16.8,	283.3,	327.6,	-82.1,	87.2,
27	16.8,	237.2,	291.6,	-80.5,	100.0,	28	16.8,	279.9,	325.4,	-114.8,	109.6,
29	16.8,	318.5,	352.2,	-148.0,	116.1,	30	16.8,	347.4,	368.3,	-176.8,	119.0,
31	16.8,	365.8,	373.3,	-200.2,	118.4,	32	16.8,	373.0,	366.9,	-217.6,	114.2,
33	16.8,	368.9,	349.3,	-228.3,	106.5,	34	16.8,	353.6,	321.2,	-232.1,	95.5,
35	16.8,	327.6,	283.3,	-228.8,	81.7,	36	16.8,	291.6,	237.2,	-218.6,	65.3,

SOURCE ID: STCK50

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-248.1,	39.8,	2	16.8,	352.2,	318.5,	-272.5,	20.3,
3	16.8,	368.3,	347.4,	-288.6,	0.2,	4	16.8,	373.3,	365.8,	-296.0,	-19.9,
5	16.8,	366.9,	373.0,	-294.4,	-39.4,	6	16.8,	349.3,	368.9,	-283.8,	-57.8,
7	16.8,	321.2,	353.6,	-264.6,	-74.3,	8	16.8,	283.3,	327.6,	-237.4,	-88.6,
9	16.8,	237.2,	291.6,	-202.9,	-100.0,	10	16.8,	279.9,	325.4,	-202.5,	-108.1,
11	16.8,	318.5,	352.2,	-196.4,	-113.2,	12	16.8,	347.4,	368.3,	-184.4,	-114.9,
13	16.8,	365.8,	373.3,	-166.7,	-113.1,	14	16.8,	373.0,	366.9,	-144.0,	-107.8,
15	16.8,	368.9,	349.3,	-116.9,	-99.3,	16	16.8,	353.6,	321.2,	-86.3,	-87.8,
17	16.8,	327.6,	283.3,	-53.0,	-73.5,	18	16.8,	291.6,	237.2,	-18.6,	-57.1,
19	16.8,	325.4,	279.9,	-31.8,	-39.8,	20	16.8,	352.2,	318.5,	-46.0,	-20.3,
21	16.8,	368.3,	347.4,	-58.8,	-0.2,	22	16.8,	373.3,	365.8,	-69.8,	19.9,
23	16.8,	366.9,	373.0,	-78.7,	39.4,	24	16.8,	349.3,	368.9,	-85.2,	57.8,
25	16.8,	321.2,	353.6,	-89.1,	74.3,	26	16.8,	283.3,	327.6,	-90.3,	88.6,
27	16.8,	237.2,	291.6,	-88.7,	100.0,	28	16.8,	279.9,	325.4,	-122.9,	108.1,
29	16.8,	318.5,	352.2,	-155.8,	113.2,	30	16.8,	347.4,	368.3,	-184.0,	114.9,
31	16.8,	365.8,	373.3,	-206.6,	113.1,	32	16.8,	373.0,	366.9,	-222.9,	107.8,
33	16.8,	368.9,	349.3,	-232.4,	99.3,	34	16.8,	353.6,	321.2,	-234.9,	87.8,
35	16.8,	327.6,	283.3,	-230.2,	73.5,	36	16.8,	291.6,	237.2,	-218.6,	57.1,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK51

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-247.2,	34.8,	2	16.8,	352.2,	318.5,	-270.8,	15.5,
3	16.8,	368.3,	347.4,	-286.1,	-4.2,	4	16.8,	373.3,	365.8,	-292.7,	-23.8,
5	16.8,	366.9,	373.0,	-290.5,	-42.7,	6	16.8,	349.3,	368.9,	-279.4,	-60.3,
7	16.8,	321.2,	353.6,	-259.8,	-76.0,	8	16.8,	283.3,	327.6,	-232.4,	-89.5,
9	16.8,	237.2,	291.6,	-197.8,	-100.0,	10	16.8,	279.9,	325.4,	-197.5,	-107.2,
11	16.8,	318.5,	352.2,	-191.6,	-111.5,	12	16.8,	347.4,	368.3,	-180.0,	-112.4,
13	16.8,	365.8,	373.3,	-162.8,	-109.8,	14	16.8,	373.0,	366.9,	-140.7,	-104.0,
15	16.8,	368.9,	349.3,	-114.4,	-94.9,	16	16.8,	353.6,	321.2,	-84.5,	-83.0,
17	16.8,	327.6,	283.3,	-52.1,	-68.5,	18	16.8,	291.6,	237.2,	-18.6,	-52.0,
19	16.8,	325.4,	279.9,	-32.7,	-34.8,	20	16.8,	352.2,	318.5,	-47.7,	-15.5,
21	16.8,	368.3,	347.4,	-61.3,	4.2,	22	16.8,	373.3,	365.8,	-73.0,	23.8,
23	16.8,	366.9,	373.0,	-82.5,	42.7,	24	16.8,	349.3,	368.9,	-89.5,	60.3,
25	16.8,	321.2,	353.6,	-93.8,	76.0,	26	16.8,	283.3,	327.6,	-95.2,	89.5,
27	16.8,	237.2,	291.6,	-93.8,	100.0,	28	16.8,	279.9,	325.4,	-127.9,	107.2,
29	16.8,	318.5,	352.2,	-160.6,	111.5,	30	16.8,	347.4,	368.3,	-188.4,	112.4,
31	16.8,	365.8,	373.3,	-210.5,	109.8,	32	16.8,	373.0,	366.9,	-226.1,	104.0,
33	16.8,	368.9,	349.3,	-235.0,	94.9,	34	16.8,	353.6,	321.2,	-236.6,	83.0,
35	16.8,	327.6,	283.3,	-231.1,	68.5,	36	16.8,	291.6,	237.2,	-218.6,	52.0,

SOURCE ID: STCK52

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-246.5,	30.7,	2	16.8,	352.2,	318.5,	-269.3,	11.7,
3	16.8,	368.3,	347.4,	-284.0,	-7.8,	4	16.8,	373.3,	365.8,	-290.1,	-27.0,
5	16.8,	366.9,	373.0,	-287.3,	-45.3,	6	16.8,	349.3,	368.9,	-275.8,	-62.3,
7	16.8,	321.2,	353.6,	-255.9,	-77.5,	8	16.8,	283.3,	327.6,	-228.3,	-90.2,
9	16.8,	237.2,	291.6,	-193.7,	-100.0,	10	16.8,	279.9,	325.4,	-193.4,	-106.5,
11	16.8,	318.5,	352.2,	-187.8,	-110.1,	12	16.8,	347.4,	368.3,	-176.4,	-110.3,
13	16.8,	365.8,	373.3,	-159.7,	-107.2,	14	16.8,	373.0,	366.9,	-138.1,	-100.8,
15	16.8,	368.9,	349.3,	-112.3,	-91.3,	16	16.8,	353.6,	321.2,	-83.1,	-79.1,
17	16.8,	327.6,	283.3,	-51.4,	-64.5,	18	16.8,	291.6,	237.2,	-18.6,	-47.9,
19	16.8,	325.4,	279.9,	-33.4,	-30.7,	20	16.8,	352.2,	318.5,	-49.1,	-11.7,
21	16.8,	368.3,	347.4,	-63.4,	7.8,	22	16.8,	373.3,	365.8,	-75.7,	27.0,
23	16.8,	366.9,	373.0,	-85.7,	45.3,	24	16.8,	349.3,	368.9,	-93.1,	62.3,
25	16.8,	321.2,	353.6,	-97.7,	77.5,	26	16.8,	283.3,	327.6,	-99.3,	90.2,
27	16.8,	237.2,	291.6,	-97.9,	100.0,	28	16.8,	279.9,	325.4,	-132.0,	106.5,
29	16.8,	318.5,	352.2,	-164.5,	110.1,	30	16.8,	347.4,	368.3,	-192.0,	110.3,
31	16.8,	365.8,	373.3,	-213.6,	107.2,	32	16.8,	373.0,	366.9,	-228.8,	100.8,
33	16.8,	368.9,	349.3,	-237.0,	91.3,	34	16.8,	353.6,	321.2,	-238.1,	79.1,
35	16.8,	327.6,	283.3,	-231.8,	64.5,	36	16.8,	291.6,	237.2,	-218.6,	47.9,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK53

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-245.7,	26.5,	2	16.8,	352.2,	318.5,	-267.9,	7.6,
3	16.8,	368.3,	347.4,	-281.9,	-11.5,	4	16.8,	373.3,	365.8,	-287.3,	-30.3,
5	16.8,	366.9,	373.0,	-284.0,	-48.1,	6	16.8,	349.3,	368.9,	-272.1,	-64.5,
7	16.8,	321.2,	353.6,	-251.9,	-78.9,	8	16.8,	283.3,	327.6,	-224.0,	-91.0,
9	16.8,	237.2,	291.6,	-189.4,	-100.0,	10	16.8,	279.9,	325.4,	-189.2,	-105.8,
11	16.8,	318.5,	352.2,	-183.7,	-108.6,	12	16.8,	347.4,	368.3,	-172.7,	-108.2,
13	16.8,	365.8,	373.3,	-156.4,	-104.4,	14	16.8,	373.0,	366.9,	-135.3,	-97.5,
15	16.8,	368.9,	349.3,	-110.2,	-87.6,	16	16.8,	353.6,	321.2,	-81.7,	-75.1,
17	16.8,	327.6,	283.3,	-50.7,	-60.2,	18	16.8,	291.6,	237.2,	-18.6,	-43.6,
19	16.8,	325.4,	279.9,	-34.2,	-26.5,	20	16.8,	352.2,	318.5,	-50.6,	-7.6,
21	16.8,	368.3,	347.4,	-65.5,	11.5,	22	16.8,	373.3,	365.8,	-78.5,	30.3,
23	16.8,	366.9,	373.0,	-89.0,	48.1,	24	16.8,	349.3,	368.9,	-96.9,	64.5,
25	16.8,	321.2,	353.6,	-101.8,	78.9,	26	16.8,	283.3,	327.6,	-103.6,	91.0,
27	16.8,	237.2,	291.6,	-102.2,	100.0,	28	16.8,	279.9,	325.4,	-136.2,	105.8,
29	16.8,	318.5,	352.2,	-168.5,	108.6,	30	16.8,	347.4,	368.3,	-195.7,	108.2,
31	16.8,	365.8,	373.3,	-216.9,	104.4,	32	16.8,	373.0,	366.9,	-231.6,	97.5,
33	16.8,	368.9,	349.3,	-239.2,	87.6,	34	16.8,	353.6,	321.2,	-239.5,	75.1,
35	16.8,	327.6,	283.3,	-232.6,	60.2,	36	16.8,	291.6,	237.2,	-218.6,	43.6,

SOURCE ID: STCK54

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-245.0,	22.4,	2	16.8,	352.2,	318.5,	-266.4,	3.7,
3	16.8,	368.3,	347.4,	-279.8,	-15.1,	4	16.8,	373.3,	365.8,	-284.6,	-33.4,
5	16.8,	366.9,	373.0,	-280.8,	-50.8,	6	16.8,	349.3,	368.9,	-268.5,	-66.6,
7	16.8,	321.2,	353.6,	-248.0,	-80.3,	8	16.8,	283.3,	327.6,	-220.0,	-91.7,
9	16.8,	237.2,	291.6,	-185.3,	-100.0,	10	16.8,	279.9,	325.4,	-185.1,	-105.1,
11	16.8,	318.5,	352.2,	-179.8,	-107.2,	12	16.8,	347.4,	368.3,	-169.1,	-106.1,
13	16.8,	365.8,	373.3,	-153.2,	-101.8,	14	16.8,	373.0,	366.9,	-132.7,	-94.3,
15	16.8,	368.9,	349.3,	-108.1,	-84.0,	16	16.8,	353.6,	321.2,	-80.2,	-71.2,
17	16.8,	327.6,	283.3,	-50.0,	-56.2,	18	16.8,	291.6,	237.2,	-18.6,	-39.4,
19	16.8,	325.4,	279.9,	-34.9,	-22.4,	20	16.8,	352.2,	318.5,	-52.0,	-3.7,
21	16.8,	368.3,	347.4,	-67.6,	15.1,	22	16.8,	373.3,	365.8,	-81.1,	33.4,
23	16.8,	366.9,	373.0,	-92.2,	50.8,	24	16.8,	349.3,	368.9,	-100.4,	66.6,
25	16.8,	321.2,	353.6,	-105.6,	80.3,	26	16.8,	283.3,	327.6,	-107.6,	91.7,
27	16.8,	237.2,	291.6,	-106.3,	100.0,	28	16.8,	279.9,	325.4,	-140.3,	105.1,
29	16.8,	318.5,	352.2,	-172.4,	107.2,	30	16.8,	347.4,	368.3,	-199.3,	106.1,
31	16.8,	365.8,	373.3,	-220.1,	101.8,	32	16.8,	373.0,	366.9,	-234.2,	94.3,
33	16.8,	368.9,	349.3,	-241.2,	84.0,	34	16.8,	353.6,	321.2,	-240.9,	71.2,
35	16.8,	327.6,	283.3,	-233.3,	56.2,	36	16.8,	291.6,	237.2,	-218.6,	39.4,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK55

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-244.2,	17.8,	2	16.8,	352.2,	318.5,	-264.8,	-0.7,
3	16.8,	368.3,	347.4,	-277.4,	-19.2,	4	16.8,	373.3,	365.8,	-281.6,	-37.0,
5	16.8,	366.9,	373.0,	-277.2,	-53.8,	6	16.8,	349.3,	368.9,	-264.4,	-68.9,
7	16.8,	321.2,	353.6,	-243.6,	-82.0,	8	16.8,	283.3,	327.6,	-215.4,	-92.5,
9	16.8,	237.2,	291.6,	-180.6,	-100.0,	10	16.8,	279.9,	325.4,	-180.5,	-104.2,
11	16.8,	318.5,	352.2,	-175.4,	-105.6,	12	16.8,	347.4,	368.3,	-165.0,	-103.8,
13	16.8,	365.8,	373.3,	-149.6,	-98.7,	14	16.8,	373.0,	366.9,	-129.7,	-90.7,
15	16.8,	368.9,	349.3,	-105.8,	-80.0,	16	16.8,	353.6,	321.2,	-78.6,	-66.8,
17	16.8,	327.6,	283.3,	-49.1,	-51.5,	18	16.8,	291.6,	237.2,	-18.6,	-34.8,
19	16.8,	325.4,	279.9,	-35.7,	-17.8,	20	16.8,	352.2,	318.5,	-53.6,	0.7,
21	16.8,	368.3,	347.4,	-70.0,	19.2,	22	16.8,	373.3,	365.8,	-84.1,	37.0,
23	16.8,	366.9,	373.0,	-95.8,	53.8,	24	16.8,	349.3,	368.9,	-104.5,	68.9,
25	16.8,	321.2,	353.6,	-110.0,	82.0,	26	16.8,	283.3,	327.6,	-112.2,	92.5,
27	16.8,	237.2,	291.6,	-111.0,	100.0,	28	16.8,	279.9,	325.4,	-144.9,	104.2,
29	16.8,	318.5,	352.2,	-176.8,	105.6,	30	16.8,	347.4,	368.3,	-203.3,	103.8,
31	16.8,	365.8,	373.3,	-223.7,	98.7,	32	16.8,	373.0,	366.9,	-237.2,	90.7,
33	16.8,	368.9,	349.3,	-243.6,	80.0,	34	16.8,	353.6,	321.2,	-242.5,	66.8,
35	16.8,	327.6,	283.3,	-234.1,	51.5,	36	16.8,	291.6,	237.2,	-218.6,	34.8,

SOURCE ID: STCK56

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-243.4,	13.4,	2	16.8,	352.2,	318.5,	-263.3,	-4.9,
3	16.8,	368.3,	347.4,	-275.2,	-23.1,	4	16.8,	373.3,	365.8,	-278.7,	-40.5,
5	16.8,	366.9,	373.0,	-273.8,	-56.7,	6	16.8,	349.3,	368.9,	-260.5,	-71.2,
7	16.8,	321.2,	353.6,	-239.4,	-83.5,	8	16.8,	283.3,	327.6,	-210.9,	-93.3,
9	16.8,	237.2,	291.6,	-176.1,	-100.0,	10	16.8,	279.9,	325.4,	-176.1,	-103.5,
11	16.8,	318.5,	352.2,	-171.2,	-104.1,	12	16.8,	347.4,	368.3,	-161.1,	-101.5,
13	16.8,	365.8,	373.3,	-146.2,	-95.8,	14	16.8,	373.0,	366.9,	-126.8,	-87.3,
15	16.8,	368.9,	349.3,	-103.5,	-76.1,	16	16.8,	353.6,	321.2,	-77.1,	-62.5,
17	16.8,	327.6,	283.3,	-48.4,	-47.1,	18	16.8,	291.6,	237.2,	-18.6,	-30.3,
19	16.8,	325.4,	279.9,	-36.5,	-13.4,	20	16.8,	352.2,	318.5,	-55.2,	4.9,
21	16.8,	368.3,	347.4,	-72.2,	23.1,	22	16.8,	373.3,	365.8,	-87.0,	40.5,
23	16.8,	366.9,	373.0,	-99.2,	56.7,	24	16.8,	349.3,	368.9,	-108.4,	71.2,
25	16.8,	321.2,	353.6,	-114.3,	83.5,	26	16.8,	283.3,	327.6,	-116.7,	93.3,
27	16.8,	237.2,	291.6,	-115.5,	100.0,	28	16.8,	279.9,	325.4,	-149.3,	103.5,
29	16.8,	318.5,	352.2,	-181.0,	104.1,	30	16.8,	347.4,	368.3,	-207.2,	101.5,
31	16.8,	365.8,	373.3,	-227.1,	95.8,	32	16.8,	373.0,	366.9,	-240.1,	87.3,
33	16.8,	368.9,	349.3,	-245.8,	76.1,	34	16.8,	353.6,	321.2,	-244.1,	62.5,
35	16.8,	327.6,	283.3,	-234.9,	47.1,	36	16.8,	291.6,	237.2,	-218.6,	30.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK57

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-242.0,	5.4,	2	16.8,	352.2,	318.5,	-260.6,	-12.5,
3	16.8,	368.3,	347.4,	-271.2,	-30.0,	4	16.8,	373.3,	365.8,	-273.6,	-46.7,
5	16.8,	366.9,	373.0,	-267.6,	-61.9,	6	16.8,	349.3,	368.9,	-253.6,	-75.2,
7	16.8,	321.2,	353.6,	-231.8,	-86.2,	8	16.8,	283.3,	327.6,	-203.0,	-94.7,
9	16.8,	237.2,	291.6,	-168.0,	-100.0,	10	16.8,	279.9,	325.4,	-168.1,	-102.1,
11	16.8,	318.5,	352.2,	-163.6,	-101.3,	12	16.8,	347.4,	368.3,	-154.1,	-97.5,
13	16.8,	365.8,	373.3,	-140.0,	-90.7,	14	16.8,	373.0,	366.9,	-121.6,	-81.1,
15	16.8,	368.9,	349.3,	-99.5,	-69.1,	16	16.8,	353.6,	321.2,	-74.3,	-55.0,
17	16.8,	327.6,	283.3,	-47.0,	-39.2,	18	16.8,	291.6,	237.2,	-18.6,	-22.2,
19	16.8,	325.4,	279.9,	-37.9,	-5.4,	20	16.8,	352.2,	318.5,	-57.9,	12.5,
21	16.8,	368.3,	347.4,	-76.2,	30.0,	22	16.8,	373.3,	365.8,	-92.2,	46.7,
23	16.8,	366.9,	373.0,	-105.4,	61.9,	24	16.8,	349.3,	368.9,	-115.4,	75.2,
25	16.8,	321.2,	353.6,	-121.8,	86.2,	26	16.8,	283.3,	327.6,	-124.6,	94.7,
27	16.8,	237.2,	291.6,	-123.6,	100.0,	28	16.8,	279.9,	325.4,	-157.3,	102.1,
29	16.8,	318.5,	352.2,	-188.6,	101.3,	30	16.8,	347.4,	368.3,	-214.2,	97.5,
31	16.8,	365.8,	373.3,	-233.3,	90.7,	32	16.8,	373.0,	366.9,	-245.3,	81.1,
33	16.8,	368.9,	349.3,	-249.9,	69.1,	34	16.8,	353.6,	321.2,	-246.8,	55.0,
35	16.8,	327.6,	283.3,	-236.3,	39.2,	36	16.8,	291.6,	237.2,	-218.6,	22.2,

SOURCE ID: STCK58

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-241.0,	-0.1,	2	16.8,	352.2,	318.5,	-258.6,	-17.8,
3	16.8,	368.3,	347.4,	-268.4,	-34.9,	4	16.8,	373.3,	365.8,	-269.9,	-51.0,
5	16.8,	366.9,	373.0,	-263.3,	-65.5,	6	16.8,	349.3,	368.9,	-248.7,	-78.0,
7	16.8,	321.2,	353.6,	-226.5,	-88.2,	8	16.8,	283.3,	327.6,	-197.4,	-95.6,
9	16.8,	237.2,	291.6,	-162.4,	-100.0,	10	16.8,	279.9,	325.4,	-162.6,	-101.1,
11	16.8,	318.5,	352.2,	-158.3,	-99.4,	12	16.8,	347.4,	368.3,	-149.3,	-94.6,
13	16.8,	365.8,	373.3,	-135.7,	-87.0,	14	16.8,	373.0,	366.9,	-118.0,	-76.8,
15	16.8,	368.9,	349.3,	-96.6,	-64.2,	16	16.8,	353.6,	321.2,	-72.4,	-49.7,
17	16.8,	327.6,	283.3,	-46.0,	-33.6,	18	16.8,	291.6,	237.2,	-18.6,	-16.6,
19	16.8,	325.4,	279.9,	-38.8,	0.1,	20	16.8,	352.2,	318.5,	-59.9,	17.8,
21	16.8,	368.3,	347.4,	-79.0,	34.9,	22	16.8,	373.3,	365.8,	-95.8,	51.0,
23	16.8,	366.9,	373.0,	-109.7,	65.5,	24	16.8,	349.3,	368.9,	-120.3,	78.0,
25	16.8,	321.2,	353.6,	-127.1,	88.2,	26	16.8,	283.3,	327.6,	-130.2,	95.6,
27	16.8,	237.2,	291.6,	-129.2,	100.0,	28	16.8,	279.9,	325.4,	-162.8,	101.1,
29	16.8,	318.5,	352.2,	-193.9,	99.4,	30	16.8,	347.4,	368.3,	-219.1,	94.6,
31	16.8,	365.8,	373.3,	-237.6,	87.0,	32	16.8,	373.0,	366.9,	-248.9,	76.8,
33	16.8,	368.9,	349.3,	-252.7,	64.2,	34	16.8,	353.6,	321.2,	-248.8,	49.7,
35	16.8,	327.6,	283.3,	-237.3,	33.6,	36	16.8,	291.6,	237.2,	-218.6,	16.6,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK59

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-240.5,	-3.4,	2	16.8,	352.2,	318.5,	-257.5,	-21.0,
3	16.8,	368.3,	347.4,	-266.7,	-37.8,	4	16.8,	373.3,	365.8,	-267.8,	-53.6,
5	16.8,	366.9,	373.0,	-260.7,	-67.7,	6	16.8,	349.3,	368.9,	-245.8,	-79.7,
7	16.8,	321.2,	353.6,	-223.3,	-89.3,	8	16.8,	283.3,	327.6,	-194.1,	-96.2,
9	16.8,	237.2,	291.6,	-159.0,	-100.0,	10	16.8,	279.9,	325.4,	-159.2,	-100.5,
11	16.8,	318.5,	352.2,	-155.1,	-98.2,	12	16.8,	347.4,	368.3,	-146.3,	-93.0,
13	16.8,	365.8,	373.3,	-133.1,	-84.9,	14	16.8,	373.0,	366.9,	-115.8,	-74.2,
15	16.8,	368.9,	349.3,	-95.0,	-61.3,	16	16.8,	353.6,	321.2,	-71.3,	-46.5,
17	16.8,	327.6,	283.3,	-45.4,	-30.3,	18	16.8,	291.6,	237.2,	-18.6,	-13.2,
19	16.8,	325.4,	279.9,	-39.4,	3.4,	20	16.8,	352.2,	318.5,	-61.0,	21.0,
21	16.8,	368.3,	347.4,	-80.7,	37.8,	22	16.8,	373.3,	365.8,	-98.0,	53.6,
23	16.8,	366.9,	373.0,	-112.3,	67.7,	24	16.8,	349.3,	368.9,	-123.2,	79.7,
25	16.8,	321.2,	353.6,	-130.3,	89.3,	26	16.8,	283.3,	327.6,	-133.5,	96.2,
27	16.8,	237.2,	291.6,	-132.6,	100.0,	28	16.8,	279.9,	325.4,	-166.1,	100.5,
29	16.8,	318.5,	352.2,	-197.1,	98.2,	30	16.8,	347.4,	368.3,	-222.0,	93.0,
31	16.8,	365.8,	373.3,	-240.2,	84.9,	32	16.8,	373.0,	366.9,	-251.1,	74.2,
33	16.8,	368.9,	349.3,	-254.4,	61.3,	34	16.8,	353.6,	321.2,	-249.9,	46.5,
35	16.8,	327.6,	283.3,	-237.9,	30.3,	36	16.8,	291.6,	237.2,	-218.6,	13.2,

SOURCE ID: STCK60

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-239.8,	-7.3,	2	16.8,	352.2,	318.5,	-256.1,	-24.7,
3	16.8,	368.3,	347.4,	-264.7,	-41.2,	4	16.8,	373.3,	365.8,	-265.2,	-56.6,
5	16.8,	366.9,	373.0,	-257.7,	-70.2,	6	16.8,	349.3,	368.9,	-242.3,	-81.7,
7	16.8,	321.2,	353.6,	-219.6,	-90.7,	8	16.8,	283.3,	327.6,	-190.2,	-96.9,
9	16.8,	237.2,	291.6,	-155.1,	-100.0,	10	16.8,	279.9,	325.4,	-155.4,	-99.8,
11	16.8,	318.5,	352.2,	-151.4,	-96.9,	12	16.8,	347.4,	368.3,	-142.9,	-91.0,
13	16.8,	365.8,	373.3,	-130.1,	-82.3,	14	16.8,	373.0,	366.9,	-113.2,	-71.2,
15	16.8,	368.9,	349.3,	-93.0,	-57.9,	16	16.8,	353.6,	321.2,	-69.9,	-42.8,
17	16.8,	327.6,	283.3,	-44.7,	-26.4,	18	16.8,	291.6,	237.2,	-18.6,	-9.2,
19	16.8,	325.4,	279.9,	-40.1,	7.3,	20	16.8,	352.2,	318.5,	-62.4,	24.7,
21	16.8,	368.3,	347.4,	-82.7,	41.2,	22	16.8,	373.3,	365.8,	-100.5,	56.6,
23	16.8,	366.9,	373.0,	-115.3,	70.2,	24	16.8,	349.3,	368.9,	-126.6,	81.7,
25	16.8,	321.2,	353.6,	-134.0,	90.7,	26	16.8,	283.3,	327.6,	-137.4,	96.9,
27	16.8,	237.2,	291.6,	-136.6,	100.0,	28	16.8,	279.9,	325.4,	-170.0,	99.8,
29	16.8,	318.5,	352.2,	-200.8,	96.9,	30	16.8,	347.4,	368.3,	-225.4,	91.0,
31	16.8,	365.8,	373.3,	-243.2,	82.3,	32	16.8,	373.0,	366.9,	-253.6,	71.2,
33	16.8,	368.9,	349.3,	-256.4,	57.9,	34	16.8,	353.6,	321.2,	-251.3,	42.8,
35	16.8,	327.6,	283.3,	-238.6,	26.4,	36	16.8,	291.6,	237.2,	-218.6,	9.2,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK61

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-239.1,	-11.2,	2	16.8,	352.2,	318.5,	-254.8,	-28.4,
3	16.8,	368.3,	347.4,	-262.7,	-44.7,	4	16.8,	373.3,	365.8,	-262.7,	-59.6,
5	16.8,	366.9,	373.0,	-254.7,	-72.7,	6	16.8,	349.3,	368.9,	-238.9,	-83.6,
7	16.8,	321.2,	353.6,	-215.9,	-92.0,	8	16.8,	283.3,	327.6,	-186.3,	-97.6,
9	16.8,	237.2,	291.6,	-151.1,	-100.0,	10	16.8,	279.9,	325.4,	-151.5,	-99.1,
11	16.8,	318.5,	352.2,	-147.7,	-95.5,	12	16.8,	347.4,	368.3,	-139.5,	-89.0,
13	16.8,	365.8,	373.3,	-127.0,	-79.8,	14	16.8,	373.0,	366.9,	-110.7,	-68.2,
15	16.8,	368.9,	349.3,	-91.0,	-54.5,	16	16.8,	353.6,	321.2,	-68.6,	-39.1,
17	16.8,	327.6,	283.3,	-44.0,	-22.5,	18	16.8,	291.6,	237.2,	-18.6,	-5.3,
19	16.8,	325.4,	279.9,	-40.8,	11.2,	20	16.8,	352.2,	318.5,	-63.7,	28.4,
21	16.8,	368.3,	347.4,	-84.7,	44.7,	22	16.8,	373.3,	365.8,	-103.1,	59.6,
23	16.8,	366.9,	373.0,	-118.3,	72.7,	24	16.8,	349.3,	368.9,	-130.0,	83.6,
25	16.8,	321.2,	353.6,	-137.7,	92.0,	26	16.8,	283.3,	327.6,	-141.3,	97.6,
27	16.8,	237.2,	291.6,	-140.5,	100.0,	28	16.8,	279.9,	325.4,	-173.9,	99.1,
29	16.8,	318.5,	352.2,	-204.5,	95.5,	30	16.8,	347.4,	368.3,	-228.8,	89.0,
31	16.8,	365.8,	373.3,	-246.2,	79.8,	32	16.8,	373.0,	366.9,	-256.2,	68.2,
33	16.8,	368.9,	349.3,	-258.3,	54.5,	34	16.8,	353.6,	321.2,	-252.6,	39.1,
35	16.8,	327.6,	283.3,	-239.2,	22.5,	36	16.8,	291.6,	237.2,	-218.6,	5.3,

SOURCE ID: STCK62

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-238.3,	-15.7,	2	16.8,	352.2,	318.5,	-253.2,	-32.6,
3	16.8,	368.3,	347.4,	-260.5,	-48.6,	4	16.8,	373.3,	365.8,	-259.8,	-63.1,
5	16.8,	366.9,	373.0,	-251.2,	-75.6,	6	16.8,	349.3,	368.9,	-235.0,	-85.9,
7	16.8,	321.2,	353.6,	-211.7,	-93.6,	8	16.8,	283.3,	327.6,	-181.9,	-98.4,
9	16.8,	237.2,	291.6,	-146.6,	-100.0,	10	16.8,	279.9,	325.4,	-147.0,	-98.3,
11	16.8,	318.5,	352.2,	-143.5,	-94.0,	12	16.8,	347.4,	368.3,	-135.6,	-86.8,
13	16.8,	365.8,	373.3,	-123.6,	-76.9,	14	16.8,	373.0,	366.9,	-107.8,	-64.7,
15	16.8,	368.9,	349.3,	-88.8,	-50.5,	16	16.8,	353.6,	321.2,	-67.0,	-34.9,
17	16.8,	327.6,	283.3,	-43.2,	-18.1,	18	16.8,	291.6,	237.2,	-18.6,	-0.8,
19	16.8,	325.4,	279.9,	-41.6,	15.7,	20	16.8,	352.2,	318.5,	-65.2,	32.6,
21	16.8,	368.3,	347.4,	-86.9,	48.6,	22	16.8,	373.3,	365.8,	-106.0,	63.1,
23	16.8,	366.9,	373.0,	-121.8,	75.6,	24	16.8,	349.3,	368.9,	-133.9,	85.9,
25	16.8,	321.2,	353.6,	-142.0,	93.6,	26	16.8,	283.3,	327.6,	-145.7,	98.4,
27	16.8,	237.2,	291.6,	-145.0,	100.0,	28	16.8,	279.9,	325.4,	-178.3,	98.3,
29	16.8,	318.5,	352.2,	-208.7,	94.0,	30	16.8,	347.4,	368.3,	-232.7,	86.8,
31	16.8,	365.8,	373.3,	-249.7,	76.9,	32	16.8,	373.0,	366.9,	-259.1,	64.7,
33	16.8,	368.9,	349.3,	-260.6,	50.5,	34	16.8,	353.6,	321.2,	-254.2,	34.9,
35	16.8,	327.6,	283.3,	-240.0,	18.1,	36	16.8,	291.6,	237.2,	-218.6,	0.8,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK63

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-237.5,	-20.3,	2	16.8,	352.2,	318.5,	-251.6,	-37.0,
3	16.8,	368.3,	347.4,	-258.1,	-52.6,	4	16.8,	373.3,	365.8,	-256.8,	-66.6,
5	16.8,	366.9,	373.0,	-247.6,	-78.6,	6	16.8,	349.3,	368.9,	-231.0,	-88.2,
7	16.8,	321.2,	353.6,	-207.3,	-95.2,	8	16.8,	283.3,	327.6,	-177.3,	-99.2,
9	16.8,	237.2,	291.6,	-141.9,	-100.0,	10	16.8,	279.9,	325.4,	-142.4,	-97.5,
11	16.8,	318.5,	352.2,	-139.1,	-92.4,	12	16.8,	347.4,	368.3,	-131.5,	-84.4,
13	16.8,	365.8,	373.3,	-120.0,	-73.9,	14	16.8,	373.0,	366.9,	-104.8,	-61.1,
15	16.8,	368.9,	349.3,	-86.4,	-46.5,	16	16.8,	353.6,	321.2,	-65.4,	-30.4,
17	16.8,	327.6,	283.3,	-42.4,	-13.5,	18	16.8,	291.6,	237.2,	-18.6,	3.9,
19	16.8,	325.4,	279.9,	-42.4,	20.3,	20	16.8,	352.2,	318.5,	-66.9,	37.0,
21	16.8,	368.3,	347.4,	-89.3,	52.6,	22	16.8,	373.3,	365.8,	-109.0,	66.6,
23	16.8,	366.9,	373.0,	-125.4,	78.6,	24	16.8,	349.3,	368.9,	-138.0,	88.2,
25	16.8,	321.2,	353.6,	-146.4,	95.2,	26	16.8,	283.3,	327.6,	-150.3,	99.2,
27	16.8,	237.2,	291.6,	-149.7,	100.0,	28	16.8,	279.9,	325.4,	-183.0,	97.5,
29	16.8,	318.5,	352.2,	-213.1,	92.4,	30	16.8,	347.4,	368.3,	-236.8,	84.4,
31	16.8,	365.8,	373.3,	-253.3,	73.9,	32	16.8,	373.0,	366.9,	-262.1,	61.1,
33	16.8,	368.9,	349.3,	-262.9,	46.5,	34	16.8,	353.6,	321.2,	-255.8,	30.4,
35	16.8,	327.6,	283.3,	-240.8,	13.5,	36	16.8,	291.6,	237.2,	-218.6,	-3.9,

SOURCE ID: STCK64

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-236.1,	-28.2,	2	16.8,	352.2,	318.5,	-248.9,	-44.6,
3	16.8,	368.3,	347.4,	-254.1,	-59.6,	4	16.8,	373.3,	365.8,	-251.6,	-72.8,
5	16.8,	366.9,	373.0,	-241.5,	-83.8,	6	16.8,	349.3,	368.9,	-224.0,	-92.3,
7	16.8,	321.2,	353.6,	-199.7,	-97.9,	8	16.8,	283.3,	327.6,	-169.3,	-100.6,
9	16.8,	237.2,	291.6,	-133.8,	-100.0,	10	16.8,	279.9,	325.4,	-134.5,	-96.1,
11	16.8,	318.5,	352.2,	-131.5,	-89.6,	12	16.8,	347.4,	368.3,	-124.5,	-80.4,
13	16.8,	365.8,	373.3,	-113.8,	-68.7,	14	16.8,	373.0,	366.9,	-99.6,	-54.9,
15	16.8,	368.9,	349.3,	-82.4,	-39.5,	16	16.8,	353.6,	321.2,	-62.7,	-22.9,
17	16.8,	327.6,	283.3,	-41.0,	-5.5,	18	16.8,	291.6,	237.2,	-18.6,	12.0,
19	16.8,	325.4,	279.9,	-43.8,	28.2,	20	16.8,	352.2,	318.5,	-69.6,	44.6,
21	16.8,	368.3,	347.4,	-93.3,	59.6,	22	16.8,	373.3,	365.8,	-114.2,	72.8,
23	16.8,	366.9,	373.0,	-131.6,	83.8,	24	16.8,	349.3,	368.9,	-145.0,	92.3,
25	16.8,	321.2,	353.6,	-154.0,	97.9,	26	16.8,	283.3,	327.6,	-158.3,	100.6,
27	16.8,	237.2,	291.6,	-157.8,	100.0,	28	16.8,	279.9,	325.4,	-190.9,	96.1,
29	16.8,	318.5,	352.2,	-220.7,	89.6,	30	16.8,	347.4,	368.3,	-243.8,	80.4,
31	16.8,	365.8,	373.3,	-259.5,	68.7,	32	16.8,	373.0,	366.9,	-267.3,	54.9,
33	16.8,	368.9,	349.3,	-266.9,	39.5,	34	16.8,	353.6,	321.2,	-258.5,	22.9,
35	16.8,	327.6,	283.3,	-242.2,	5.5,	36	16.8,	291.6,	237.2,	-218.6,	-12.0,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK65

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-235.3,	-32.5,	2	16.8,	352.2,	318.5,	-247.4,	-48.6,
3	16.8,	368.3,	347.4,	-251.9,	-63.3,	4	16.8,	373.3,	365.8,	-248.8,	-76.1,
5	16.8,	366.9,	373.0,	-238.1,	-86.6,	6	16.8,	349.3,	368.9,	-220.2,	-94.4,
7	16.8,	321.2,	353.6,	-195.6,	-99.4,	8	16.8,	283.3,	327.6,	-165.1,	-101.3,
9	16.8,	237.2,	291.6,	-129.5,	-100.0,	10	16.8,	279.9,	325.4,	-130.2,	-95.4,
11	16.8,	318.5,	352.2,	-127.5,	-88.1,	12	16.8,	347.4,	368.3,	-120.8,	-78.2,
13	16.8,	365.8,	373.3,	-110.5,	-65.9,	14	16.8,	373.0,	366.9,	-96.8,	-51.6,
15	16.8,	368.9,	349.3,	-80.2,	-35.8,	16	16.8,	353.6,	321.2,	-61.2,	-18.8,
17	16.8,	327.6,	283.3,	-40.3,	-1.3,	18	16.8,	291.6,	237.2,	-18.6,	16.3,
19	16.8,	325.4,	279.9,	-44.5,	32.5,	20	16.8,	352.2,	318.5,	-71.1,	48.6,
21	16.8,	368.3,	347.4,	-95.5,	63.3,	22	16.8,	373.3,	365.8,	-117.0,	76.1,
23	16.8,	366.9,	373.0,	-134.9,	86.6,	24	16.8,	349.3,	368.9,	-148.7,	94.4,
25	16.8,	321.2,	353.6,	-158.0,	99.4,	26	16.8,	283.3,	327.6,	-162.5,	101.3,
27	16.8,	237.2,	291.6,	-162.1,	100.0,	28	16.8,	279.9,	325.4,	-195.1,	95.4,
29	16.8,	318.5,	352.2,	-224.8,	88.1,	30	16.8,	347.4,	368.3,	-247.5,	78.2,
31	16.8,	365.8,	373.3,	-262.8,	65.9,	32	16.8,	373.0,	366.9,	-270.1,	51.6,
33	16.8,	368.9,	349.3,	-269.1,	35.8,	34	16.8,	353.6,	321.2,	-260.0,	18.8,
35	16.8,	327.6,	283.3,	-243.0,	1.3,	36	16.8,	291.6,	237.2,	-218.6,	-16.3,

SOURCE ID: STCK66

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-234.6,	-36.9,	2	16.8,	352.2,	318.5,	-245.9,	-52.9,
3	16.8,	368.3,	347.4,	-249.7,	-67.2,	4	16.8,	373.3,	365.8,	-245.9,	-79.6,
5	16.8,	366.9,	373.0,	-234.7,	-89.5,	6	16.8,	349.3,	368.9,	-216.3,	-96.7,
7	16.8,	321.2,	353.6,	-191.4,	-100.9,	8	16.8,	283.3,	327.6,	-160.7,	-102.1,
9	16.8,	237.2,	291.6,	-125.0,	-100.0,	10	16.8,	279.9,	325.4,	-125.8,	-94.6,
11	16.8,	318.5,	352.2,	-123.2,	-86.6,	12	16.8,	347.4,	368.3,	-116.9,	-76.0,
13	16.8,	365.8,	373.3,	-107.1,	-63.0,	14	16.8,	373.0,	366.9,	-94.0,	-48.2,
15	16.8,	368.9,	349.3,	-78.0,	-31.9,	16	16.8,	353.6,	321.2,	-59.6,	-14.6,
17	16.8,	327.6,	283.3,	-39.5,	3.1,	18	16.8,	291.6,	237.2,	-18.6,	20.8,
19	16.8,	325.4,	279.9,	-45.3,	36.9,	20	16.8,	352.2,	318.5,	-72.6,	52.9,
21	16.8,	368.3,	347.4,	-97.7,	67.2,	22	16.8,	373.3,	365.8,	-119.8,	79.6,
23	16.8,	366.9,	373.0,	-138.3,	89.5,	24	16.8,	349.3,	368.9,	-152.6,	96.7,
25	16.8,	321.2,	353.6,	-162.2,	100.9,	26	16.8,	283.3,	327.6,	-166.9,	102.1,
27	16.8,	237.2,	291.6,	-166.6,	100.0,	28	16.8,	279.9,	325.4,	-199.6,	94.6,
29	16.8,	318.5,	352.2,	-229.0,	86.6,	30	16.8,	347.4,	368.3,	-251.4,	76.0,
31	16.8,	365.8,	373.3,	-266.2,	63.0,	32	16.8,	373.0,	366.9,	-272.9,	48.2,
33	16.8,	368.9,	349.3,	-271.4,	31.9,	34	16.8,	353.6,	321.2,	-261.5,	14.6,
35	16.8,	327.6,	283.3,	-243.8,	-3.1,	36	16.8,	291.6,	237.2,	-218.6,	-20.8,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK67

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-233.7,	-41.5,	2	16.8,	352.2,	318.5,	-244.2,	-57.3,
3	16.8,	368.3,	347.4,	-247.3,	-71.3,	4	16.8,	373.3,	365.8,	-242.9,	-83.2,
5	16.8,	366.9,	373.0,	-231.1,	-92.5,	6	16.8,	349.3,	368.9,	-212.3,	-99.0,
7	16.8,	321.2,	353.6,	-187.0,	-102.5,	8	16.8,	283.3,	327.6,	-156.0,	-103.0,
9	16.8,	237.2,	291.6,	-120.3,	-100.0,	10	16.8,	279.9,	325.4,	-121.2,	-93.8,
11	16.8,	318.5,	352.2,	-118.8,	-85.0,	12	16.8,	347.4,	368.3,	-112.8,	-73.6,
13	16.8,	365.8,	373.3,	-103.5,	-60.0,	14	16.8,	373.0,	366.9,	-90.9,	-44.6,
15	16.8,	368.9,	349.3,	-75.6,	-27.8,	16	16.8,	353.6,	321.2,	-58.0,	-10.2,
17	16.8,	327.6,	283.3,	-38.7,	7.8,	18	16.8,	291.6,	237.2,	-18.6,	25.5,
19	16.8,	325.4,	279.9,	-46.1,	41.5,	20	16.8,	352.2,	318.5,	-74.2,	57.3,
21	16.8,	368.3,	347.4,	-100.1,	71.3,	22	16.8,	373.3,	365.8,	-122.9,	83.2,
23	16.8,	366.9,	373.0,	-141.9,	92.5,	24	16.8,	349.3,	368.9,	-156.7,	99.0,
25	16.8,	321.2,	353.6,	-166.7,	102.5,	26	16.8,	283.3,	327.6,	-171.6,	103.0,
27	16.8,	237.2,	291.6,	-171.3,	100.0,	28	16.8,	279.9,	325.4,	-204.2,	93.8,
29	16.8,	318.5,	352.2,	-233.4,	85.0,	30	16.8,	347.4,	368.3,	-255.5,	73.6,
31	16.8,	365.8,	373.3,	-269.8,	60.0,	32	16.8,	373.0,	366.9,	-276.0,	44.6,
33	16.8,	368.9,	349.3,	-273.7,	27.8,	34	16.8,	353.6,	321.2,	-263.1,	10.2,
35	16.8,	327.6,	283.3,	-244.6,	-7.8,	36	16.8,	291.6,	237.2,	-218.6,	-25.5,

SOURCE ID: STCK68

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-233.2,	-44.7,	2	16.8,	352.2,	318.5,	-243.2,	-60.3,
3	16.8,	368.3,	347.4,	-245.7,	-74.1,	4	16.8,	373.3,	365.8,	-240.9,	-85.6,
5	16.8,	366.9,	373.0,	-228.7,	-94.6,	6	16.8,	349.3,	368.9,	-209.5,	-100.6,
7	16.8,	321.2,	353.6,	-184.0,	-103.6,	8	16.8,	283.3,	327.6,	-152.9,	-103.5,
9	16.8,	237.2,	291.6,	-117.1,	-100.0,	10	16.8,	279.9,	325.4,	-118.0,	-93.2,
11	16.8,	318.5,	352.2,	-115.8,	-83.9,	12	16.8,	347.4,	368.3,	-110.1,	-72.0,
13	16.8,	365.8,	373.3,	-101.0,	-58.0,	14	16.8,	373.0,	366.9,	-88.9,	-42.1,
15	16.8,	368.9,	349.3,	-74.0,	-25.0,	16	16.8,	353.6,	321.2,	-56.9,	-7.2,
17	16.8,	327.6,	283.3,	-38.1,	10.9,	18	16.8,	291.6,	237.2,	-18.6,	28.7,
19	16.8,	325.4,	279.9,	-46.7,	44.7,	20	16.8,	352.2,	318.5,	-75.3,	60.3,
21	16.8,	368.3,	347.4,	-101.7,	74.1,	22	16.8,	373.3,	365.8,	-124.9,	85.6,
23	16.8,	366.9,	373.0,	-144.4,	94.6,	24	16.8,	349.3,	368.9,	-159.4,	100.6,
25	16.8,	321.2,	353.6,	-169.7,	103.6,	26	16.8,	283.3,	327.6,	-174.7,	103.5,
27	16.8,	237.2,	291.6,	-174.5,	100.0,	28	16.8,	279.9,	325.4,	-207.3,	93.2,
29	16.8,	318.5,	352.2,	-236.4,	83.9,	30	16.8,	347.4,	368.3,	-258.2,	72.0,
31	16.8,	365.8,	373.3,	-272.3,	58.0,	32	16.8,	373.0,	366.9,	-278.0,	42.1,
33	16.8,	368.9,	349.3,	-275.3,	25.0,	34	16.8,	353.6,	321.2,	-264.2,	7.2,
35	16.8,	327.6,	283.3,	-245.1,	-10.9,	36	16.8,	291.6,	237.2,	-218.6,	-28.7,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK69

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-232.4,	-49.3,	2	16.8,	352.2,	318.5,	-241.6,	-64.7,
3	16.8,	368.3,	347.4,	-243.4,	-78.1,	4	16.8,	373.3,	365.8,	-237.8,	-89.2,
5	16.8,	366.9,	373.0,	-225.1,	-97.6,	6	16.8,	349.3,	368.9,	-205.4,	-103.0,
7	16.8,	321.2,	353.6,	-179.6,	-105.2,	8	16.8,	283.3,	327.6,	-148.3,	-104.3,
9	16.8,	237.2,	291.6,	-112.5,	-100.0,	10	16.8,	279.9,	325.4,	-113.4,	-92.4,
11	16.8,	318.5,	352.2,	-111.4,	-82.3,	12	16.8,	347.4,	368.3,	-106.0,	-69.7,
13	16.8,	365.8,	373.3,	-97.4,	-55.0,	14	16.8,	373.0,	366.9,	-85.9,	-38.5,
15	16.8,	368.9,	349.3,	-71.7,	-21.0,	16	16.8,	353.6,	321.2,	-55.3,	-2.8,
17	16.8,	327.6,	283.3,	-37.3,	15.5,	18	16.8,	291.6,	237.2,	-18.6,	33.4,
19	16.8,	325.4,	279.9,	-47.5,	49.3,	20	16.8,	352.2,	318.5,	-76.9,	64.7,
21	16.8,	368.3,	347.4,	-104.0,	78.1,	22	16.8,	373.3,	365.8,	-127.9,	89.2,
23	16.8,	366.9,	373.0,	-148.0,	97.6,	24	16.8,	349.3,	368.9,	-163.5,	103.0,
25	16.8,	321.2,	353.6,	-174.1,	105.2,	26	16.8,	283.3,	327.6,	-179.3,	104.3,
27	16.8,	237.2,	291.6,	-179.2,	100.0,	28	16.8,	279.9,	325.4,	-212.0,	92.4,
29	16.8,	318.5,	352.2,	-240.8,	82.3,	30	16.8,	347.4,	368.3,	-262.3,	69.7,
31	16.8,	365.8,	373.3,	-275.9,	55.0,	32	16.8,	373.0,	366.9,	-281.0,	38.5,
33	16.8,	368.9,	349.3,	-277.7,	21.0,	34	16.8,	353.6,	321.2,	-265.8,	2.8,
35	16.8,	327.6,	283.3,	-246.0,	-15.5,	36	16.8,	291.6,	237.2,	-218.6,	-33.4,

SOURCE ID: STCK70

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-231.6,	-53.9,	2	16.8,	352.2,	318.5,	-239.9,	-69.1,
3	16.8,	368.3,	347.4,	-241.1,	-82.2,	4	16.8,	373.3,	365.8,	-234.8,	-92.8,
5	16.8,	366.9,	373.0,	-221.5,	-100.6,	6	16.8,	349.3,	368.9,	-201.4,	-105.3,
7	16.8,	321.2,	353.6,	-175.2,	-106.8,	8	16.8,	283.3,	327.6,	-143.7,	-105.1,
9	16.8,	237.2,	291.6,	-107.8,	-100.0,	10	16.8,	279.9,	325.4,	-108.8,	-91.6,
11	16.8,	318.5,	352.2,	-107.0,	-80.7,	12	16.8,	347.4,	368.3,	-102.0,	-67.3,
13	16.8,	365.8,	373.3,	-93.8,	-51.9,	14	16.8,	373.0,	366.9,	-82.8,	-35.0,
15	16.8,	368.9,	349.3,	-69.3,	-16.9,	16	16.8,	353.6,	321.2,	-53.7,	1.6,
17	16.8,	327.6,	283.3,	-36.5,	20.2,	18	16.8,	291.6,	237.2,	-18.6,	38.0,
19	16.8,	325.4,	279.9,	-48.3,	53.9,	20	16.8,	352.2,	318.5,	-78.5,	69.1,
21	16.8,	368.3,	347.4,	-106.3,	82.2,	22	16.8,	373.3,	365.8,	-130.9,	92.8,
23	16.8,	366.9,	373.0,	-151.6,	100.6,	24	16.8,	349.3,	368.9,	-167.6,	105.3,
25	16.8,	321.2,	353.6,	-178.5,	106.8,	26	16.8,	283.3,	327.6,	-184.0,	105.1,
27	16.8,	237.2,	291.6,	-183.9,	100.0,	28	16.8,	279.9,	325.4,	-216.6,	91.6,
29	16.8,	318.5,	352.2,	-245.2,	80.7,	30	16.8,	347.4,	368.3,	-266.4,	67.3,
31	16.8,	365.8,	373.3,	-279.4,	51.9,	32	16.8,	373.0,	366.9,	-284.0,	35.0,
33	16.8,	368.9,	349.3,	-280.0,	16.9,	34	16.8,	353.6,	321.2,	-267.4,	-1.6,
35	16.8,	327.6,	283.3,	-246.8,	-20.2,	36	16.8,	291.6,	237.2,	-218.6,	-38.0,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK71

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-230.2,	-61.8,	2	16.8,	352.2,	318.5,	-237.2,	-76.7,
3	16.8,	368.3,	347.4,	-237.0,	-89.2,	4	16.8,	373.3,	365.8,	-229.6,	-99.0,
5	16.8,	366.9,	373.0,	-215.3,	-105.8,	6	16.8,	349.3,	368.9,	-194.4,	-109.4,
7	16.8,	321.2,	353.6,	-167.6,	-109.6,	8	16.8,	283.3,	327.6,	-135.7,	-106.5,
9	16.8,	237.2,	291.6,	-99.7,	-100.0,	10	16.8,	279.9,	325.4,	-100.8,	-90.2,
11	16.8,	318.5,	352.2,	-99.4,	-77.9,	12	16.8,	347.4,	368.3,	-95.0,	-63.3,
13	16.8,	365.8,	373.3,	-87.6,	-46.8,	14	16.8,	373.0,	366.9,	-77.7,	-28.8,
15	16.8,	368.9,	349.3,	-65.3,	-9.9,	16	16.8,	353.6,	321.2,	-51.0,	9.2,
17	16.8,	327.6,	283.3,	-35.1,	28.1,	18	16.8,	291.6,	237.2,	-18.6,	46.1,
19	16.8,	325.4,	279.9,	-49.7,	61.8,	20	16.8,	352.2,	318.5,	-81.3,	76.7,
21	16.8,	368.3,	347.4,	-110.4,	89.2,	22	16.8,	373.3,	365.8,	-136.1,	99.0,
23	16.8,	366.9,	373.0,	-157.7,	105.8,	24	16.8,	349.3,	368.9,	-174.5,	109.4,
25	16.8,	321.2,	353.6,	-186.0,	109.6,	26	16.8,	283.3,	327.6,	-191.9,	106.5,
27	16.8,	237.2,	291.6,	-191.9,	100.0,	28	16.8,	279.9,	325.4,	-224.5,	90.2,
29	16.8,	318.5,	352.2,	-252.8,	77.9,	30	16.8,	347.4,	368.3,	-273.4,	63.3,
31	16.8,	365.8,	373.3,	-285.6,	46.8,	32	16.8,	373.0,	366.9,	-289.2,	28.8,
33	16.8,	368.9,	349.3,	-284.0,	9.9,	34	16.8,	353.6,	321.2,	-270.2,	-9.2,
35	16.8,	327.6,	283.3,	-248.2,	-28.1,	36	16.8,	291.6,	237.2,	-218.6,	-46.1,

SOURCE ID: STCK72

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-229.5,	-65.7,	2	16.8,	352.2,	318.5,	-235.8,	-80.4,
3	16.8,	368.3,	347.4,	-235.0,	-92.6,	4	16.8,	373.3,	365.8,	-227.1,	-102.0,
5	16.8,	366.9,	373.0,	-212.3,	-108.3,	6	16.8,	349.3,	368.9,	-191.0,	-111.3,
7	16.8,	321.2,	353.6,	-163.9,	-111.0,	8	16.8,	283.3,	327.6,	-131.8,	-107.2,
9	16.8,	237.2,	291.6,	-95.8,	-100.0,	10	16.8,	279.9,	325.4,	-97.0,	-89.5,
11	16.8,	318.5,	352.2,	-95.7,	-76.6,	12	16.8,	347.4,	368.3,	-91.6,	-61.3,
13	16.8,	365.8,	373.3,	-84.6,	-44.2,	14	16.8,	373.0,	366.9,	-75.1,	-25.8,
15	16.8,	368.9,	349.3,	-63.3,	-6.5,	16	16.8,	353.6,	321.2,	-49.6,	12.9,
17	16.8,	327.6,	283.3,	-34.4,	32.0,	18	16.8,	291.6,	237.2,	-18.6,	50.1,
19	16.8,	325.4,	279.9,	-50.4,	65.7,	20	16.8,	352.2,	318.5,	-82.6,	80.4,
21	16.8,	368.3,	347.4,	-112.4,	92.6,	22	16.8,	373.3,	365.8,	-138.7,	102.0,
23	16.8,	366.9,	373.0,	-160.8,	108.3,	24	16.8,	349.3,	368.9,	-178.0,	111.3,
25	16.8,	321.2,	353.6,	-189.8,	111.0,	26	16.8,	283.3,	327.6,	-195.8,	107.2,
27	16.8,	237.2,	291.6,	-195.9,	100.0,	28	16.8,	279.9,	325.4,	-228.4,	89.5,
29	16.8,	318.5,	352.2,	-256.5,	76.6,	30	16.8,	347.4,	368.3,	-276.8,	61.3,
31	16.8,	365.8,	373.3,	-288.7,	44.2,	32	16.8,	373.0,	366.9,	-291.8,	25.8,
33	16.8,	368.9,	349.3,	-286.0,	6.5,	34	16.8,	353.6,	321.2,	-271.6,	-12.9,
35	16.8,	327.6,	283.3,	-248.9,	-32.0,	36	16.8,	291.6,	237.2,	-218.6,	-50.1,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK73

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-228.7,	-70.0,	2	16.8,	352.2,	318.5,	-234.4,	-84.4,
3	16.8,	368.3,	347.4,	-232.9,	-96.3,	4	16.8,	373.3,	365.8,	-224.3,	-105.3,
5	16.8,	366.9,	373.0,	-209.0,	-111.1,	6	16.8,	349.3,	368.9,	-187.2,	-113.5,
7	16.8,	321.2,	353.6,	-159.8,	-112.4,	8	16.8,	283.3,	327.6,	-127.6,	-108.0,
9	16.8,	237.2,	291.6,	-91.4,	-100.0,	10	16.8,	279.9,	325.4,	-92.7,	-88.8,
11	16.8,	318.5,	352.2,	-91.7,	-75.1,	12	16.8,	347.4,	368.3,	-87.8,	-59.2,
13	16.8,	365.8,	373.3,	-81.3,	-41.4,	14	16.8,	373.0,	366.9,	-72.4,	-22.5,
15	16.8,	368.9,	349.3,	-61.2,	-2.8,	16	16.8,	353.6,	321.2,	-48.2,	17.0,
17	16.8,	327.6,	283.3,	-33.7,	36.2,	18	16.8,	291.6,	237.2,	-18.6,	54.4,
19	16.8,	325.4,	279.9,	-51.2,	70.0,	20	16.8,	352.2,	318.5,	-84.1,	84.4,
21	16.8,	368.3,	347.4,	-114.5,	96.3,	22	16.8,	373.3,	365.8,	-141.4,	105.3,
23	16.8,	366.9,	373.0,	-164.1,	111.1,	24	16.8,	349.3,	368.9,	-181.7,	113.5,
25	16.8,	321.2,	353.6,	-193.8,	112.4,	26	16.8,	283.3,	327.6,	-200.0,	108.0,
27	16.8,	237.2,	291.6,	-200.2,	100.0,	28	16.8,	279.9,	325.4,	-232.7,	88.8,
29	16.8,	318.5,	352.2,	-260.5,	75.1,	30	16.8,	347.4,	368.3,	-280.5,	59.2,
31	16.8,	365.8,	373.3,	-291.9,	41.4,	32	16.8,	373.0,	366.9,	-294.5,	22.5,
33	16.8,	368.9,	349.3,	-288.2,	2.8,	34	16.8,	353.6,	321.2,	-273.0,	-17.0,
35	16.8,	327.6,	283.3,	-249.6,	-36.2,	36	16.8,	291.6,	237.2,	-218.6,	-54.4,

SOURCE ID: STCK74

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-228.0,	-74.0,	2	16.8,	352.2,	318.5,	-233.0,	-88.3,
3	16.8,	368.3,	347.4,	-230.8,	-99.9,	4	16.8,	373.3,	365.8,	-221.7,	-108.5,
5	16.8,	366.9,	373.0,	-205.8,	-113.7,	6	16.8,	349.3,	368.9,	-183.7,	-115.5,
7	16.8,	321.2,	353.6,	-156.0,	-113.8,	8	16.8,	283.3,	327.6,	-123.5,	-108.7,
9	16.8,	237.2,	291.6,	-87.3,	-100.0,	10	16.8,	279.9,	325.4,	-88.6,	-88.1,
11	16.8,	318.5,	352.2,	-87.8,	-73.7,	12	16.8,	347.4,	368.3,	-84.2,	-57.1,
13	16.8,	365.8,	373.3,	-78.2,	-38.8,	14	16.8,	373.0,	366.9,	-69.7,	-19.3,
15	16.8,	368.9,	349.3,	-59.1,	0.8,	16	16.8,	353.6,	321.2,	-46.8,	20.9,
17	16.8,	327.6,	283.3,	-32.9,	40.3,	18	16.8,	291.6,	237.2,	-18.6,	58.5,
19	16.8,	325.4,	279.9,	-51.9,	74.0,	20	16.8,	352.2,	318.5,	-85.5,	88.3,
21	16.8,	368.3,	347.4,	-116.6,	99.9,	22	16.8,	373.3,	365.8,	-144.1,	108.5,
23	16.8,	366.9,	373.0,	-167.2,	113.7,	24	16.8,	349.3,	368.9,	-185.3,	115.5,
25	16.8,	321.2,	353.6,	-197.7,	113.8,	26	16.8,	283.3,	327.6,	-204.1,	108.7,
27	16.8,	237.2,	291.6,	-204.3,	100.0,	28	16.8,	279.9,	325.4,	-236.7,	88.1,
29	16.8,	318.5,	352.2,	-264.4,	73.7,	30	16.8,	347.4,	368.3,	-284.1,	57.1,
31	16.8,	365.8,	373.3,	-295.1,	38.8,	32	16.8,	373.0,	366.9,	-297.2,	19.3,
33	16.8,	368.9,	349.3,	-290.2,	-0.8,	34	16.8,	353.6,	321.2,	-274.4,	-20.9,
35	16.8,	327.6,	283.3,	-250.3,	-40.3,	36	16.8,	291.6,	237.2,	-218.6,	-58.5,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK75

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-227.2,	-78.5,	2	16.8,	352.2,	318.5,	-231.4,	-92.6,
3	16.8,	368.3,	347.4,	-228.6,	-103.8,	4	16.8,	373.3,	365.8,	-218.8,	-111.9,
5	16.8,	366.9,	373.0,	-202.4,	-116.6,	6	16.8,	349.3,	368.9,	-179.8,	-117.8,
7	16.8,	321.2,	353.6,	-151.7,	-115.4,	8	16.8,	283.3,	327.6,	-119.1,	-109.5,
9	16.8,	237.2,	291.6,	-82.8,	-100.0,	10	16.8,	279.9,	325.4,	-84.2,	-87.3,
11	16.8,	318.5,	352.2,	-83.5,	-72.2,	12	16.8,	347.4,	368.3,	-80.3,	-54.9,
13	16.8,	365.8,	373.3,	-74.7,	-35.9,	14	16.8,	373.0,	366.9,	-66.8,	-15.8,
15	16.8,	368.9,	349.3,	-56.9,	4.7,	16	16.8,	353.6,	321.2,	-45.2,	25.1,
17	16.8,	327.6,	283.3,	-32.2,	44.7,	18	16.8,	291.6,	237.2,	-18.6,	63.0,
19	16.8,	325.4,	279.9,	-52.7,	78.5,	20	16.8,	352.2,	318.5,	-87.1,	92.6,
21	16.8,	368.3,	347.4,	-118.8,	103.8,	22	16.8,	373.3,	365.8,	-147.0,	111.9,
23	16.8,	366.9,	373.0,	-170.7,	116.6,	24	16.8,	349.3,	368.9,	-189.2,	117.8,
25	16.8,	321.2,	353.6,	-201.9,	115.4,	26	16.8,	283.3,	327.6,	-208.5,	109.5,
27	16.8,	237.2,	291.6,	-208.8,	100.0,	28	16.8,	279.9,	325.4,	-241.2,	87.3,
29	16.8,	318.5,	352.2,	-268.7,	72.2,	30	16.8,	347.4,	368.3,	-288.0,	54.9,
31	16.8,	365.8,	373.3,	-298.6,	35.9,	32	16.8,	373.0,	366.9,	-300.1,	15.8,
33	16.8,	368.9,	349.3,	-292.5,	-4.7,	34	16.8,	353.6,	321.2,	-276.0,	-25.1,
35	16.8,	327.6,	283.3,	-251.1,	-44.7,	36	16.8,	291.6,	237.2,	-218.6,	-63.0,

SOURCE ID: STCK76

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-226.5,	-82.5,	2	16.8,	352.2,	318.5,	-230.0,	-96.4,
3	16.8,	368.3,	347.4,	-226.5,	-107.4,	4	16.8,	373.3,	365.8,	-216.1,	-115.1,
5	16.8,	366.9,	373.0,	-199.2,	-119.3,	6	16.8,	349.3,	368.9,	-176.2,	-119.9,
7	16.8,	321.2,	353.6,	-147.9,	-116.8,	8	16.8,	283.3,	327.6,	-115.0,	-110.2,
9	16.8,	237.2,	291.6,	-78.7,	-100.0,	10	16.8,	279.9,	325.4,	-80.1,	-86.6,
11	16.8,	318.5,	352.2,	-79.7,	-70.8,	12	16.8,	347.4,	368.3,	-76.8,	-52.8,
13	16.8,	365.8,	373.3,	-71.6,	-33.2,	14	16.8,	373.0,	366.9,	-64.2,	-12.7,
15	16.8,	368.9,	349.3,	-54.8,	8.3,	16	16.8,	353.6,	321.2,	-43.8,	29.0,
17	16.8,	327.6,	283.3,	-31.4,	48.8,	18	16.8,	291.6,	237.2,	-18.6,	67.1,
19	16.8,	325.4,	279.9,	-53.4,	82.5,	20	16.8,	352.2,	318.5,	-88.5,	96.4,
21	16.8,	368.3,	347.4,	-120.9,	107.4,	22	16.8,	373.3,	365.8,	-149.6,	115.1,
23	16.8,	366.9,	373.0,	-173.8,	119.3,	24	16.8,	349.3,	368.9,	-192.7,	119.9,
25	16.8,	321.2,	353.6,	-205.8,	116.8,	26	16.8,	283.3,	327.6,	-212.6,	110.2,
27	16.8,	237.2,	291.6,	-212.9,	100.0,	28	16.8,	279.9,	325.4,	-245.2,	86.6,
29	16.8,	318.5,	352.2,	-272.5,	70.8,	30	16.8,	347.4,	368.3,	-291.6,	52.8,
31	16.8,	365.8,	373.3,	-301.7,	33.2,	32	16.8,	373.0,	366.9,	-302.7,	12.7,
33	16.8,	368.9,	349.3,	-294.5,	-8.3,	34	16.8,	353.6,	321.2,	-277.4,	-29.0,
35	16.8,	327.6,	283.3,	-251.8,	-48.8,	36	16.8,	291.6,	237.2,	-218.6,	-67.1,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK77

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-225.7,	-87.0,	2	16.8,	352.2,	318.5,	-228.5,	-100.7,
3	16.8,	368.3,	347.4,	-224.2,	-111.3,	4	16.8,	373.3,	365.8,	-213.2,	-118.5,
5	16.8,	366.9,	373.0,	-195.7,	-122.2,	6	16.8,	349.3,	368.9,	-172.3,	-122.1,
7	16.8,	321.2,	353.6,	-143.6,	-118.3,	8	16.8,	283.3,	327.6,	-110.6,	-111.0,
9	16.8,	237.2,	291.6,	-74.2,	-100.0,	10	16.8,	279.9,	325.4,	-75.7,	-85.8,
11	16.8,	318.5,	352.2,	-75.4,	-69.2,	12	16.8,	347.4,	368.3,	-72.9,	-50.5,
13	16.8,	365.8,	373.3,	-68.1,	-30.4,	14	16.8,	373.0,	366.9,	-61.3,	-9.2,
15	16.8,	368.9,	349.3,	-52.5,	12.2,	16	16.8,	353.6,	321.2,	-42.2,	33.2,
17	16.8,	327.6,	283.3,	-30.7,	53.2,	18	16.8,	291.6,	237.2,	-18.6,	71.6,
19	16.8,	325.4,	279.9,	-54.2,	87.0,	20	16.8,	352.2,	318.5,	-90.0,	100.7,
21	16.8,	368.3,	347.4,	-123.1,	111.3,	22	16.8,	373.3,	365.8,	-152.5,	118.5,
23	16.8,	366.9,	373.0,	-177.3,	122.2,	24	16.8,	349.3,	368.9,	-196.6,	122.1,
25	16.8,	321.2,	353.6,	-210.0,	118.3,	26	16.8,	283.3,	327.6,	-217.0,	111.0,
27	16.8,	237.2,	291.6,	-217.4,	100.0,	28	16.8,	279.9,	325.4,	-249.7,	85.8,
29	16.8,	318.5,	352.2,	-276.8,	69.2,	30	16.8,	347.4,	368.3,	-295.5,	50.5,
31	16.8,	365.8,	373.3,	-305.2,	30.4,	32	16.8,	373.0,	366.9,	-305.6,	9.2,
33	16.8,	368.9,	349.3,	-296.8,	-12.2,	34	16.8,	353.6,	321.2,	-278.9,	-33.2,
35	16.8,	327.6,	283.3,	-252.6,	-53.2,	36	16.8,	291.6,	237.2,	-218.6,	-71.6,

SOURCE ID: STCK78

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-224.2,	-95.5,	2	16.8,	352.2,	318.5,	-225.5,	-108.8,
3	16.8,	368.3,	347.4,	-219.9,	-118.8,	4	16.8,	373.3,	365.8,	-207.7,	-125.1,
5	16.8,	366.9,	373.0,	-189.1,	-127.7,	6	16.8,	349.3,	368.9,	-164.8,	-126.4,
7	16.8,	321.2,	353.6,	-135.5,	-121.3,	8	16.8,	283.3,	327.6,	-102.1,	-112.5,
9	16.8,	237.2,	291.6,	-65.5,	-100.0,	10	16.8,	279.9,	325.4,	-67.2,	-84.3,
11	16.8,	318.5,	352.2,	-67.3,	-66.3,	12	16.8,	347.4,	368.3,	-65.4,	-46.2,
13	16.8,	365.8,	373.3,	-61.5,	-24.8,	14	16.8,	373.0,	366.9,	-55.7,	-2.6,
15	16.8,	368.9,	349.3,	-48.2,	19.7,	16	16.8,	353.6,	321.2,	-39.3,	41.3,
17	16.8,	327.6,	283.3,	-29.2,	61.7,	18	16.8,	291.6,	237.2,	-18.6,	80.3,
19	16.8,	325.4,	279.9,	-55.7,	95.5,	20	16.8,	352.2,	318.5,	-93.0,	108.8,
21	16.8,	368.3,	347.4,	-127.5,	118.8,	22	16.8,	373.3,	365.8,	-158.1,	125.1,
23	16.8,	366.9,	373.0,	-183.9,	127.7,	24	16.8,	349.3,	368.9,	-204.1,	126.4,
25	16.8,	321.2,	353.6,	-218.1,	121.3,	26	16.8,	283.3,	327.6,	-225.5,	112.5,
27	16.8,	237.2,	291.6,	-226.1,	100.0,	28	16.8,	279.9,	325.4,	-258.2,	84.3,
29	16.8,	318.5,	352.2,	-284.9,	66.3,	30	16.8,	347.4,	368.3,	-302.9,	46.2,
31	16.8,	365.8,	373.3,	-311.8,	24.8,	32	16.8,	373.0,	366.9,	-311.2,	2.6,
33	16.8,	368.9,	349.3,	-301.1,	-19.7,	34	16.8,	353.6,	321.2,	-281.9,	-41.3,
35	16.8,	327.6,	283.3,	-254.1,	-61.7,	36	16.8,	291.6,	237.2,	-218.6,	-80.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK79

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-223.5,	-99.5,	2	16.8,	352.2,	318.5,	-224.1,	-112.7,
3	16.8,	368.3,	347.4,	-217.9,	-122.3,	4	16.8,	373.3,	365.8,	-205.0,	-128.3,
5	16.8,	366.9,	373.0,	-186.0,	-130.4,	6	16.8,	349.3,	368.9,	-161.2,	-128.5,
7	16.8,	321.2,	353.6,	-131.6,	-122.7,	8	16.8,	283.3,	327.6,	-98.0,	-113.2,
9	16.8,	237.2,	291.6,	-61.4,	-100.0,	10	16.8,	279.9,	325.4,	-63.1,	-83.6,
11	16.8,	318.5,	352.2,	-63.4,	-64.8,	12	16.8,	347.4,	368.3,	-61.8,	-44.2,
13	16.8,	365.8,	373.3,	-58.3,	-22.2,	14	16.8,	373.0,	366.9,	-53.1,	0.6,
15	16.8,	368.9,	349.3,	-46.2,	23.2,	16	16.8,	353.6,	321.2,	-37.9,	45.2,
17	16.8,	327.6,	283.3,	-28.4,	65.8,	18	16.8,	291.6,	237.2,	-18.6,	84.4,
19	16.8,	325.4,	279.9,	-56.4,	99.5,	20	16.8,	352.2,	318.5,	-94.4,	112.7,
21	16.8,	368.3,	347.4,	-129.5,	122.3,	22	16.8,	373.3,	365.8,	-160.7,	128.3,
23	16.8,	366.9,	373.0,	-187.1,	130.4,	24	16.8,	349.3,	368.9,	-207.7,	128.5,
25	16.8,	321.2,	353.6,	-222.0,	122.7,	26	16.8,	283.3,	327.6,	-229.6,	113.2,
27	16.8,	237.2,	291.6,	-230.2,	100.0,	28	16.8,	279.9,	325.4,	-262.2,	83.6,
29	16.8,	318.5,	352.2,	-288.8,	64.8,	30	16.8,	347.4,	368.3,	-306.5,	44.2,
31	16.8,	365.8,	373.3,	-315.0,	22.2,	32	16.8,	373.0,	366.9,	-313.8,	-0.6,
33	16.8,	368.9,	349.3,	-303.2,	-23.2,	34	16.8,	353.6,	321.2,	-283.3,	-45.2,
35	16.8,	327.6,	283.3,	-254.8,	-65.8,	36	16.8,	291.6,	237.2,	-218.6,	-84.4,

SOURCE ID: STCK80

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-222.8,	-103.4,	2	16.8,	352.2,	318.5,	-222.7,	-116.4,
3	16.8,	368.3,	347.4,	-215.9,	-125.8,	4	16.8,	373.3,	365.8,	-202.5,	-131.3,
5	16.8,	366.9,	373.0,	-182.9,	-132.9,	6	16.8,	349.3,	368.9,	-157.8,	-130.5,
7	16.8,	321.2,	353.6,	-127.9,	-124.0,	8	16.8,	283.3,	327.6,	-94.1,	-113.9,
9	16.8,	237.2,	291.6,	-57.5,	-100.0,	10	16.8,	279.9,	325.4,	-59.3,	-82.9,
11	16.8,	318.5,	352.2,	-59.7,	-63.5,	12	16.8,	347.4,	368.3,	-58.4,	-42.2,
13	16.8,	365.8,	373.3,	-55.3,	-19.6,	14	16.8,	373.0,	366.9,	-50.5,	3.6,
15	16.8,	368.9,	349.3,	-44.2,	26.6,	16	16.8,	353.6,	321.2,	-36.5,	48.9,
17	16.8,	327.6,	283.3,	-27.8,	69.7,	18	16.8,	291.6,	237.2,	-18.6,	88.3,
19	16.8,	325.4,	279.9,	-57.1,	103.4,	20	16.8,	352.2,	318.5,	-95.7,	116.4,
21	16.8,	368.3,	347.4,	-131.5,	125.8,	22	16.8,	373.3,	365.8,	-163.3,	131.3,
23	16.8,	366.9,	373.0,	-190.1,	132.9,	24	16.8,	349.3,	368.9,	-211.1,	130.5,
25	16.8,	321.2,	353.6,	-225.7,	124.0,	26	16.8,	283.3,	327.6,	-233.5,	113.9,
27	16.8,	237.2,	291.6,	-234.1,	100.0,	28	16.8,	279.9,	325.4,	-266.1,	82.9,
29	16.8,	318.5,	352.2,	-292.5,	63.5,	30	16.8,	347.4,	368.3,	-309.9,	42.2,
31	16.8,	365.8,	373.3,	-318.0,	19.6,	32	16.8,	373.0,	366.9,	-316.4,	-3.6,
33	16.8,	368.9,	349.3,	-305.1,	-26.6,	34	16.8,	353.6,	321.2,	-284.6,	-48.9,
35	16.8,	327.6,	283.3,	-255.5,	-69.7,	36	16.8,	291.6,	237.2,	-218.6,	-88.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK81

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-221.9,	-108.8,	2	16.8,	352.2,	318.5,	-220.9,	-121.5,
3	16.8,	368.3,	347.4,	-213.2,	-130.5,	4	16.8,	373.3,	365.8,	-199.0,	-135.5,
5	16.8,	366.9,	373.0,	-178.8,	-136.4,	6	16.8,	349.3,	368.9,	-153.1,	-133.2,
7	16.8,	321.2,	353.6,	-122.8,	-125.9,	8	16.8,	283.3,	327.6,	-88.8,	-114.8,
9	16.8,	237.2,	291.6,	-52.0,	-100.0,	10	16.8,	279.9,	325.4,	-53.9,	-81.9,
11	16.8,	318.5,	352.2,	-54.6,	-61.6,	12	16.8,	347.4,	368.3,	-53.7,	-39.5,
13	16.8,	365.8,	373.3,	-51.1,	-16.1,	14	16.8,	373.0,	366.9,	-47.0,	7.7,
15	16.8,	368.9,	349.3,	-41.5,	31.4,	16	16.8,	353.6,	321.2,	-34.7,	54.0,
17	16.8,	327.6,	283.3,	-26.8,	75.0,	18	16.8,	291.6,	237.2,	-18.6,	93.8,
19	16.8,	325.4,	279.9,	-58.0,	108.8,	20	16.8,	352.2,	318.5,	-97.6,	121.5,
21	16.8,	368.3,	347.4,	-134.2,	130.5,	22	16.8,	373.3,	365.8,	-166.8,	135.5,
23	16.8,	366.9,	373.0,	-194.2,	136.4,	24	16.8,	349.3,	368.9,	-215.8,	133.2,
25	16.8,	321.2,	353.6,	-230.8,	125.9,	26	16.8,	283.3,	327.6,	-238.8,	114.8,
27	16.8,	237.2,	291.6,	-239.6,	100.0,	28	16.8,	279.9,	325.4,	-271.5,	81.9,
29	16.8,	318.5,	352.2,	-297.6,	61.6,	30	16.8,	347.4,	368.3,	-314.6,	39.5,
31	16.8,	365.8,	373.3,	-322.1,	16.1,	32	16.8,	373.0,	366.9,	-319.9,	-7.7,
33	16.8,	368.9,	349.3,	-307.9,	-31.4,	34	16.8,	353.6,	321.2,	-286.5,	-54.0,
35	16.8,	327.6,	283.3,	-256.4,	-75.0,	36	16.8,	291.6,	237.2,	-218.6,	-93.8,

SOURCE ID: STCK82

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	325.4,	279.9,	-221.2,	-112.7,	2	16.8,	352.2,	318.5,	-219.5,	-125.2,
3	16.8,	368.3,	347.4,	-211.2,	-133.9,	4	16.8,	373.3,	365.8,	-196.5,	-138.5,
5	16.8,	366.9,	373.0,	-175.8,	-139.0,	6	16.8,	349.3,	368.9,	-149.7,	-135.2,
7	16.8,	321.2,	353.6,	-119.1,	-127.3,	8	16.8,	283.3,	327.6,	-84.9,	-115.5,
9	16.8,	237.2,	291.6,	-48.1,	-100.0,	10	16.8,	279.9,	325.4,	-50.0,	-81.2,
11	16.8,	318.5,	352.2,	-50.9,	-60.3,	12	16.8,	347.4,	368.3,	-50.3,	-37.5,
13	16.8,	365.8,	373.3,	-48.1,	-13.6,	14	16.8,	373.0,	366.9,	-44.5,	10.8,
15	16.8,	368.9,	349.3,	-39.5,	34.8,	16	16.8,	353.6,	321.2,	-33.3,	57.7,
17	16.8,	327.6,	283.3,	-26.1,	78.9,	18	16.8,	291.6,	237.2,	-18.6,	97.7,
19	16.8,	325.4,	279.9,	-58.7,	112.7,	20	16.8,	352.2,	318.5,	-98.9,	125.2,
21	16.8,	368.3,	347.4,	-136.2,	133.9,	22	16.8,	373.3,	365.8,	-169.3,	138.5,
23	16.8,	366.9,	373.0,	-197.3,	139.0,	24	16.8,	349.3,	368.9,	-219.2,	135.2,
25	16.8,	321.2,	353.6,	-234.5,	127.3,	26	16.8,	283.3,	327.6,	-242.7,	115.5,
27	16.8,	237.2,	291.6,	-243.5,	100.0,	28	16.8,	279.9,	325.4,	-275.4,	81.2,
29	16.8,	318.5,	352.2,	-301.3,	60.3,	30	16.8,	347.4,	368.3,	-318.1,	37.5,
31	16.8,	365.8,	373.3,	-325.2,	13.6,	32	16.8,	373.0,	366.9,	-322.4,	-10.8,
33	16.8,	368.9,	349.3,	-309.8,	-34.8,	34	16.8,	353.6,	321.2,	-287.9,	-57.7,
35	16.8,	327.6,	283.3,	-257.1,	-78.9,	36	16.8,	291.6,	237.2,	-218.6,	-97.7,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK83

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-24.4,	-79.7,	2	16.8,	350.7,	315.2,	-31.6,	-58.8,
3	16.8,	366.1,	344.4,	-37.8,	-36.2,	4	16.8,	370.4,	363.1,	-42.9,	-12.4,
5	16.8,	363.5,	370.8,	-46.7,	11.8,	6	16.8,	345.5,	367.2,	-49.1,	35.5,
7	16.8,	317.0,	352.4,	-49.9,	58.2,	8	16.8,	278.9,	327.0,	-49.3,	79.2,
9	16.8,	232.3,	291.6,	-47.1,	97.7,	10	16.8,	276.5,	324.6,	-82.6,	113.8,
11	16.8,	315.2,	350.7,	-116.5,	126.0,	12	16.8,	344.4,	366.1,	-146.9,	134.4,
13	16.8,	363.1,	370.4,	-172.8,	138.6,	14	16.8,	370.8,	363.5,	-193.5,	138.7,
15	16.8,	367.2,	345.5,	-208.3,	134.5,	16	16.8,	352.4,	317.0,	-216.7,	126.3,
17	16.8,	327.0,	278.9,	-218.6,	114.2,	18	16.8,	291.6,	232.3,	-213.9,	98.7,
19	16.8,	324.6,	276.5,	-252.1,	79.7,	20	16.8,	350.7,	315.2,	-283.6,	58.8,
21	16.8,	366.1,	344.4,	-306.6,	36.2,	22	16.8,	370.4,	363.1,	-320.2,	12.4,
23	16.8,	363.5,	370.8,	-324.1,	-11.8,	24	16.8,	345.5,	367.2,	-318.1,	-35.5,
25	16.8,	317.0,	352.4,	-302.5,	-58.2,	26	16.8,	278.9,	327.0,	-277.7,	-79.2,
27	16.8,	232.3,	291.6,	-244.5,	-97.7,	28	16.8,	276.5,	324.6,	-242.0,	-113.8,
29	16.8,	315.2,	350.7,	-234.2,	-126.0,	30	16.8,	344.4,	366.1,	-219.2,	-134.4,
31	16.8,	363.1,	370.4,	-197.6,	-138.6,	32	16.8,	370.8,	363.5,	-170.0,	-138.7,
33	16.8,	367.2,	345.5,	-137.2,	-134.5,	34	16.8,	352.4,	317.0,	-100.3,	-126.3,
35	16.8,	327.0,	278.9,	-60.3,	-114.2,	36	16.8,	291.6,	232.3,	-18.4,	-98.7,

SOURCE ID: STCK84

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-25.9,	-71.0,	2	16.8,	350.7,	315.2,	-34.6,	-50.5,
3	16.8,	366.1,	344.4,	-42.2,	-28.5,	4	16.8,	370.4,	363.1,	-48.6,	-5.6,
5	16.8,	363.5,	370.8,	-53.4,	17.4,	6	16.8,	345.5,	367.2,	-56.7,	39.9,
7	16.8,	317.0,	352.4,	-58.2,	61.2,	8	16.8,	278.9,	327.0,	-58.0,	80.7,
9	16.8,	232.3,	291.6,	-56.0,	97.7,	10	16.8,	276.5,	324.6,	-91.3,	112.3,
11	16.8,	315.2,	350.7,	-124.8,	123.0,	12	16.8,	344.4,	366.1,	-154.5,	130.0,
13	16.8,	363.1,	370.4,	-179.6,	133.0,	14	16.8,	370.8,	363.5,	-199.2,	131.9,
15	16.8,	367.2,	345.5,	-212.7,	126.9,	16	16.8,	352.4,	317.0,	-219.8,	118.0,
17	16.8,	327.0,	278.9,	-220.2,	105.5,	18	16.8,	291.6,	232.3,	-213.9,	89.8,
19	16.8,	324.6,	276.5,	-250.5,	71.0,	20	16.8,	350.7,	315.2,	-280.6,	50.5,
21	16.8,	366.1,	344.4,	-302.2,	28.5,	22	16.8,	370.4,	363.1,	-314.5,	5.6,
23	16.8,	363.5,	370.8,	-317.3,	-17.4,	24	16.8,	345.5,	367.2,	-310.5,	-39.9,
25	16.8,	317.0,	352.4,	-294.2,	-61.2,	26	16.8,	278.9,	327.0,	-269.0,	-80.7,
27	16.8,	232.3,	291.6,	-235.6,	-97.7,	28	16.8,	276.5,	324.6,	-233.3,	-112.3,
29	16.8,	315.2,	350.7,	-225.9,	-123.0,	30	16.8,	344.4,	366.1,	-211.6,	-130.0,
31	16.8,	363.1,	370.4,	-190.9,	-133.0,	32	16.8,	370.8,	363.5,	-164.3,	-131.9,
33	16.8,	367.2,	345.5,	-132.8,	-126.9,	34	16.8,	352.4,	317.0,	-97.2,	-118.0,
35	16.8,	327.0,	278.9,	-58.7,	-105.5,	36	16.8,	291.6,	232.3,	-18.4,	-89.8,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK85

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-26.7,	-66.8,	2	16.8,	350.7,	315.2,	-36.1,	-46.5,
3	16.8,	366.1,	344.4,	-44.4,	-24.8,	4	16.8,	370.4,	363.1,	-51.4,	-2.3,
5	16.8,	363.5,	370.8,	-56.8,	20.2,	6	16.8,	345.5,	367.2,	-60.4,	42.1,
7	16.8,	317.0,	352.4,	-62.3,	62.7,	8	16.8,	278.9,	327.0,	-62.2,	81.5,
9	16.8,	232.3,	291.6,	-60.3,	97.7,	10	16.8,	276.5,	324.6,	-95.5,	111.6,
11	16.8,	315.2,	350.7,	-128.9,	121.5,	12	16.8,	344.4,	366.1,	-158.3,	127.8,
13	16.8,	363.1,	370.4,	-182.9,	130.2,	14	16.8,	370.8,	363.5,	-201.9,	128.6,
15	16.8,	367.2,	345.5,	-214.8,	123.2,	16	16.8,	352.4,	317.0,	-221.2,	114.0,
17	16.8,	327.0,	278.9,	-220.9,	101.3,	18	16.8,	291.6,	232.3,	-213.9,	85.5,
19	16.8,	324.6,	276.5,	-249.8,	66.8,	20	16.8,	350.7,	315.2,	-279.1,	46.5,
21	16.8,	366.1,	344.4,	-300.0,	24.8,	22	16.8,	370.4,	363.1,	-311.8,	2.3,
23	16.8,	363.5,	370.8,	-314.0,	-20.2,	24	16.8,	345.5,	367.2,	-306.8,	-42.1,
25	16.8,	317.0,	352.4,	-290.2,	-62.7,	26	16.8,	278.9,	327.0,	-264.8,	-81.5,
27	16.8,	232.3,	291.6,	-231.3,	-97.7,	28	16.8,	276.5,	324.6,	-229.1,	-111.6,
29	16.8,	315.2,	350.7,	-221.8,	-121.5,	30	16.8,	344.4,	366.1,	-207.8,	-127.8,
31	16.8,	363.1,	370.4,	-187.6,	-130.2,	32	16.8,	370.8,	363.5,	-161.6,	-128.6,
33	16.8,	367.2,	345.5,	-130.6,	-123.2,	34	16.8,	352.4,	317.0,	-95.8,	-114.0,
35	16.8,	327.0,	278.9,	-58.0,	-101.3,	36	16.8,	291.6,	232.3,	-18.4,	-85.5,

SOURCE ID: STCK86

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-27.4,	-62.5,	2	16.8,	350.7,	315.2,	-37.6,	-42.4,
3	16.8,	366.1,	344.4,	-46.6,	-21.1,	4	16.8,	370.4,	363.1,	-54.1,	1.0,
5	16.8,	363.5,	370.8,	-60.1,	23.0,	6	16.8,	345.5,	367.2,	-64.2,	44.3,
7	16.8,	317.0,	352.4,	-66.3,	64.2,	8	16.8,	278.9,	327.0,	-66.5,	82.2,
9	16.8,	232.3,	291.6,	-64.6,	97.7,	10	16.8,	276.5,	324.6,	-99.8,	110.8,
11	16.8,	315.2,	350.7,	-132.9,	120.0,	12	16.8,	344.4,	366.1,	-162.0,	125.6,
13	16.8,	363.1,	370.4,	-186.2,	127.4,	14	16.8,	370.8,	363.5,	-204.7,	125.3,
15	16.8,	367.2,	345.5,	-217.0,	119.4,	16	16.8,	352.4,	317.0,	-222.7,	109.9,
17	16.8,	327.0,	278.9,	-221.7,	97.0,	18	16.8,	291.6,	232.3,	-213.9,	81.2,
19	16.8,	324.6,	276.5,	-249.1,	62.5,	20	16.8,	350.7,	315.2,	-277.7,	42.4,
21	16.8,	366.1,	344.4,	-297.9,	21.1,	22	16.8,	370.4,	363.1,	-309.0,	-1.0,
23	16.8,	363.5,	370.8,	-310.7,	-23.0,	24	16.8,	345.5,	367.2,	-303.0,	-44.3,
25	16.8,	317.0,	352.4,	-286.1,	-64.2,	26	16.8,	278.9,	327.0,	-260.5,	-82.2,
27	16.8,	232.3,	291.6,	-227.0,	-97.7,	28	16.8,	276.5,	324.6,	-224.8,	-110.8,
29	16.8,	315.2,	350.7,	-217.8,	-120.0,	30	16.8,	344.4,	366.1,	-204.1,	-125.6,
31	16.8,	363.1,	370.4,	-184.2,	-127.4,	32	16.8,	370.8,	363.5,	-158.8,	-125.3,
33	16.8,	367.2,	345.5,	-128.5,	-119.4,	34	16.8,	352.4,	317.0,	-94.3,	-109.9,
35	16.8,	327.0,	278.9,	-57.2,	-97.0,	36	16.8,	291.6,	232.3,	-18.4,	-81.2,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK87

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-28.2,	-58.3,	2	16.8,	350.7,	315.2,	-39.0,	-38.4,
3	16.8,	366.1,	344.4,	-48.7,	-17.3,	4	16.8,	370.4,	363.1,	-56.9,	4.3,
5	16.8,	363.5,	370.8,	-63.4,	25.7,	6	16.8,	345.5,	367.2,	-67.9,	46.4,
7	16.8,	317.0,	352.4,	-70.4,	65.7,	8	16.8,	278.9,	327.0,	-70.7,	83.0,
9	16.8,	232.3,	291.6,	-68.9,	97.7,	10	16.8,	276.5,	324.6,	-104.0,	110.1,
11	16.8,	315.2,	350.7,	-137.0,	118.6,	12	16.8,	344.4,	366.1,	-165.7,	123.5,
13	16.8,	363.1,	370.4,	-189.5,	124.6,	14	16.8,	370.8,	363.5,	-207.5,	122.0,
15	16.8,	367.2,	345.5,	-219.2,	115.7,	16	16.8,	352.4,	317.0,	-224.2,	105.8,
17	16.8,	327.0,	278.9,	-222.4,	92.8,	18	16.8,	291.6,	232.3,	-213.9,	76.9,
19	16.8,	324.6,	276.5,	-248.3,	58.3,	20	16.8,	350.7,	315.2,	-276.2,	38.4,
21	16.8,	366.1,	344.4,	-295.7,	17.3,	22	16.8,	370.4,	363.1,	-306.2,	-4.3,
23	16.8,	363.5,	370.8,	-307.4,	-25.7,	24	16.8,	345.5,	367.2,	-299.3,	-46.4,
25	16.8,	317.0,	352.4,	-282.1,	-65.7,	26	16.8,	278.9,	327.0,	-256.3,	-83.0,
27	16.8,	232.3,	291.6,	-222.7,	-97.7,	28	16.8,	276.5,	324.6,	-220.6,	-110.1,
29	16.8,	315.2,	350.7,	-213.7,	-118.6,	30	16.8,	344.4,	366.1,	-200.4,	-123.5,
31	16.8,	363.1,	370.4,	-180.9,	-124.6,	32	16.8,	370.8,	363.5,	-156.0,	-122.0,
33	16.8,	367.2,	345.5,	-126.3,	-115.7,	34	16.8,	352.4,	317.0,	-92.8,	-105.8,
35	16.8,	327.0,	278.9,	-56.5,	-92.8,	36	16.8,	291.6,	232.3,	-18.4,	-76.9,

SOURCE ID: STCK88

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-29.0,	-53.8,	2	16.8,	350.7,	315.2,	-40.6,	-34.1,
3	16.8,	366.1,	344.4,	-51.0,	-13.4,	4	16.8,	370.4,	363.1,	-59.8,	7.7,
5	16.8,	363.5,	370.8,	-66.8,	28.6,	6	16.8,	345.5,	367.2,	-71.8,	48.7,
7	16.8,	317.0,	352.4,	-74.6,	67.2,	8	16.8,	278.9,	327.0,	-75.1,	83.7,
9	16.8,	232.3,	291.6,	-73.4,	97.7,	10	16.8,	276.5,	324.6,	-108.5,	109.3,
11	16.8,	315.2,	350.7,	-141.2,	117.0,	12	16.8,	344.4,	366.1,	-169.6,	121.2,
13	16.8,	363.1,	370.4,	-192.9,	121.8,	14	16.8,	370.8,	363.5,	-210.4,	118.6,
15	16.8,	367.2,	345.5,	-221.4,	111.8,	16	16.8,	352.4,	317.0,	-225.7,	101.6,
17	16.8,	327.0,	278.9,	-223.2,	88.3,	18	16.8,	291.6,	232.3,	-213.9,	72.4,
19	16.8,	324.6,	276.5,	-247.5,	53.8,	20	16.8,	350.7,	315.2,	-274.7,	34.1,
21	16.8,	366.1,	344.4,	-293.4,	13.4,	22	16.8,	370.4,	363.1,	-303.3,	-7.7,
23	16.8,	363.5,	370.8,	-304.0,	-28.6,	24	16.8,	345.5,	367.2,	-295.4,	-48.7,
25	16.8,	317.0,	352.4,	-277.8,	-67.2,	26	16.8,	278.9,	327.0,	-251.8,	-83.7,
27	16.8,	232.3,	291.6,	-218.2,	-97.7,	28	16.8,	276.5,	324.6,	-216.1,	-109.3,
29	16.8,	315.2,	350.7,	-209.5,	-117.0,	30	16.8,	344.4,	366.1,	-196.5,	-121.2,
31	16.8,	363.1,	370.4,	-177.5,	-121.8,	32	16.8,	370.8,	363.5,	-153.1,	-118.6,
33	16.8,	367.2,	345.5,	-124.1,	-111.8,	34	16.8,	352.4,	317.0,	-91.3,	-101.6,
35	16.8,	327.0,	278.9,	-55.7,	-88.3,	36	16.8,	291.6,	232.3,	-18.4,	-72.4,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK89

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-29.6,	-50.1,	2	16.8,	350.7,	315.2,	-41.9,	-30.6,
3	16.8,	366.1,	344.4,	-52.8,	-10.2,	4	16.8,	370.4,	363.1,	-62.2,	10.6,
5	16.8,	363.5,	370.8,	-69.7,	31.0,	6	16.8,	345.5,	367.2,	-75.1,	50.5,
7	16.8,	317.0,	352.4,	-78.1,	68.5,	8	16.8,	278.9,	327.0,	-78.8,	84.4,
9	16.8,	232.3,	291.6,	-77.2,	97.7,	10	16.8,	276.5,	324.6,	-112.1,	108.6,
11	16.8,	315.2,	350.7,	-144.7,	115.8,	12	16.8,	344.4,	366.1,	-172.9,	119.4,
13	16.8,	363.1,	370.4,	-195.8,	119.3,	14	16.8,	370.8,	363.5,	-212.8,	115.7,
15	16.8,	367.2,	345.5,	-223.3,	108.5,	16	16.8,	352.4,	317.0,	-227.0,	98.1,
17	16.8,	327.0,	278.9,	-223.8,	84.6,	18	16.8,	291.6,	232.3,	-213.9,	68.6,
19	16.8,	324.6,	276.5,	-246.9,	50.1,	20	16.8,	350.7,	315.2,	-273.4,	30.6,
21	16.8,	366.1,	344.4,	-291.6,	10.2,	22	16.8,	370.4,	363.1,	-300.9,	-10.6,
23	16.8,	363.5,	370.8,	-301.1,	-31.0,	24	16.8,	345.5,	367.2,	-292.1,	-50.5,
25	16.8,	317.0,	352.4,	-274.3,	-68.5,	26	16.8,	278.9,	327.0,	-248.1,	-84.4,
27	16.8,	232.3,	291.6,	-214.4,	-97.7,	28	16.8,	276.5,	324.6,	-212.4,	-108.6,
29	16.8,	315.2,	350.7,	-206.0,	-115.8,	30	16.8,	344.4,	366.1,	-193.2,	-119.4,
31	16.8,	363.1,	370.4,	-174.6,	-119.3,	32	16.8,	370.8,	363.5,	-150.7,	-115.7,
33	16.8,	367.2,	345.5,	-122.2,	-108.5,	34	16.8,	352.4,	317.0,	-90.0,	-98.1,
35	16.8,	327.0,	278.9,	-55.0,	-84.6,	36	16.8,	291.6,	232.3,	-18.4,	-68.6,

SOURCE ID: STCK90

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-30.3,	-46.3,	2	16.8,	350.7,	315.2,	-43.2,	-26.9,
3	16.8,	366.1,	344.4,	-54.8,	-6.8,	4	16.8,	370.4,	363.1,	-64.8,	13.6,
5	16.8,	363.5,	370.8,	-72.7,	33.6,	6	16.8,	345.5,	367.2,	-78.5,	52.5,
7	16.8,	317.0,	352.4,	-81.8,	69.8,	8	16.8,	278.9,	327.0,	-82.7,	85.1,
9	16.8,	232.3,	291.6,	-81.1,	97.7,	10	16.8,	276.5,	324.6,	-116.0,	107.9,
11	16.8,	315.2,	350.7,	-148.4,	114.4,	12	16.8,	344.4,	366.1,	-176.3,	117.4,
13	16.8,	363.1,	370.4,	-198.8,	116.8,	14	16.8,	370.8,	363.5,	-215.3,	112.7,
15	16.8,	367.2,	345.5,	-225.2,	105.1,	16	16.8,	352.4,	317.0,	-228.4,	94.4,
17	16.8,	327.0,	278.9,	-224.5,	80.8,	18	16.8,	291.6,	232.3,	-213.9,	64.7,
19	16.8,	324.6,	276.5,	-246.2,	46.3,	20	16.8,	350.7,	315.2,	-272.0,	26.9,
21	16.8,	366.1,	344.4,	-289.6,	6.8,	22	16.8,	370.4,	363.1,	-298.4,	-13.6,
23	16.8,	363.5,	370.8,	-298.1,	-33.6,	24	16.8,	345.5,	367.2,	-288.7,	-52.5,
25	16.8,	317.0,	352.4,	-270.6,	-69.8,	26	16.8,	278.9,	327.0,	-244.3,	-85.1,
27	16.8,	232.3,	291.6,	-210.5,	-97.7,	28	16.8,	276.5,	324.6,	-208.6,	-107.9,
29	16.8,	315.2,	350.7,	-202.2,	-114.4,	30	16.8,	344.4,	366.1,	-189.8,	-117.4,
31	16.8,	363.1,	370.4,	-171.6,	-116.8,	32	16.8,	370.8,	363.5,	-148.2,	-112.7,
33	16.8,	367.2,	345.5,	-120.2,	-105.1,	34	16.8,	352.4,	317.0,	-88.6,	-94.4,
35	16.8,	327.0,	278.9,	-54.4,	-80.8,	36	16.8,	291.6,	232.3,	-18.4,	-64.7,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK91

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-31.9,	-37.4,	2	16.8,	350.7,	315.2,	-46.3,	-18.4,
3	16.8,	366.1,	344.4,	-59.3,	1.1,	4	16.8,	370.4,	363.1,	-70.5,	20.5,
5	16.8,	363.5,	370.8,	-79.6,	39.4,	6	16.8,	345.5,	367.2,	-86.3,	57.0,
7	16.8,	317.0,	352.4,	-90.3,	72.9,	8	16.8,	278.9,	327.0,	-91.6,	86.6,
9	16.8,	232.3,	291.6,	-90.1,	97.7,	10	16.8,	276.5,	324.6,	-124.9,	106.4,
11	16.8,	315.2,	350.7,	-156.9,	111.3,	12	16.8,	344.4,	366.1,	-184.1,	112.9,
13	16.8,	363.1,	370.4,	-205.7,	111.0,	14	16.8,	370.8,	363.5,	-221.1,	105.8,
15	16.8,	367.2,	345.5,	-229.8,	97.3,	16	16.8,	352.4,	317.0,	-231.4,	85.9,
17	16.8,	327.0,	278.9,	-226.1,	71.9,	18	16.8,	291.6,	232.3,	-213.9,	55.7,
19	16.8,	324.6,	276.5,	-244.6,	37.4,	20	16.8,	350.7,	315.2,	-268.9,	18.4,
21	16.8,	366.1,	344.4,	-285.1,	-1.1,	22	16.8,	370.4,	363.1,	-292.6,	-20.5,
23	16.8,	363.5,	370.8,	-291.2,	-39.4,	24	16.8,	345.5,	367.2,	-280.9,	-57.0,
25	16.8,	317.0,	352.4,	-262.1,	-72.9,	26	16.8,	278.9,	327.0,	-235.4,	-86.6,
27	16.8,	232.3,	291.6,	-201.5,	-97.7,	28	16.8,	276.5,	324.6,	-199.7,	-106.4,
29	16.8,	315.2,	350.7,	-193.8,	-111.3,	30	16.8,	344.4,	366.1,	-182.0,	-112.9,
31	16.8,	363.1,	370.4,	-164.7,	-111.0,	32	16.8,	370.8,	363.5,	-142.4,	-105.8,
33	16.8,	367.2,	345.5,	-115.7,	-97.3,	34	16.8,	352.4,	317.0,	-85.6,	-85.9,
35	16.8,	327.0,	278.9,	-52.8,	-71.9,	36	16.8,	291.6,	232.3,	-18.4,	-55.7,

SOURCE ID: STCK92

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-32.6,	-33.1,	2	16.8,	350.7,	315.2,	-47.8,	-14.4,
3	16.8,	366.1,	344.4,	-61.5,	4.8,	4	16.8,	370.4,	363.1,	-73.3,	23.8,
5	16.8,	363.5,	370.8,	-82.9,	42.1,	6	16.8,	345.5,	367.2,	-90.0,	59.2,
7	16.8,	317.0,	352.4,	-94.4,	74.4,	8	16.8,	278.9,	327.0,	-95.9,	87.4,
9	16.8,	232.3,	291.6,	-94.4,	97.7,	10	16.8,	276.5,	324.6,	-129.2,	105.6,
11	16.8,	315.2,	350.7,	-161.0,	109.8,	12	16.8,	344.4,	366.1,	-187.9,	110.7,
13	16.8,	363.1,	370.4,	-209.0,	108.2,	14	16.8,	370.8,	363.5,	-223.9,	102.5,
15	16.8,	367.2,	345.5,	-231.9,	93.6,	16	16.8,	352.4,	317.0,	-232.9,	81.9,
17	16.8,	327.0,	278.9,	-226.8,	67.6,	18	16.8,	291.6,	232.3,	-213.9,	51.4,
19	16.8,	324.6,	276.5,	-243.9,	33.1,	20	16.8,	350.7,	315.2,	-267.5,	14.4,
21	16.8,	366.1,	344.4,	-282.9,	-4.8,	22	16.8,	370.4,	363.1,	-289.8,	-23.8,
23	16.8,	363.5,	370.8,	-287.9,	-42.1,	24	16.8,	345.5,	367.2,	-277.2,	-59.2,
25	16.8,	317.0,	352.4,	-258.1,	-74.4,	26	16.8,	278.9,	327.0,	-231.1,	-87.4,
27	16.8,	232.3,	291.6,	-197.2,	-97.7,	28	16.8,	276.5,	324.6,	-195.4,	-105.6,
29	16.8,	315.2,	350.7,	-189.7,	-109.8,	30	16.8,	344.4,	366.1,	-178.3,	-110.7,
31	16.8,	363.1,	370.4,	-161.4,	-108.2,	32	16.8,	370.8,	363.5,	-139.6,	-102.5,
33	16.8,	367.2,	345.5,	-113.6,	-93.6,	34	16.8,	352.4,	317.0,	-84.1,	-81.9,
35	16.8,	327.0,	278.9,	-52.0,	-67.6,	36	16.8,	291.6,	232.3,	-18.4,	-51.4,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK93

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-33.4,	-28.7,	2	16.8,	350.7,	315.2,	-49.3,	-10.2,
3	16.8,	366.1,	344.4,	-63.7,	8.7,	4	16.8,	370.4,	363.1,	-76.2,	27.3,
5	16.8,	363.5,	370.8,	-86.4,	45.0,	6	16.8,	345.5,	367.2,	-93.9,	61.4,
7	16.8,	317.0,	352.4,	-98.6,	76.0,	8	16.8,	278.9,	327.0,	-100.3,	88.2,
9	16.8,	232.3,	291.6,	-98.9,	97.7,	10	16.8,	276.5,	324.6,	-133.6,	104.8,
11	16.8,	315.2,	350.7,	-165.2,	108.3,	12	16.8,	344.4,	366.1,	-191.7,	108.5,
13	16.8,	363.1,	370.4,	-212.5,	105.3,	14	16.8,	370.8,	363.5,	-226.8,	99.0,
15	16.8,	367.2,	345.5,	-234.2,	89.7,	16	16.8,	352.4,	317.0,	-234.5,	77.6,
17	16.8,	327.0,	278.9,	-227.6,	63.2,	18	16.8,	291.6,	232.3,	-213.9,	46.9,
19	16.8,	324.6,	276.5,	-243.1,	28.7,	20	16.8,	350.7,	315.2,	-265.9,	10.2,
21	16.8,	366.1,	344.4,	-280.7,	-8.7,	22	16.8,	370.4,	363.1,	-286.9,	-27.3,
23	16.8,	363.5,	370.8,	-284.4,	-45.0,	24	16.8,	345.5,	367.2,	-273.3,	-61.4,
25	16.8,	317.0,	352.4,	-253.9,	-76.0,	26	16.8,	278.9,	327.0,	-226.7,	-88.2,
27	16.8,	232.3,	291.6,	-192.7,	-97.7,	28	16.8,	276.5,	324.6,	-191.0,	-104.8,
29	16.8,	315.2,	350.7,	-185.5,	-108.3,	30	16.8,	344.4,	366.1,	-174.4,	-108.5,
31	16.8,	363.1,	370.4,	-157.9,	-105.3,	32	16.8,	370.8,	363.5,	-136.7,	-99.0,
33	16.8,	367.2,	345.5,	-111.3,	-89.7,	34	16.8,	352.4,	317.0,	-82.5,	-77.6,
35	16.8,	327.0,	278.9,	-51.3,	-63.2,	36	16.8,	291.6,	232.3,	-18.4,	-46.9,

SOURCE ID: STCK94

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-34.1,	-24.8,	2	16.8,	350.7,	315.2,	-50.7,	-6.5,
3	16.8,	366.1,	344.4,	-65.7,	12.1,	4	16.8,	370.4,	363.1,	-78.7,	30.3,
5	16.8,	363.5,	370.8,	-89.4,	47.6,	6	16.8,	345.5,	367.2,	-97.3,	63.4,
7	16.8,	317.0,	352.4,	-102.3,	77.3,	8	16.8,	278.9,	327.0,	-104.2,	88.8,
9	16.8,	232.3,	291.6,	-102.9,	97.7,	10	16.8,	276.5,	324.6,	-137.5,	104.2,
11	16.8,	315.2,	350.7,	-168.9,	107.0,	12	16.8,	344.4,	366.1,	-195.2,	106.5,
13	16.8,	363.1,	370.4,	-215.5,	102.8,	14	16.8,	370.8,	363.5,	-229.3,	96.0,
15	16.8,	367.2,	345.5,	-236.1,	86.3,	16	16.8,	352.4,	317.0,	-235.8,	73.9,
17	16.8,	327.0,	278.9,	-228.3,	59.3,	18	16.8,	291.6,	232.3,	-213.9,	42.9,
19	16.8,	324.6,	276.5,	-242.4,	24.8,	20	16.8,	350.7,	315.2,	-264.6,	6.5,
21	16.8,	366.1,	344.4,	-278.7,	-12.1,	22	16.8,	370.4,	363.1,	-284.4,	-30.3,
23	16.8,	363.5,	370.8,	-281.4,	-47.6,	24	16.8,	345.5,	367.2,	-269.9,	-63.4,
25	16.8,	317.0,	352.4,	-250.2,	-77.3,	26	16.8,	278.9,	327.0,	-222.8,	-88.8,
27	16.8,	232.3,	291.6,	-188.7,	-97.7,	28	16.8,	276.5,	324.6,	-187.1,	-104.2,
29	16.8,	315.2,	350.7,	-181.8,	-107.0,	30	16.8,	344.4,	366.1,	-171.0,	-106.5,
31	16.8,	363.1,	370.4,	-154.9,	-102.8,	32	16.8,	370.8,	363.5,	-134.2,	-96.0,
33	16.8,	367.2,	345.5,	-109.3,	-86.3,	34	16.8,	352.4,	317.0,	-81.2,	-73.9,
35	16.8,	327.0,	278.9,	-50.6,	-59.3,	36	16.8,	291.6,	232.3,	-18.4,	-42.9,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK95

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-34.8,	-20.6,	2	16.8,	350.7,	315.2,	-52.1,	-2.4,
3	16.8,	366.1,	344.4,	-67.9,	15.8,	4	16.8,	370.4,	363.1,	-81.5,	33.6,
5	16.8,	363.5,	370.8,	-92.7,	50.3,	6	16.8,	345.5,	367.2,	-101.1,	65.6,
7	16.8,	317.0,	352.4,	-106.4,	78.8,	8	16.8,	278.9,	327.0,	-108.4,	89.6,
9	16.8,	232.3,	291.6,	-107.2,	97.7,	10	16.8,	276.5,	324.6,	-141.7,	103.4,
11	16.8,	315.2,	350.7,	-172.9,	105.5,	12	16.8,	344.4,	366.1,	-198.9,	104.3,
13	16.8,	363.1,	370.4,	-218.8,	100.0,	14	16.8,	370.8,	363.5,	-232.1,	92.7,
15	16.8,	367.2,	345.5,	-238.3,	82.5,	16	16.8,	352.4,	317.0,	-237.3,	69.9,
17	16.8,	327.0,	278.9,	-229.0,	55.1,	18	16.8,	291.6,	232.3,	-213.9,	38.6,
19	16.8,	324.6,	276.5,	-241.7,	20.6,	20	16.8,	350.7,	315.2,	-263.1,	2.4,
21	16.8,	366.1,	344.4,	-276.6,	-15.8,	22	16.8,	370.4,	363.1,	-281.6,	-33.6,
23	16.8,	363.5,	370.8,	-278.1,	-50.3,	24	16.8,	345.5,	367.2,	-266.1,	-65.6,
25	16.8,	317.0,	352.4,	-246.1,	-78.8,	26	16.8,	278.9,	327.0,	-218.6,	-89.6,
27	16.8,	232.3,	291.6,	-184.4,	-97.7,	28	16.8,	276.5,	324.6,	-182.9,	-103.4,
29	16.8,	315.2,	350.7,	-177.7,	-105.5,	30	16.8,	344.4,	366.1,	-167.2,	-104.3,
31	16.8,	363.1,	370.4,	-151.6,	-100.0,	32	16.8,	370.8,	363.5,	-131.4,	-92.7,
33	16.8,	367.2,	345.5,	-107.2,	-82.5,	34	16.8,	352.4,	317.0,	-79.7,	-69.9,
35	16.8,	327.0,	278.9,	-49.8,	-55.1,	36	16.8,	291.6,	232.3,	-18.4,	-38.6,

SOURCE ID: STCK96

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-35.6,	-16.3,	2	16.8,	350.7,	315.2,	-53.6,	1.7,
3	16.8,	366.1,	344.4,	-70.0,	19.6,	4	16.8,	370.4,	363.1,	-84.3,	36.9,
5	16.8,	363.5,	370.8,	-96.0,	53.1,	6	16.8,	345.5,	367.2,	-104.8,	67.7,
7	16.8,	317.0,	352.4,	-110.4,	80.2,	8	16.8,	278.9,	327.0,	-112.7,	90.3,
9	16.8,	232.3,	291.6,	-111.5,	97.7,	10	16.8,	276.5,	324.6,	-146.0,	102.7,
11	16.8,	315.2,	350.7,	-177.0,	104.0,	12	16.8,	344.4,	366.1,	-202.6,	102.2,
13	16.8,	363.1,	370.4,	-222.1,	97.3,	14	16.8,	370.8,	363.5,	-234.9,	89.4,
15	16.8,	367.2,	345.5,	-240.5,	78.8,	16	16.8,	352.4,	317.0,	-238.8,	65.8,
17	16.8,	327.0,	278.9,	-229.8,	50.8,	18	16.8,	291.6,	232.3,	-213.9,	34.3,
19	16.8,	324.6,	276.5,	-240.9,	16.3,	20	16.8,	350.7,	315.2,	-261.6,	-1.7,
21	16.8,	366.1,	344.4,	-274.4,	-19.6,	22	16.8,	370.4,	363.1,	-278.8,	-36.9,
23	16.8,	363.5,	370.8,	-274.8,	-53.1,	24	16.8,	345.5,	367.2,	-262.4,	-67.7,
25	16.8,	317.0,	352.4,	-242.0,	-80.2,	26	16.8,	278.9,	327.0,	-214.3,	-90.3,
27	16.8,	232.3,	291.6,	-180.1,	-97.7,	28	16.8,	276.5,	324.6,	-178.6,	-102.7,
29	16.8,	315.2,	350.7,	-173.7,	-104.0,	30	16.8,	344.4,	366.1,	-163.5,	-102.2,
31	16.8,	363.1,	370.4,	-148.3,	-97.3,	32	16.8,	370.8,	363.5,	-128.6,	-89.4,
33	16.8,	367.2,	345.5,	-105.0,	-78.8,	34	16.8,	352.4,	317.0,	-78.2,	-65.8,
35	16.8,	327.0,	278.9,	-49.1,	-50.8,	36	16.8,	291.6,	232.3,	-18.4,	-34.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK97

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-36.3,	-12.1,	2	16.8,	350.7,	315.2,	-55.1,	5.7,
3	16.8,	366.1,	344.4,	-72.2,	23.3,	4	16.8,	370.4,	363.1,	-87.1,	40.2,
5	16.8,	363.5,	370.8,	-99.3,	55.9,	6	16.8,	345.5,	367.2,	-108.5,	69.9,
7	16.8,	317.0,	352.4,	-114.5,	81.7,	8	16.8,	278.9,	327.0,	-116.9,	91.1,
9	16.8,	232.3,	291.6,	-115.8,	97.7,	10	16.8,	276.5,	324.6,	-150.2,	101.9,
11	16.8,	315.2,	350.7,	-181.1,	102.5,	12	16.8,	344.4,	366.1,	-206.4,	100.0,
13	16.8,	363.1,	370.4,	-225.4,	94.5,	14	16.8,	370.8,	363.5,	-237.6,	86.1,
15	16.8,	367.2,	345.5,	-242.6,	75.1,	16	16.8,	352.4,	317.0,	-240.2,	61.8,
17	16.8,	327.0,	278.9,	-230.5,	46.6,	18	16.8,	291.6,	232.3,	-213.9,	30.0,
19	16.8,	324.6,	276.5,	-240.2,	12.1,	20	16.8,	350.7,	315.2,	-260.1,	-5.7,
21	16.8,	366.1,	344.4,	-272.2,	-23.3,	22	16.8,	370.4,	363.1,	-276.1,	-40.2,
23	16.8,	363.5,	370.8,	-271.5,	-55.9,	24	16.8,	345.5,	367.2,	-258.7,	-69.9,
25	16.8,	317.0,	352.4,	-238.0,	-81.7,	26	16.8,	278.9,	327.0,	-210.1,	-91.1,
27	16.8,	232.3,	291.6,	-175.8,	-97.7,	28	16.8,	276.5,	324.6,	-174.4,	-101.9,
29	16.8,	315.2,	350.7,	-169.6,	-102.5,	30	16.8,	344.4,	366.1,	-159.7,	-100.0,
31	16.8,	363.1,	370.4,	-145.0,	-94.5,	32	16.8,	370.8,	363.5,	-125.8,	-86.1,
33	16.8,	367.2,	345.5,	-102.9,	-75.1,	34	16.8,	352.4,	317.0,	-76.8,	-61.8,
35	16.8,	327.0,	278.9,	-48.3,	-46.6,	36	16.8,	291.6,	232.3,	-18.4,	-30.0,

SOURCE ID: STCK98

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-37.8,	-3.6,	2	16.8,	350.7,	315.2,	-58.0,	13.8,
3	16.8,	366.1,	344.4,	-76.5,	30.8,	4	16.8,	370.4,	363.1,	-92.6,	46.8,
5	16.8,	363.5,	370.8,	-105.9,	61.4,	6	16.8,	345.5,	367.2,	-116.0,	74.2,
7	16.8,	317.0,	352.4,	-122.5,	84.7,	8	16.8,	278.9,	327.0,	-125.4,	92.6,
9	16.8,	232.3,	291.6,	-124.4,	97.7,	10	16.8,	276.5,	324.6,	-158.7,	100.4,
11	16.8,	315.2,	350.7,	-189.1,	99.6,	12	16.8,	344.4,	366.1,	-213.8,	95.7,
13	16.8,	363.1,	370.4,	-232.0,	89.0,	14	16.8,	370.8,	363.5,	-243.2,	79.5,
15	16.8,	367.2,	345.5,	-246.9,	67.6,	16	16.8,	352.4,	317.0,	-243.2,	53.7,
17	16.8,	327.0,	278.9,	-232.0,	38.1,	18	16.8,	291.6,	232.3,	-213.9,	21.4,
19	16.8,	324.6,	276.5,	-238.7,	3.6,	20	16.8,	350.7,	315.2,	-257.2,	-13.8,
21	16.8,	366.1,	344.4,	-267.9,	-30.8,	22	16.8,	370.4,	363.1,	-270.5,	-46.8,
23	16.8,	363.5,	370.8,	-264.9,	-61.4,	24	16.8,	345.5,	367.2,	-251.2,	-74.2,
25	16.8,	317.0,	352.4,	-229.9,	-84.7,	26	16.8,	278.9,	327.0,	-201.6,	-92.6,
27	16.8,	232.3,	291.6,	-167.2,	-97.7,	28	16.8,	276.5,	324.6,	-165.9,	-100.4,
29	16.8,	315.2,	350.7,	-161.6,	-99.6,	30	16.8,	344.4,	366.1,	-152.3,	-95.7,
31	16.8,	363.1,	370.4,	-138.4,	-89.0,	32	16.8,	370.8,	363.5,	-120.3,	-79.5,
33	16.8,	367.2,	345.5,	-98.6,	-67.6,	34	16.8,	352.4,	317.0,	-73.8,	-53.7,
35	16.8,	327.0,	278.9,	-46.8,	-38.1,	36	16.8,	291.6,	232.3,	-18.4,	-21.4,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK99

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-38.6,	0.9,	2	16.8,	350.7,	315.2,	-59.6,	18.1,
3	16.8,	366.1,	344.4,	-78.8,	34.8,	4	16.8,	370.4,	363.1,	-95.6,	50.3,
5	16.8,	363.5,	370.8,	-109.4,	64.4,	6	16.8,	345.5,	367.2,	-120.0,	76.5,
7	16.8,	317.0,	352.4,	-126.9,	86.2,	8	16.8,	278.9,	327.0,	-129.9,	93.4,
9	16.8,	232.3,	291.6,	-129.0,	97.7,	10	16.8,	276.5,	324.6,	-163.2,	99.6,
11	16.8,	315.2,	350.7,	-193.5,	98.0,	12	16.8,	344.4,	366.1,	-217.8,	93.4,
13	16.8,	363.1,	370.4,	-235.5,	86.0,	14	16.8,	370.8,	363.5,	-246.1,	76.0,
15	16.8,	367.2,	345.5,	-249.2,	63.6,	16	16.8,	352.4,	317.0,	-244.8,	49.3,
17	16.8,	327.0,	278.9,	-232.8,	33.6,	18	16.8,	291.6,	232.3,	-213.9,	16.8,
19	16.8,	324.6,	276.5,	-237.9,	-0.9,	20	16.8,	350.7,	315.2,	-255.6,	-18.1,
21	16.8,	366.1,	344.4,	-265.6,	-34.8,	22	16.8,	370.4,	363.1,	-267.6,	-50.3,
23	16.8,	363.5,	370.8,	-261.4,	-64.4,	24	16.8,	345.5,	367.2,	-247.2,	-76.5,
25	16.8,	317.0,	352.4,	-225.6,	-86.2,	26	16.8,	278.9,	327.0,	-197.1,	-93.4,
27	16.8,	232.3,	291.6,	-162.6,	-97.7,	28	16.8,	276.5,	324.6,	-161.4,	-99.6,
29	16.8,	315.2,	350.7,	-157.2,	-98.0,	30	16.8,	344.4,	366.1,	-148.3,	-93.4,
31	16.8,	363.1,	370.4,	-134.9,	-86.0,	32	16.8,	370.8,	363.5,	-117.3,	-76.0,
33	16.8,	367.2,	345.5,	-96.3,	-63.6,	34	16.8,	352.4,	317.0,	-72.2,	-49.3,
35	16.8,	327.0,	278.9,	-46.0,	-33.6,	36	16.8,	291.6,	232.3,	-18.4,	-16.8,

SOURCE ID: STCK100

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-39.4,	5.3,	2	16.8,	350.7,	315.2,	-61.1,	22.3,
3	16.8,	366.1,	344.4,	-81.0,	38.6,	4	16.8,	370.4,	363.1,	-98.4,	53.7,
5	16.8,	363.5,	370.8,	-112.8,	67.2,	6	16.8,	345.5,	367.2,	-123.8,	78.7,
7	16.8,	317.0,	352.4,	-131.0,	87.8,	8	16.8,	278.9,	327.0,	-134.3,	94.2,
9	16.8,	232.3,	291.6,	-133.5,	97.7,	10	16.8,	276.5,	324.6,	-167.6,	98.8,
11	16.8,	315.2,	350.7,	-197.6,	96.5,	12	16.8,	344.4,	366.1,	-221.6,	91.2,
13	16.8,	363.1,	370.4,	-238.9,	83.2,	14	16.8,	370.8,	363.5,	-249.0,	72.6,
15	16.8,	367.2,	345.5,	-251.4,	59.8,	16	16.8,	352.4,	317.0,	-246.3,	45.2,
17	16.8,	327.0,	278.9,	-233.6,	29.2,	18	16.8,	291.6,	232.3,	-213.9,	12.4,
19	16.8,	324.6,	276.5,	-237.1,	-5.3,	20	16.8,	350.7,	315.2,	-254.1,	-22.3,
21	16.8,	366.1,	344.4,	-263.4,	-38.6,	22	16.8,	370.4,	363.1,	-264.7,	-53.7,
23	16.8,	363.5,	370.8,	-258.0,	-67.2,	24	16.8,	345.5,	367.2,	-243.4,	-78.7,
25	16.8,	317.0,	352.4,	-221.4,	-87.8,	26	16.8,	278.9,	327.0,	-192.7,	-94.2,
27	16.8,	232.3,	291.6,	-158.2,	-97.7,	28	16.8,	276.5,	324.6,	-157.0,	-98.8,
29	16.8,	315.2,	350.7,	-153.1,	-96.5,	30	16.8,	344.4,	366.1,	-144.5,	-91.2,
31	16.8,	363.1,	370.4,	-131.5,	-83.2,	32	16.8,	370.8,	363.5,	-114.5,	-72.6,
33	16.8,	367.2,	345.5,	-94.0,	-59.8,	34	16.8,	352.4,	317.0,	-70.7,	-45.2,
35	16.8,	327.0,	278.9,	-45.3,	-29.2,	36	16.8,	291.6,	232.3,	-18.4,	-12.4,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK101

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-40.1,	9.4,	2	16.8,	350.7,	315.2,	-62.6,	26.2,
3	16.8,	366.1,	344.4,	-83.1,	42.2,	4	16.8,	370.4,	363.1,	-101.1,	56.9,
5	16.8,	363.5,	370.8,	-116.0,	69.9,	6	16.8,	345.5,	367.2,	-127.4,	80.8,
7	16.8,	317.0,	352.4,	-135.0,	89.2,	8	16.8,	278.9,	327.0,	-138.4,	94.9,
9	16.8,	232.3,	291.6,	-137.7,	97.7,	10	16.8,	276.5,	324.6,	-171.7,	98.1,
11	16.8,	315.2,	350.7,	-201.6,	95.1,	12	16.8,	344.4,	366.1,	-225.3,	89.1,
13	16.8,	363.1,	370.4,	-242.2,	80.5,	14	16.8,	370.8,	363.5,	-251.7,	69.4,
15	16.8,	367.2,	345.5,	-253.5,	56.2,	16	16.8,	352.4,	317.0,	-247.7,	41.2,
17	16.8,	327.0,	278.9,	-234.3,	25.1,	18	16.8,	291.6,	232.3,	-213.9,	8.2,
19	16.8,	324.6,	276.5,	-236.4,	-9.4,	20	16.8,	350.7,	315.2,	-252.7,	-26.2,
21	16.8,	366.1,	344.4,	-261.3,	-42.2,	22	16.8,	370.4,	363.1,	-262.0,	-56.9,
23	16.8,	363.5,	370.8,	-254.8,	-69.9,	24	16.8,	345.5,	367.2,	-239.8,	-80.8,
25	16.8,	317.0,	352.4,	-217.5,	-89.2,	26	16.8,	278.9,	327.0,	-188.6,	-94.9,
27	16.8,	232.3,	291.6,	-154.0,	-97.7,	28	16.8,	276.5,	324.6,	-152.9,	-98.1,
29	16.8,	315.2,	350.7,	-149.1,	-95.1,	30	16.8,	344.4,	366.1,	-140.8,	-89.1,
31	16.8,	363.1,	370.4,	-128.3,	-80.5,	32	16.8,	370.8,	363.5,	-111.8,	-69.4,
33	16.8,	367.2,	345.5,	-92.0,	-56.2,	34	16.8,	352.4,	317.0,	-69.3,	-41.2,
35	16.8,	327.0,	278.9,	-44.5,	-25.1,	36	16.8,	291.6,	232.3,	-18.4,	-8.2,

SOURCE ID: STCK102

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-40.9,	14.0,	2	16.8,	350.7,	315.2,	-64.1,	30.6,
3	16.8,	366.1,	344.4,	-85.4,	46.2,	4	16.8,	370.4,	363.1,	-104.1,	60.5,
5	16.8,	363.5,	370.8,	-119.6,	72.9,	6	16.8,	345.5,	367.2,	-131.5,	83.1,
7	16.8,	317.0,	352.4,	-139.3,	90.8,	8	16.8,	278.9,	327.0,	-143.0,	95.7,
9	16.8,	232.3,	291.6,	-142.3,	97.7,	10	16.8,	276.5,	324.6,	-176.3,	97.3,
11	16.8,	315.2,	350.7,	-205.9,	93.5,	12	16.8,	344.4,	366.1,	-229.3,	86.8,
13	16.8,	363.1,	370.4,	-245.7,	77.5,	14	16.8,	370.8,	363.5,	-254.6,	65.8,
15	16.8,	367.2,	345.5,	-255.8,	52.1,	16	16.8,	352.4,	317.0,	-249.3,	36.9,
17	16.8,	327.0,	278.9,	-235.1,	20.5,	18	16.8,	291.6,	232.3,	-213.9,	3.5,
19	16.8,	324.6,	276.5,	-235.6,	-14.0,	20	16.8,	350.7,	315.2,	-251.1,	-30.6,
21	16.8,	366.1,	344.4,	-259.0,	-46.2,	22	16.8,	370.4,	363.1,	-259.0,	-60.5,
23	16.8,	363.5,	370.8,	-251.2,	-72.9,	24	16.8,	345.5,	367.2,	-235.7,	-83.1,
25	16.8,	317.0,	352.4,	-213.1,	-90.8,	26	16.8,	278.9,	327.0,	-184.0,	-95.7,
27	16.8,	232.3,	291.6,	-149.3,	-97.7,	28	16.8,	276.5,	324.6,	-148.3,	-97.3,
29	16.8,	315.2,	350.7,	-144.8,	-93.5,	30	16.8,	344.4,	366.1,	-136.8,	-86.8,
31	16.8,	363.1,	370.4,	-124.7,	-77.5,	32	16.8,	370.8,	363.5,	-108.8,	-65.8,
33	16.8,	367.2,	345.5,	-89.6,	-52.1,	34	16.8,	352.4,	317.0,	-67.7,	-36.9,
35	16.8,	327.0,	278.9,	-43.8,	-20.5,	36	16.8,	291.6,	232.3,	-18.4,	-3.5,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK103

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-41.5,	17.2,	2	16.8,	350.7,	315.2,	-65.3,	33.7,
3	16.8,	366.1,	344.4,	-87.1,	49.1,	4	16.8,	370.4,	363.1,	-106.2,	63.0,
5	16.8,	363.5,	370.8,	-122.1,	75.0,	6	16.8,	345.5,	367.2,	-134.3,	84.8,
7	16.8,	317.0,	352.4,	-142.4,	91.9,	8	16.8,	278.9,	327.0,	-146.2,	96.3,
9	16.8,	232.3,	291.6,	-145.6,	97.7,	10	16.8,	276.5,	324.6,	-179.5,	96.7,
11	16.8,	315.2,	350.7,	-209.0,	92.3,	12	16.8,	344.4,	366.1,	-232.2,	85.1,
13	16.8,	363.1,	370.4,	-248.2,	75.4,	14	16.8,	370.8,	363.5,	-256.8,	63.3,
15	16.8,	367.2,	345.5,	-257.5,	49.3,	16	16.8,	352.4,	317.0,	-250.4,	33.8,
17	16.8,	327.0,	278.9,	-235.7,	17.3,	18	16.8,	291.6,	232.3,	-213.9,	0.2,
19	16.8,	324.6,	276.5,	-235.0,	-17.2,	20	16.8,	350.7,	315.2,	-250.0,	-33.7,
21	16.8,	366.1,	344.4,	-257.4,	-49.1,	22	16.8,	370.4,	363.1,	-256.9,	-63.0,
23	16.8,	363.5,	370.8,	-248.7,	-75.0,	24	16.8,	345.5,	367.2,	-232.9,	-84.8,
25	16.8,	317.0,	352.4,	-210.0,	-91.9,	26	16.8,	278.9,	327.0,	-180.8,	-96.3,
27	16.8,	232.3,	291.6,	-146.0,	-97.7,	28	16.8,	276.5,	324.6,	-145.0,	-96.7,
29	16.8,	315.2,	350.7,	-141.7,	-92.3,	30	16.8,	344.4,	366.1,	-134.0,	-85.1,
31	16.8,	363.1,	370.4,	-122.2,	-75.4,	32	16.8,	370.8,	363.5,	-106.7,	-63.3,
33	16.8,	367.2,	345.5,	-88.0,	-49.3,	34	16.8,	352.4,	317.0,	-66.6,	-33.8,
35	16.8,	327.0,	278.9,	-43.2,	-17.3,	36	16.8,	291.6,	232.3,	-18.4,	-0.2,

SOURCE ID: STCK104

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-42.2,	21.4,	2	16.8,	350.7,	315.2,	-66.7,	37.6,
3	16.8,	366.1,	344.4,	-89.2,	52.7,	4	16.8,	370.4,	363.1,	-108.9,	66.2,
5	16.8,	363.5,	370.8,	-125.3,	77.7,	6	16.8,	345.5,	367.2,	-138.0,	86.9,
7	16.8,	317.0,	352.4,	-146.4,	93.3,	8	16.8,	278.9,	327.0,	-150.4,	97.0,
9	16.8,	232.3,	291.6,	-149.8,	97.7,	10	16.8,	276.5,	324.6,	-183.7,	96.0,
11	16.8,	315.2,	350.7,	-213.0,	90.9,	12	16.8,	344.4,	366.1,	-235.8,	83.0,
13	16.8,	363.1,	370.4,	-251.5,	72.7,	14	16.8,	370.8,	363.5,	-259.5,	60.1,
15	16.8,	367.2,	345.5,	-259.6,	45.6,	16	16.8,	352.4,	317.0,	-251.9,	29.8,
17	16.8,	327.0,	278.9,	-236.4,	13.1,	18	16.8,	291.6,	232.3,	-213.9,	-4.0,
19	16.8,	324.6,	276.5,	-234.2,	-21.4,	20	16.8,	350.7,	315.2,	-248.5,	-37.6,
21	16.8,	366.1,	344.4,	-255.2,	-52.7,	22	16.8,	370.4,	363.1,	-254.2,	-66.2,
23	16.8,	363.5,	370.8,	-245.5,	-77.7,	24	16.8,	345.5,	367.2,	-229.2,	-86.9,
25	16.8,	317.0,	352.4,	-206.1,	-93.3,	26	16.8,	278.9,	327.0,	-176.6,	-97.0,
27	16.8,	232.3,	291.6,	-141.8,	-97.7,	28	16.8,	276.5,	324.6,	-140.9,	-96.0,
29	16.8,	315.2,	350.7,	-137.7,	-90.9,	30	16.8,	344.4,	366.1,	-130.3,	-83.0,
31	16.8,	363.1,	370.4,	-119.0,	-72.7,	32	16.8,	370.8,	363.5,	-104.0,	-60.1,
33	16.8,	367.2,	345.5,	-85.9,	-45.6,	34	16.8,	352.4,	317.0,	-65.1,	-29.8,
35	16.8,	327.0,	278.9,	-42.4,	-13.1,	36	16.8,	291.6,	232.3,	-18.4,	4.0,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK105

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-43.8,	30.5,	2	16.8,	350.7,	315.2,	-69.9,	46.3,
3	16.8,	366.1,	344.4,	-93.8,	60.8,	4	16.8,	370.4,	363.1,	-114.9,	73.3,
5	16.8,	363.5,	370.8,	-132.4,	83.7,	6	16.8,	345.5,	367.2,	-146.0,	91.5,
7	16.8,	317.0,	352.4,	-155.1,	96.5,	8	16.8,	278.9,	327.0,	-159.5,	98.6,
9	16.8,	232.3,	291.6,	-159.1,	97.7,	10	16.8,	276.5,	324.6,	-192.8,	94.4,
11	16.8,	315.2,	350.7,	-221.7,	87.7,	12	16.8,	344.4,	366.1,	-243.8,	78.4,
13	16.8,	363.1,	370.4,	-258.6,	66.7,	14	16.8,	370.8,	363.5,	-265.4,	53.0,
15	16.8,	367.2,	345.5,	-264.2,	37.6,	16	16.8,	352.4,	317.0,	-255.0,	21.1,
17	16.8,	327.0,	278.9,	-238.1,	4.0,	18	16.8,	291.6,	232.3,	-213.9,	-13.3,
19	16.8,	324.6,	276.5,	-232.6,	-30.5,	20	16.8,	350.7,	315.2,	-245.4,	-46.3,
21	16.8,	366.1,	344.4,	-250.6,	-60.8,	22	16.8,	370.4,	363.1,	-248.3,	-73.3,
23	16.8,	363.5,	370.8,	-238.4,	-83.7,	24	16.8,	345.5,	367.2,	-221.2,	-91.5,
25	16.8,	317.0,	352.4,	-197.4,	-96.5,	26	16.8,	278.9,	327.0,	-167.5,	-98.6,
27	16.8,	232.3,	291.6,	-132.5,	-97.7,	28	16.8,	276.5,	324.6,	-131.8,	-94.4,
29	16.8,	315.2,	350.7,	-129.0,	-87.7,	30	16.8,	344.4,	366.1,	-122.3,	-78.4,
31	16.8,	363.1,	370.4,	-111.9,	-66.7,	32	16.8,	370.8,	363.5,	-98.0,	-53.0,
33	16.8,	367.2,	345.5,	-81.2,	-37.6,	34	16.8,	352.4,	317.0,	-62.0,	-21.1,
35	16.8,	327.0,	278.9,	-40.8,	-4.0,	36	16.8,	291.6,	232.3,	-18.4,	13.3,

SOURCE ID: STCK106

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-44.4,	34.0,	2	16.8,	350.7,	315.2,	-71.1,	49.7,
3	16.8,	366.1,	344.4,	-95.6,	63.8,	4	16.8,	370.4,	363.1,	-117.1,	76.0,
5	16.8,	363.5,	370.8,	-135.2,	86.0,	6	16.8,	345.5,	367.2,	-149.1,	93.3,
7	16.8,	317.0,	352.4,	-158.4,	97.7,	8	16.8,	278.9,	327.0,	-163.0,	99.2,
9	16.8,	232.3,	291.6,	-162.6,	97.7,	10	16.8,	276.5,	324.6,	-196.3,	93.8,
11	16.8,	315.2,	350.7,	-225.0,	86.5,	12	16.8,	344.4,	366.1,	-246.9,	76.6,
13	16.8,	363.1,	370.4,	-261.3,	64.4,	14	16.8,	370.8,	363.5,	-267.7,	50.2,
15	16.8,	367.2,	345.5,	-266.0,	34.5,	16	16.8,	352.4,	317.0,	-256.2,	17.8,
17	16.8,	327.0,	278.9,	-238.7,	0.5,	18	16.8,	291.6,	232.3,	-213.9,	-16.8,
19	16.8,	324.6,	276.5,	-232.0,	-34.0,	20	16.8,	350.7,	315.2,	-244.1,	-49.7,
21	16.8,	366.1,	344.4,	-248.8,	-63.8,	22	16.8,	370.4,	363.1,	-246.0,	-76.0,
23	16.8,	363.5,	370.8,	-235.6,	-86.0,	24	16.8,	345.5,	367.2,	-218.2,	-93.3,
25	16.8,	317.0,	352.4,	-194.0,	-97.7,	26	16.8,	278.9,	327.0,	-164.0,	-99.2,
27	16.8,	232.3,	291.6,	-129.0,	-97.7,	28	16.8,	276.5,	324.6,	-128.3,	-93.8,
29	16.8,	315.2,	350.7,	-125.7,	-86.5,	30	16.8,	344.4,	366.1,	-119.2,	-76.6,
31	16.8,	363.1,	370.4,	-109.2,	-64.4,	32	16.8,	370.8,	363.5,	-95.8,	-50.2,
33	16.8,	367.2,	345.5,	-79.5,	-34.5,	34	16.8,	352.4,	317.0,	-60.8,	-17.8,
35	16.8,	327.0,	278.9,	-40.2,	-0.5,	36	16.8,	291.6,	232.3,	-18.4,	16.8,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK107

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-45.3,	38.8,	2	16.8,	350.7,	315.2,	-72.8,	54.2,
3	16.8,	366.1,	344.4,	-98.0,	68.0,	4	16.8,	370.4,	363.1,	-120.2,	79.8,
5	16.8,	363.5,	370.8,	-138.9,	89.1,	6	16.8,	345.5,	367.2,	-153.2,	95.7,
7	16.8,	317.0,	352.4,	-163.0,	99.4,	8	16.8,	278.9,	327.0,	-167.8,	100.1,
9	16.8,	232.3,	291.6,	-167.5,	97.7,	10	16.8,	276.5,	324.6,	-201.1,	92.9,
11	16.8,	315.2,	350.7,	-229.6,	84.9,	12	16.8,	344.4,	366.1,	-251.1,	74.2,
13	16.8,	363.1,	370.4,	-265.0,	61.3,	14	16.8,	370.8,	363.5,	-270.8,	46.5,
15	16.8,	367.2,	345.5,	-268.4,	30.4,	16	16.8,	352.4,	317.0,	-257.9,	13.2,
17	16.8,	327.0,	278.9,	-239.5,	-4.3,	18	16.8,	291.6,	232.3,	-213.9,	-21.7,
19	16.8,	324.6,	276.5,	-231.2,	-38.8,	20	16.8,	350.7,	315.2,	-242.5,	-54.2,
21	16.8,	366.1,	344.4,	-246.4,	-68.0,	22	16.8,	370.4,	363.1,	-242.9,	-79.8,
23	16.8,	363.5,	370.8,	-231.9,	-89.1,	24	16.8,	345.5,	367.2,	-214.0,	-95.7,
25	16.8,	317.0,	352.4,	-189.5,	-99.4,	26	16.8,	278.9,	327.0,	-159.2,	-100.1,
27	16.8,	232.3,	291.6,	-124.1,	-97.7,	28	16.8,	276.5,	324.6,	-123.5,	-92.9,
29	16.8,	315.2,	350.7,	-121.1,	-84.9,	30	16.8,	344.4,	366.1,	-115.0,	-74.2,
31	16.8,	363.1,	370.4,	-105.4,	-61.3,	32	16.8,	370.8,	363.5,	-92.7,	-46.5,
33	16.8,	367.2,	345.5,	-77.0,	-30.4,	34	16.8,	352.4,	317.0,	-59.1,	-13.2,
35	16.8,	327.0,	278.9,	-39.4,	4.3,	36	16.8,	291.6,	232.3,	-18.4,	21.7,

SOURCE ID: STCK108

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-46.1,	43.1,	2	16.8,	350.7,	315.2,	-74.3,	58.4,
3	16.8,	366.1,	344.4,	-100.2,	71.9,	4	16.8,	370.4,	363.1,	-123.1,	83.1,
5	16.8,	363.5,	370.8,	-142.2,	91.9,	6	16.8,	345.5,	367.2,	-157.1,	97.9,
7	16.8,	317.0,	352.4,	-167.1,	100.9,	8	16.8,	278.9,	327.0,	-172.1,	100.8,
9	16.8,	232.3,	291.6,	-171.9,	97.7,	10	16.8,	276.5,	324.6,	-205.4,	92.2,
11	16.8,	315.2,	350.7,	-233.7,	83.4,	12	16.8,	344.4,	366.1,	-254.9,	72.0,
13	16.8,	363.1,	370.4,	-268.4,	58.5,	14	16.8,	370.8,	363.5,	-273.7,	43.1,
15	16.8,	367.2,	345.5,	-270.6,	26.5,	16	16.8,	352.4,	317.0,	-259.4,	9.1,
17	16.8,	327.0,	278.9,	-240.3,	-8.6,	18	16.8,	291.6,	232.3,	-213.9,	-26.1,
19	16.8,	324.6,	276.5,	-230.4,	-43.1,	20	16.8,	350.7,	315.2,	-241.0,	-58.4,
21	16.8,	366.1,	344.4,	-244.2,	-71.9,	22	16.8,	370.4,	363.1,	-240.0,	-83.1,
23	16.8,	363.5,	370.8,	-228.5,	-91.9,	24	16.8,	345.5,	367.2,	-210.1,	-97.9,
25	16.8,	317.0,	352.4,	-185.3,	-100.9,	26	16.8,	278.9,	327.0,	-154.9,	-100.8,
27	16.8,	232.3,	291.6,	-119.7,	-97.7,	28	16.8,	276.5,	324.6,	-119.2,	-92.2,
29	16.8,	315.2,	350.7,	-117.0,	-83.4,	30	16.8,	344.4,	366.1,	-111.2,	-72.0,
31	16.8,	363.1,	370.4,	-102.0,	-58.5,	32	16.8,	370.8,	363.5,	-89.8,	-43.1,
33	16.8,	367.2,	345.5,	-74.8,	-26.5,	34	16.8,	352.4,	317.0,	-57.6,	-9.1,
35	16.8,	327.0,	278.9,	-38.6,	8.6,	36	16.8,	291.6,	232.3,	-18.4,	26.1,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK109

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-46.9,	47.7,	2	16.8,	350.7,	315.2,	-75.8,	62.7,
3	16.8,	366.1,	344.4,	-102.5,	75.9,	4	16.8,	370.4,	363.1,	-126.1,	86.7,
5	16.8,	363.5,	370.8,	-145.8,	94.9,	6	16.8,	345.5,	367.2,	-161.1,	100.2,
7	16.8,	317.0,	352.4,	-171.5,	102.5,	8	16.8,	278.9,	327.0,	-176.7,	101.6,
9	16.8,	232.3,	291.6,	-176.5,	97.7,	10	16.8,	276.5,	324.6,	-210.0,	91.4,
11	16.8,	315.2,	350.7,	-238.1,	81.8,	12	16.8,	344.4,	366.1,	-258.9,	69.7,
13	16.8,	363.1,	370.4,	-271.9,	55.5,	14	16.8,	370.8,	363.5,	-276.6,	39.6,
15	16.8,	367.2,	345.5,	-273.0,	22.5,	16	16.8,	352.4,	317.0,	-261.0,	4.7,
17	16.8,	327.0,	278.9,	-241.1,	-13.2,	18	16.8,	291.6,	232.3,	-213.9,	-30.7,
19	16.8,	324.6,	276.5,	-229.6,	-47.7,	20	16.8,	350.7,	315.2,	-239.4,	-62.7,
21	16.8,	366.1,	344.4,	-241.9,	-75.9,	22	16.8,	370.4,	363.1,	-237.0,	-86.7,
23	16.8,	363.5,	370.8,	-225.0,	-94.9,	24	16.8,	345.5,	367.2,	-206.1,	-100.2,
25	16.8,	317.0,	352.4,	-181.0,	-102.5,	26	16.8,	278.9,	327.0,	-150.3,	-101.6,
27	16.8,	232.3,	291.6,	-115.1,	-97.7,	28	16.8,	276.5,	324.6,	-114.6,	-91.4,
29	16.8,	315.2,	350.7,	-112.6,	-81.8,	30	16.8,	344.4,	366.1,	-107.2,	-69.7,
31	16.8,	363.1,	370.4,	-98.5,	-55.5,	32	16.8,	370.8,	363.5,	-86.8,	-39.6,
33	16.8,	367.2,	345.5,	-72.5,	-22.5,	34	16.8,	352.4,	317.0,	-56.0,	-4.7,
35	16.8,	327.0,	278.9,	-37.8,	13.2,	36	16.8,	291.6,	232.3,	-18.4,	30.7,

SOURCE ID: STCK110

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-47.5,	51.4,	2	16.8,	350.7,	315.2,	-77.1,	66.3,
3	16.8,	366.1,	344.4,	-104.4,	79.1,	4	16.8,	370.4,	363.1,	-128.5,	89.6,
5	16.8,	363.5,	370.8,	-148.7,	97.3,	6	16.8,	345.5,	367.2,	-164.3,	102.1,
7	16.8,	317.0,	352.4,	-175.0,	103.8,	8	16.8,	278.9,	327.0,	-180.4,	102.3,
9	16.8,	232.3,	291.6,	-180.3,	97.7,	10	16.8,	276.5,	324.6,	-213.7,	90.7,
11	16.8,	315.2,	350.7,	-241.6,	80.5,	12	16.8,	344.4,	366.1,	-262.2,	67.8,
13	16.8,	363.1,	370.4,	-274.8,	53.1,	14	16.8,	370.8,	363.5,	-279.1,	36.7,
15	16.8,	367.2,	345.5,	-274.8,	19.2,	16	16.8,	352.4,	317.0,	-262.3,	1.2,
17	16.8,	327.0,	278.9,	-241.7,	-16.9,	18	16.8,	291.6,	232.3,	-213.9,	-34.5,
19	16.8,	324.6,	276.5,	-229.0,	-51.4,	20	16.8,	350.7,	315.2,	-238.1,	-66.3,
21	16.8,	366.1,	344.4,	-240.0,	-79.1,	22	16.8,	370.4,	363.1,	-234.6,	-89.6,
23	16.8,	363.5,	370.8,	-222.1,	-97.3,	24	16.8,	345.5,	367.2,	-202.9,	-102.1,
25	16.8,	317.0,	352.4,	-177.4,	-103.8,	26	16.8,	278.9,	327.0,	-146.6,	-102.3,
27	16.8,	232.3,	291.6,	-111.3,	-97.7,	28	16.8,	276.5,	324.6,	-110.9,	-90.7,
29	16.8,	315.2,	350.7,	-109.1,	-80.5,	30	16.8,	344.4,	366.1,	-103.9,	-67.8,
31	16.8,	363.1,	370.4,	-95.6,	-53.1,	32	16.8,	370.8,	363.5,	-84.4,	-36.7,
33	16.8,	367.2,	345.5,	-70.6,	-19.2,	34	16.8,	352.4,	317.0,	-54.7,	-1.2,
35	16.8,	327.0,	278.9,	-37.1,	16.9,	36	16.8,	291.6,	232.3,	-18.4,	34.5,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK111

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-48.3,	56.0,	2	16.8,	350.7,	315.2,	-78.7,	70.6,
3	16.8,	366.1,	344.4,	-106.7,	83.1,	4	16.8,	370.4,	363.1,	-131.5,	93.1,
5	16.8,	363.5,	370.8,	-152.2,	100.3,	6	16.8,	345.5,	367.2,	-168.4,	104.4,
7	16.8,	317.0,	352.4,	-179.4,	105.3,	8	16.8,	278.9,	327.0,	-185.0,	103.1,
9	16.8,	232.3,	291.6,	-184.9,	97.7,	10	16.8,	276.5,	324.6,	-218.2,	89.9,
11	16.8,	315.2,	350.7,	-246.0,	78.9,	12	16.8,	344.4,	366.1,	-266.2,	65.5,
13	16.8,	363.1,	370.4,	-278.3,	50.1,	14	16.8,	370.8,	363.5,	-282.0,	33.2,
15	16.8,	367.2,	345.5,	-277.2,	15.2,	16	16.8,	352.4,	317.0,	-263.9,	-3.2,
17	16.8,	327.0,	278.9,	-242.5,	-21.4,	18	16.8,	291.6,	232.3,	-213.9,	-39.1,
19	16.8,	324.6,	276.5,	-228.2,	-56.0,	20	16.8,	350.7,	315.2,	-236.5,	-70.6,
21	16.8,	366.1,	344.4,	-237.7,	-83.1,	22	16.8,	370.4,	363.1,	-231.7,	-93.1,
23	16.8,	363.5,	370.8,	-218.6,	-100.3,	24	16.8,	345.5,	367.2,	-198.8,	-104.4,
25	16.8,	317.0,	352.4,	-173.1,	-105.3,	26	16.8,	278.9,	327.0,	-142.0,	-103.1,
27	16.8,	232.3,	291.6,	-106.7,	-97.7,	28	16.8,	276.5,	324.6,	-106.3,	-89.9,
29	16.8,	315.2,	350.7,	-104.7,	-78.9,	30	16.8,	344.4,	366.1,	-99.9,	-65.5,
31	16.8,	363.1,	370.4,	-92.1,	-50.1,	32	16.8,	370.8,	363.5,	-81.4,	-33.2,
33	16.8,	367.2,	345.5,	-68.3,	-15.2,	34	16.8,	352.4,	317.0,	-53.1,	3.2,
35	16.8,	327.0,	278.9,	-36.3,	21.4,	36	16.8,	291.6,	232.3,	-18.4,	39.1,

SOURCE ID: STCK112

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-49.8,	64.4,	2	16.8,	350.7,	315.2,	-81.7,	78.7,
3	16.8,	366.1,	344.4,	-111.0,	90.6,	4	16.8,	370.4,	363.1,	-137.0,	99.7,
5	16.8,	363.5,	370.8,	-158.8,	105.8,	6	16.8,	345.5,	367.2,	-175.8,	108.7,
7	16.8,	317.0,	352.4,	-187.5,	108.3,	8	16.8,	278.9,	327.0,	-193.4,	104.6,
9	16.8,	232.3,	291.6,	-193.5,	97.7,	10	16.8,	276.5,	324.6,	-226.7,	88.4,
11	16.8,	315.2,	350.7,	-254.1,	76.0,	12	16.8,	344.4,	366.1,	-273.7,	61.2,
13	16.8,	363.1,	370.4,	-284.9,	44.5,	14	16.8,	370.8,	363.5,	-287.6,	26.6,
15	16.8,	367.2,	345.5,	-281.5,	7.8,	16	16.8,	352.4,	317.0,	-266.8,	-11.2,
17	16.8,	327.0,	278.9,	-244.0,	-29.9,	18	16.8,	291.6,	232.3,	-213.9,	-47.7,
19	16.8,	324.6,	276.5,	-226.7,	-64.4,	20	16.8,	350.7,	315.2,	-233.6,	-78.7,
21	16.8,	366.1,	344.4,	-233.4,	-90.6,	22	16.8,	370.4,	363.1,	-226.1,	-99.7,
23	16.8,	363.5,	370.8,	-212.0,	-105.8,	24	16.8,	345.5,	367.2,	-191.4,	-108.7,
25	16.8,	317.0,	352.4,	-165.0,	-108.3,	26	16.8,	278.9,	327.0,	-133.6,	-104.6,
27	16.8,	232.3,	291.6,	-98.1,	-97.7,	28	16.8,	276.5,	324.6,	-97.8,	-88.4,
29	16.8,	315.2,	350.7,	-96.6,	-76.0,	30	16.8,	344.4,	366.1,	-92.5,	-61.2,
31	16.8,	363.1,	370.4,	-85.5,	-44.5,	32	16.8,	370.8,	363.5,	-75.9,	-26.6,
33	16.8,	367.2,	345.5,	-64.0,	-7.8,	34	16.8,	352.4,	317.0,	-50.2,	11.2,
35	16.8,	327.0,	278.9,	-34.8,	29.9,	36	16.8,	291.6,	232.3,	-18.4,	47.7,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK113

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-50.6,	68.8,	2	16.8,	350.7,	315.2,	-83.2,	82.9,
3	16.8,	366.1,	344.4,	-113.2,	94.4,	4	16.8,	370.4,	363.1,	-139.8,	103.1,
5	16.8,	363.5,	370.8,	-162.2,	108.7,	6	16.8,	345.5,	367.2,	-179.6,	110.9,
7	16.8,	317.0,	352.4,	-191.6,	109.8,	8	16.8,	278.9,	327.0,	-197.8,	105.4,
9	16.8,	232.3,	291.6,	-197.9,	97.7,	10	16.8,	276.5,	324.6,	-231.1,	87.6,
11	16.8,	315.2,	350.7,	-258.2,	74.5,	12	16.8,	344.4,	366.1,	-277.5,	59.0,
13	16.8,	363.1,	370.4,	-288.3,	41.7,	14	16.8,	370.8,	363.5,	-290.4,	23.2,
15	16.8,	367.2,	345.5,	-283.7,	4.0,	16	16.8,	352.4,	317.0,	-268.3,	-15.4,
17	16.8,	327.0,	278.9,	-244.8,	-34.3,	18	16.8,	291.6,	232.3,	-213.9,	-52.1,
19	16.8,	324.6,	276.5,	-225.9,	-68.8,	20	16.8,	350.7,	315.2,	-232.1,	-82.9,
21	16.8,	366.1,	344.4,	-231.2,	-94.4,	22	16.8,	370.4,	363.1,	-223.3,	-103.1,
23	16.8,	363.5,	370.8,	-208.6,	-108.7,	24	16.8,	345.5,	367.2,	-187.6,	-110.9,
25	16.8,	317.0,	352.4,	-160.8,	-109.8,	26	16.8,	278.9,	327.0,	-129.2,	-105.4,
27	16.8,	232.3,	291.6,	-93.7,	-97.7,	28	16.8,	276.5,	324.6,	-93.5,	-87.6,
29	16.8,	315.2,	350.7,	-92.5,	-74.5,	30	16.8,	344.4,	366.1,	-88.6,	-59.0,
31	16.8,	363.1,	370.4,	-82.1,	-41.7,	32	16.8,	370.8,	363.5,	-73.1,	-23.2,
33	16.8,	367.2,	345.5,	-61.8,	-4.0,	34	16.8,	352.4,	317.0,	-48.7,	15.4,
35	16.8,	327.0,	278.9,	-34.1,	34.3,	36	16.8,	291.6,	232.3,	-18.4,	52.1,

SOURCE ID: STCK114

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-51.2,	72.3,	2	16.8,	350.7,	315.2,	-84.4,	86.2,
3	16.8,	366.1,	344.4,	-115.0,	97.5,	4	16.8,	370.4,	363.1,	-142.1,	105.8,
5	16.8,	363.5,	370.8,	-164.9,	110.9,	6	16.8,	345.5,	367.2,	-182.7,	112.7,
7	16.8,	317.0,	352.4,	-194.9,	111.0,	8	16.8,	278.9,	327.0,	-201.2,	106.0,
9	16.8,	232.3,	291.6,	-201.5,	97.7,	10	16.8,	276.5,	324.6,	-234.6,	87.0,
11	16.8,	315.2,	350.7,	-261.5,	73.2,	12	16.8,	344.4,	366.1,	-280.5,	57.2,
13	16.8,	363.1,	370.4,	-291.0,	39.4,	14	16.8,	370.8,	363.5,	-292.7,	20.5,
15	16.8,	367.2,	345.5,	-285.4,	0.9,	16	16.8,	352.4,	317.0,	-269.5,	-18.7,
17	16.8,	327.0,	278.9,	-245.4,	-37.8,	18	16.8,	291.6,	232.3,	-213.9,	-55.6,
19	16.8,	324.6,	276.5,	-225.3,	-72.3,	20	16.8,	350.7,	315.2,	-230.9,	-86.2,
21	16.8,	366.1,	344.4,	-229.4,	-97.5,	22	16.8,	370.4,	363.1,	-221.0,	-105.8,
23	16.8,	363.5,	370.8,	-205.9,	-110.9,	24	16.8,	345.5,	367.2,	-184.5,	-112.7,
25	16.8,	317.0,	352.4,	-157.5,	-111.0,	26	16.8,	278.9,	327.0,	-125.7,	-106.0,
27	16.8,	232.3,	291.6,	-90.1,	-97.7,	28	16.8,	276.5,	324.6,	-90.0,	-87.0,
29	16.8,	315.2,	350.7,	-89.2,	-73.2,	30	16.8,	344.4,	366.1,	-85.6,	-57.2,
31	16.8,	363.1,	370.4,	-79.4,	-39.4,	32	16.8,	370.8,	363.5,	-70.8,	-20.5,
33	16.8,	367.2,	345.5,	-60.0,	-0.9,	34	16.8,	352.4,	317.0,	-47.5,	18.7,
35	16.8,	327.0,	278.9,	-33.5,	37.8,	36	16.8,	291.6,	232.3,	-18.4,	55.6,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK115

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-52.0,	76.6,	2	16.8,	350.7,	315.2,	-85.9,	90.3,
3	16.8,	366.1,	344.4,	-117.2,	101.3,	4	16.8,	370.4,	363.1,	-145.0,	109.2,
5	16.8,	363.5,	370.8,	-168.3,	113.8,	6	16.8,	345.5,	367.2,	-186.5,	114.9,
7	16.8,	317.0,	352.4,	-199.1,	112.5,	8	16.8,	278.9,	327.0,	-205.6,	106.7,
9	16.8,	232.3,	291.6,	-205.9,	97.7,	10	16.8,	276.5,	324.6,	-238.9,	86.3,
11	16.8,	315.2,	350.7,	-265.7,	71.7,	12	16.8,	344.4,	366.1,	-284.4,	55.0,
13	16.8,	363.1,	370.4,	-294.4,	36.6,	14	16.8,	370.8,	363.5,	-295.5,	17.1,
15	16.8,	367.2,	345.5,	-287.6,	-2.9,	16	16.8,	352.4,	317.0,	-271.0,	-22.9,
17	16.8,	327.0,	278.9,	-246.2,	-42.1,	18	16.8,	291.6,	232.3,	-213.9,	-60.1,
19	16.8,	324.6,	276.5,	-224.5,	-76.6,	20	16.8,	350.7,	315.2,	-229.3,	-90.3,
21	16.8,	366.1,	344.4,	-227.2,	-101.3,	22	16.8,	370.4,	363.1,	-218.2,	-109.2,
23	16.8,	363.5,	370.8,	-202.5,	-113.8,	24	16.8,	345.5,	367.2,	-180.7,	-114.9,
25	16.8,	317.0,	352.4,	-153.4,	-112.5,	26	16.8,	278.9,	327.0,	-121.4,	-106.7,
27	16.8,	232.3,	291.6,	-85.7,	-97.7,	28	16.8,	276.5,	324.6,	-85.7,	-86.3,
29	16.8,	315.2,	350.7,	-85.0,	-71.7,	30	16.8,	344.4,	366.1,	-81.8,	-55.0,
31	16.8,	363.1,	370.4,	-76.0,	-36.6,	32	16.8,	370.8,	363.5,	-68.0,	-17.1,
33	16.8,	367.2,	345.5,	-57.8,	2.9,	34	16.8,	352.4,	317.0,	-46.0,	22.9,
35	16.8,	327.0,	278.9,	-32.7,	42.1,	36	16.8,	291.6,	232.3,	-18.4,	60.1,

SOURCE ID: STCK116

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-52.8,	81.6,	2	16.8,	350.7,	315.2,	-87.6,	95.1,
3	16.8,	366.1,	344.4,	-119.7,	105.7,	4	16.8,	370.4,	363.1,	-148.2,	113.1,
5	16.8,	363.5,	370.8,	-172.2,	117.0,	6	16.8,	345.5,	367.2,	-190.9,	117.4,
7	16.8,	317.0,	352.4,	-203.9,	114.3,	8	16.8,	278.9,	327.0,	-210.6,	107.6,
9	16.8,	232.3,	291.6,	-211.0,	97.7,	10	16.8,	276.5,	324.6,	-243.9,	85.4,
11	16.8,	315.2,	350.7,	-270.4,	70.0,	12	16.8,	344.4,	366.1,	-288.8,	52.5,
13	16.8,	363.1,	370.4,	-298.3,	33.3,	14	16.8,	370.8,	363.5,	-298.8,	13.2,
15	16.8,	367.2,	345.5,	-290.2,	-7.3,	16	16.8,	352.4,	317.0,	-272.8,	-27.6,
17	16.8,	327.0,	278.9,	-247.1,	-47.1,	18	16.8,	291.6,	232.3,	-213.9,	-65.1,
19	16.8,	324.6,	276.5,	-223.6,	-81.6,	20	16.8,	350.7,	315.2,	-227.6,	-95.1,
21	16.8,	366.1,	344.4,	-224.7,	-105.7,	22	16.8,	370.4,	363.1,	-214.9,	-113.1,
23	16.8,	363.5,	370.8,	-198.6,	-117.0,	24	16.8,	345.5,	367.2,	-176.3,	-117.4,
25	16.8,	317.0,	352.4,	-148.6,	-114.3,	26	16.8,	278.9,	327.0,	-116.4,	-107.6,
27	16.8,	232.3,	291.6,	-80.6,	-97.7,	28	16.8,	276.5,	324.6,	-80.7,	-85.4,
29	16.8,	315.2,	350.7,	-80.2,	-70.0,	30	16.8,	344.4,	366.1,	-77.3,	-52.5,
31	16.8,	363.1,	370.4,	-72.1,	-33.3,	32	16.8,	370.8,	363.5,	-64.7,	-13.2,
33	16.8,	367.2,	345.5,	-55.3,	7.3,	34	16.8,	352.4,	317.0,	-44.2,	27.6,
35	16.8,	327.0,	278.9,	-31.8,	47.1,	36	16.8,	291.6,	232.3,	-18.4,	65.1,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK117

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-53.7,	86.2,	2	16.8,	350.7,	315.2,	-89.2,	99.5,
3	16.8,	366.1,	344.4,	-122.1,	109.7,	4	16.8,	370.4,	363.1,	-151.2,	116.6,
5	16.8,	363.5,	370.8,	-175.7,	120.0,	6	16.8,	345.5,	367.2,	-194.9,	119.8,
7	16.8,	317.0,	352.4,	-208.2,	115.8,	8	16.8,	278.9,	327.0,	-215.2,	108.4,
9	16.8,	232.3,	291.6,	-215.6,	97.7,	10	16.8,	276.5,	324.6,	-248.5,	84.6,
11	16.8,	315.2,	350.7,	-274.8,	68.4,	12	16.8,	344.4,	366.1,	-292.8,	50.1,
13	16.8,	363.1,	370.4,	-301.9,	30.4,	14	16.8,	370.8,	363.5,	-301.8,	9.7,
15	16.8,	367.2,	345.5,	-292.5,	-11.3,	16	16.8,	352.4,	317.0,	-274.4,	-32.0,
17	16.8,	327.0,	278.9,	-247.9,	-51.7,	18	16.8,	291.6,	232.3,	-213.9,	-69.8,
19	16.8,	324.6,	276.5,	-222.8,	-86.2,	20	16.8,	350.7,	315.2,	-226.0,	-99.5,
21	16.8,	366.1,	344.4,	-222.4,	-109.7,	22	16.8,	370.4,	363.1,	-211.9,	-116.6,
23	16.8,	363.5,	370.8,	-195.1,	-120.0,	24	16.8,	345.5,	367.2,	-172.3,	-119.8,
25	16.8,	317.0,	352.4,	-144.2,	-115.8,	26	16.8,	278.9,	327.0,	-111.8,	-108.4,
27	16.8,	232.3,	291.6,	-76.0,	-97.7,	28	16.8,	276.5,	324.6,	-76.1,	-84.6,
29	16.8,	315.2,	350.7,	-75.9,	-68.4,	30	16.8,	344.4,	366.1,	-73.3,	-50.1,
31	16.8,	363.1,	370.4,	-68.6,	-30.4,	32	16.8,	370.8,	363.5,	-61.7,	-9.7,
33	16.8,	367.2,	345.5,	-53.0,	11.3,	34	16.8,	352.4,	317.0,	-42.6,	32.0,
35	16.8,	327.0,	278.9,	-31.0,	51.7,	36	16.8,	291.6,	232.3,	-18.4,	69.8,

SOURCE ID: STCK118

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-54.3,	89.9,	2	16.8,	350.7,	315.2,	-90.5,	103.0,
3	16.8,	366.1,	344.4,	-123.9,	113.0,	4	16.8,	370.4,	363.1,	-153.6,	119.5,
5	16.8,	363.5,	370.8,	-178.6,	122.4,	6	16.8,	345.5,	367.2,	-198.2,	121.6,
7	16.8,	317.0,	352.4,	-211.8,	117.1,	8	16.8,	278.9,	327.0,	-218.9,	109.1,
9	16.8,	232.3,	291.6,	-219.3,	97.7,	10	16.8,	276.5,	324.6,	-252.2,	83.9,
11	16.8,	315.2,	350.7,	-278.3,	67.1,	12	16.8,	344.4,	366.1,	-296.0,	48.3,
13	16.8,	363.1,	370.4,	-304.7,	27.9,	14	16.8,	370.8,	363.5,	-304.2,	6.8,
15	16.8,	367.2,	345.5,	-294.4,	-14.6,	16	16.8,	352.4,	317.0,	-275.6,	-35.5,
17	16.8,	327.0,	278.9,	-248.5,	-55.4,	18	16.8,	291.6,	232.3,	-213.9,	-73.5,
19	16.8,	324.6,	276.5,	-222.2,	-89.9,	20	16.8,	350.7,	315.2,	-224.7,	-103.0,
21	16.8,	366.1,	344.4,	-220.5,	-113.0,	22	16.8,	370.4,	363.1,	-209.5,	-119.5,
23	16.8,	363.5,	370.8,	-192.2,	-122.4,	24	16.8,	345.5,	367.2,	-169.0,	-121.6,
25	16.8,	317.0,	352.4,	-140.7,	-117.1,	26	16.8,	278.9,	327.0,	-108.1,	-109.1,
27	16.8,	232.3,	291.6,	-72.3,	-97.7,	28	16.8,	276.5,	324.6,	-72.4,	-83.9,
29	16.8,	315.2,	350.7,	-72.3,	-67.1,	30	16.8,	344.4,	366.1,	-70.1,	-48.3,
31	16.8,	363.1,	370.4,	-65.7,	-27.9,	32	16.8,	370.8,	363.5,	-59.3,	-6.8,
33	16.8,	367.2,	345.5,	-51.1,	14.6,	34	16.8,	352.4,	317.0,	-41.4,	35.5,
35	16.8,	327.0,	278.9,	-30.4,	55.4,	36	16.8,	291.6,	232.3,	-18.4,	73.5,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK119

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-55.7,	97.7,	2	16.8,	350.7,	315.2,	-93.2,	110.5,
3	16.8,	366.1,	344.4,	-127.9,	119.8,	4	16.8,	370.4,	363.1,	-158.7,	125.6,
5	16.8,	363.5,	370.8,	-184.7,	127.5,	6	16.8,	345.5,	367.2,	-205.1,	125.6,
7	16.8,	317.0,	352.4,	-219.2,	119.8,	8	16.8,	278.9,	327.0,	-226.7,	110.5,
9	16.8,	232.3,	291.6,	-227.3,	97.7,	10	16.8,	276.5,	324.6,	-260.0,	82.5,
11	16.8,	315.2,	350.7,	-285.8,	64.4,	12	16.8,	344.4,	366.1,	-302.9,	44.3,
13	16.8,	363.1,	370.4,	-310.8,	22.8,	14	16.8,	370.8,	363.5,	-309.3,	0.7,
15	16.8,	367.2,	345.5,	-298.4,	-21.5,	16	16.8,	352.4,	317.0,	-278.4,	-43.0,
17	16.8,	327.0,	278.9,	-249.9,	-63.2,	18	16.8,	291.6,	232.3,	-213.9,	-81.5,
19	16.8,	324.6,	276.5,	-220.8,	-97.7,	20	16.8,	350.7,	315.2,	-222.0,	-110.5,
21	16.8,	366.1,	344.4,	-216.5,	-119.8,	22	16.8,	370.4,	363.1,	-204.4,	-125.6,
23	16.8,	363.5,	370.8,	-186.1,	-127.5,	24	16.8,	345.5,	367.2,	-162.1,	-125.6,
25	16.8,	317.0,	352.4,	-133.2,	-119.8,	26	16.8,	278.9,	327.0,	-100.3,	-110.5,
27	16.8,	232.3,	291.6,	-64.3,	-97.7,	28	16.8,	276.5,	324.6,	-64.6,	-82.5,
29	16.8,	315.2,	350.7,	-64.9,	-64.4,	30	16.8,	344.4,	366.1,	-63.2,	-44.3,
31	16.8,	363.1,	370.4,	-59.6,	-22.8,	32	16.8,	370.8,	363.5,	-54.2,	-0.7,
33	16.8,	367.2,	345.5,	-47.1,	21.5,	34	16.8,	352.4,	317.0,	-38.6,	43.0,
35	16.8,	327.0,	278.9,	-29.0,	63.2,	36	16.8,	291.6,	232.3,	-18.4,	81.5,

SOURCE ID: STCK120

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-56.5,	102.5,	2	16.8,	350.7,	315.2,	-94.9,	115.0,
3	16.8,	366.1,	344.4,	-130.3,	124.1,	4	16.8,	370.4,	363.1,	-161.8,	129.3,
5	16.8,	363.5,	370.8,	-188.4,	130.7,	6	16.8,	345.5,	367.2,	-209.3,	128.0,
7	16.8,	317.0,	352.4,	-223.8,	121.5,	8	16.8,	278.9,	327.0,	-231.5,	111.3,
9	16.8,	232.3,	291.6,	-232.2,	97.7,	10	16.8,	276.5,	324.6,	-264.8,	81.7,
11	16.8,	315.2,	350.7,	-290.4,	62.7,	12	16.8,	344.4,	366.1,	-307.1,	41.9,
13	16.8,	363.1,	370.4,	-314.5,	19.7,	14	16.8,	370.8,	363.5,	-312.4,	-3.0,
15	16.8,	367.2,	345.5,	-300.8,	-25.7,	16	16.8,	352.4,	317.0,	-280.0,	-47.6,
17	16.8,	327.0,	278.9,	-250.7,	-68.0,	18	16.8,	291.6,	232.3,	-213.9,	-86.3,
19	16.8,	324.6,	276.5,	-220.0,	-102.5,	20	16.8,	350.7,	315.2,	-220.4,	-115.0,
21	16.8,	366.1,	344.4,	-214.1,	-124.1,	22	16.8,	370.4,	363.1,	-201.3,	-129.3,
23	16.8,	363.5,	370.8,	-182.4,	-130.7,	24	16.8,	345.5,	367.2,	-157.9,	-128.0,
25	16.8,	317.0,	352.4,	-128.7,	-121.5,	26	16.8,	278.9,	327.0,	-95.5,	-111.3,
27	16.8,	232.3,	291.6,	-59.4,	-97.7,	28	16.8,	276.5,	324.6,	-59.8,	-81.7,
29	16.8,	315.2,	350.7,	-60.3,	-62.7,	30	16.8,	344.4,	366.1,	-59.0,	-41.9,
31	16.8,	363.1,	370.4,	-55.9,	-19.7,	32	16.8,	370.8,	363.5,	-51.1,	3.0,
33	16.8,	367.2,	345.5,	-44.7,	25.7,	34	16.8,	352.4,	317.0,	-37.0,	47.6,
35	16.8,	327.0,	278.9,	-28.1,	68.0,	36	16.8,	291.6,	232.3,	-18.4,	86.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK121

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-57.3,	106.6,	2	16.8,	350.7,	315.2,	-96.3,	119.0,
3	16.8,	366.1,	344.4,	-132.4,	127.7,	4	16.8,	370.4,	363.1,	-164.5,	132.5,
5	16.8,	363.5,	370.8,	-191.6,	133.4,	6	16.8,	345.5,	367.2,	-212.9,	130.1,
7	16.8,	317.0,	352.4,	-227.7,	123.0,	8	16.8,	278.9,	327.0,	-235.6,	112.0,
9	16.8,	232.3,	291.6,	-236.3,	97.7,	10	16.8,	276.5,	324.6,	-268.9,	81.0,
11	16.8,	315.2,	350.7,	-294.3,	61.3,	12	16.8,	344.4,	366.1,	-310.7,	39.8,
13	16.8,	363.1,	370.4,	-317.8,	17.0,	14	16.8,	370.8,	363.5,	-315.1,	-6.2,
15	16.8,	367.2,	345.5,	-302.9,	-29.3,	16	16.8,	352.4,	317.0,	-281.4,	-51.5,
17	16.8,	327.0,	278.9,	-251.5,	-72.1,	18	16.8,	291.6,	232.3,	-213.9,	-90.5,
19	16.8,	324.6,	276.5,	-219.2,	-106.6,	20	16.8,	350.7,	315.2,	-218.9,	-119.0,
21	16.8,	366.1,	344.4,	-212.0,	-127.7,	22	16.8,	370.4,	363.1,	-198.6,	-132.5,
23	16.8,	363.5,	370.8,	-179.2,	-133.4,	24	16.8,	345.5,	367.2,	-154.3,	-130.1,
25	16.8,	317.0,	352.4,	-124.7,	-123.0,	26	16.8,	278.9,	327.0,	-91.4,	-112.0,
27	16.8,	232.3,	291.6,	-55.3,	-97.7,	28	16.8,	276.5,	324.6,	-55.7,	-81.0,
29	16.8,	315.2,	350.7,	-56.4,	-61.3,	30	16.8,	344.4,	366.1,	-55.4,	-39.8,
31	16.8,	363.1,	370.4,	-52.7,	-17.0,	32	16.8,	370.8,	363.5,	-48.4,	6.2,
33	16.8,	367.2,	345.5,	-42.6,	29.3,	34	16.8,	352.4,	317.0,	-35.5,	51.5,
35	16.8,	327.0,	278.9,	-27.4,	72.1,	36	16.8,	291.6,	232.3,	-18.4,	90.5,

SOURCE ID: STCK122

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-58.0,	110.8,	2	16.8,	350.7,	315.2,	-97.8,	122.9,
3	16.8,	366.1,	344.4,	-134.5,	131.3,	4	16.8,	370.4,	363.1,	-167.2,	135.8,
5	16.8,	363.5,	370.8,	-194.9,	136.1,	6	16.8,	345.5,	367.2,	-216.6,	132.2,
7	16.8,	317.0,	352.4,	-231.7,	124.4,	8	16.8,	278.9,	327.0,	-239.8,	112.8,
9	16.8,	232.3,	291.6,	-240.5,	97.7,	10	16.8,	276.5,	324.6,	-273.1,	80.2,
11	16.8,	315.2,	350.7,	-298.2,	59.9,	12	16.8,	344.4,	366.1,	-314.4,	37.7,
13	16.8,	363.1,	370.4,	-321.0,	14.3,	14	16.8,	370.8,	363.5,	-317.8,	-9.5,
15	16.8,	367.2,	345.5,	-305.0,	-32.9,	16	16.8,	352.4,	317.0,	-282.9,	-55.4,
17	16.8,	327.0,	278.9,	-252.2,	-76.2,	18	16.8,	291.6,	232.3,	-213.9,	-94.7,
19	16.8,	324.6,	276.5,	-218.5,	-110.8,	20	16.8,	350.7,	315.2,	-217.5,	-122.9,
21	16.8,	366.1,	344.4,	-209.9,	-131.3,	22	16.8,	370.4,	363.1,	-195.9,	-135.8,
23	16.8,	363.5,	370.8,	-175.9,	-136.1,	24	16.8,	345.5,	367.2,	-150.7,	-132.2,
25	16.8,	317.0,	352.4,	-120.8,	-124.4,	26	16.8,	278.9,	327.0,	-87.2,	-112.8,
27	16.8,	232.3,	291.6,	-51.1,	-97.7,	28	16.8,	276.5,	324.6,	-51.5,	-80.2,
29	16.8,	315.2,	350.7,	-52.4,	-59.9,	30	16.8,	344.4,	366.1,	-51.7,	-37.7,
31	16.8,	363.1,	370.4,	-49.4,	-14.3,	32	16.8,	370.8,	363.5,	-45.7,	9.5,
33	16.8,	367.2,	345.5,	-40.5,	32.9,	34	16.8,	352.4,	317.0,	-34.1,	55.4,
35	16.8,	327.0,	278.9,	-26.7,	76.2,	36	16.8,	291.6,	232.3,	-18.4,	94.7,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK123

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-58.6,	114.5,	2	16.8,	350.7,	315.2,	-99.0,	126.4,
3	16.8,	366.1,	344.4,	-136.4,	134.6,	4	16.8,	370.4,	363.1,	-169.6,	138.6,
5	16.8,	363.5,	370.8,	-197.7,	138.5,	6	16.8,	345.5,	367.2,	-219.8,	134.1,
7	16.8,	317.0,	352.4,	-235.2,	125.7,	8	16.8,	278.9,	327.0,	-243.4,	113.4,
9	16.8,	232.3,	291.6,	-244.3,	97.7,	10	16.8,	276.5,	324.6,	-276.7,	79.6,
11	16.8,	315.2,	350.7,	-301.8,	58.6,	12	16.8,	344.4,	366.1,	-317.6,	35.8,
13	16.8,	363.1,	370.4,	-323.8,	11.9,	14	16.8,	370.8,	363.5,	-320.2,	-12.3,
15	16.8,	367.2,	345.5,	-306.9,	-36.2,	16	16.8,	352.4,	317.0,	-284.2,	-59.0,
17	16.8,	327.0,	278.9,	-252.9,	-79.9,	18	16.8,	291.6,	232.3,	-213.9,	-98.5,
19	16.8,	324.6,	276.5,	-217.8,	-114.5,	20	16.8,	350.7,	315.2,	-216.2,	-126.4,
21	16.8,	366.1,	344.4,	-208.0,	-134.6,	22	16.8,	370.4,	363.1,	-193.5,	-138.6,
23	16.8,	363.5,	370.8,	-173.1,	-138.5,	24	16.8,	345.5,	367.2,	-147.4,	-134.1,
25	16.8,	317.0,	352.4,	-117.3,	-125.7,	26	16.8,	278.9,	327.0,	-83.5,	-113.4,
27	16.8,	232.3,	291.6,	-47.3,	-97.7,	28	16.8,	276.5,	324.6,	-47.8,	-79.6,
29	16.8,	315.2,	350.7,	-48.9,	-58.6,	30	16.8,	344.4,	366.1,	-48.5,	-35.8,
31	16.8,	363.1,	370.4,	-46.6,	-11.9,	32	16.8,	370.8,	363.5,	-43.3,	12.3,
33	16.8,	367.2,	345.5,	-38.6,	36.2,	34	16.8,	352.4,	317.0,	-32.8,	59.0,
35	16.8,	327.0,	278.9,	-26.0,	79.9,	36	16.8,	291.6,	232.3,	-18.4,	98.5,

SOURCE ID: STCK124

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-251.5,	82.1,	2	16.8,	350.7,	315.2,	-283.3,	61.1,
3	16.8,	366.1,	344.4,	-306.6,	38.3,	4	16.8,	370.4,	363.1,	-320.5,	14.2,
5	16.8,	363.5,	370.8,	-324.7,	-10.2,	6	16.8,	345.5,	367.2,	-319.0,	-34.4,
7	16.8,	317.0,	352.4,	-303.6,	-57.5,	8	16.8,	278.9,	327.0,	-279.0,	-78.8,
9	16.8,	232.3,	291.6,	-246.0,	-97.8,	10	16.8,	276.5,	324.6,	-244.4,	-113.2,
11	16.8,	315.2,	350.7,	-236.5,	-125.7,	12	16.8,	344.4,	366.1,	-221.3,	-134.3,
13	16.8,	363.1,	370.4,	-199.5,	-138.9,	14	16.8,	370.8,	363.5,	-171.5,	-139.3,
15	16.8,	367.2,	345.5,	-138.4,	-135.4,	16	16.8,	352.4,	317.0,	-101.0,	-127.4,
17	16.8,	327.0,	278.9,	-60.6,	-115.5,	18	16.8,	291.6,	232.3,	-18.4,	-100.1,
19	16.8,	324.6,	276.5,	-25.0,	-82.1,	20	16.8,	350.7,	315.2,	-31.9,	-61.1,
21	16.8,	366.1,	344.4,	-37.9,	-38.3,	22	16.8,	370.4,	363.1,	-42.6,	-14.2,
23	16.8,	363.5,	370.8,	-46.1,	10.2,	24	16.8,	345.5,	367.2,	-48.2,	34.4,
25	16.8,	317.0,	352.4,	-48.8,	57.5,	26	16.8,	278.9,	327.0,	-48.0,	78.8,
27	16.8,	232.3,	291.6,	-45.6,	97.8,	28	16.8,	276.5,	324.6,	-80.2,	113.2,
29	16.8,	315.2,	350.7,	-114.2,	125.7,	30	16.8,	344.4,	366.1,	-144.8,	134.3,
31	16.8,	363.1,	370.4,	-171.0,	138.9,	32	16.8,	370.8,	363.5,	-192.0,	139.3,
33	16.8,	367.2,	345.5,	-207.1,	135.4,	34	16.8,	352.4,	317.0,	-216.0,	127.4,
35	16.8,	327.0,	278.9,	-218.3,	115.5,	36	16.8,	291.6,	232.3,	-213.9,	100.1,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK125

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-250.0,	73.6,	2	16.8,	350.7,	315.2,	-280.4,	53.0,
3	16.8,	366.1,	344.4,	-302.2,	30.8,	4	16.8,	370.4,	363.1,	-314.9,	7.6,
5	16.8,	363.5,	370.8,	-318.1,	-15.8,	6	16.8,	345.5,	367.2,	-311.5,	-38.7,
7	16.8,	317.0,	352.4,	-295.5,	-60.4,	8	16.8,	278.9,	327.0,	-270.5,	-80.3,
9	16.8,	232.3,	291.6,	-237.3,	-97.8,	10	16.8,	276.5,	324.6,	-236.0,	-111.7,
11	16.8,	315.2,	350.7,	-228.4,	-122.8,	12	16.8,	344.4,	366.1,	-213.9,	-130.0,
13	16.8,	363.1,	370.4,	-192.9,	-133.4,	14	16.8,	370.8,	363.5,	-166.0,	-132.7,
15	16.8,	367.2,	345.5,	-134.1,	-127.9,	16	16.8,	352.4,	317.0,	-98.1,	-119.3,
17	16.8,	327.0,	278.9,	-59.1,	-107.0,	18	16.8,	291.6,	232.3,	-18.4,	-91.5,
19	16.8,	324.6,	276.5,	-26.5,	-73.6,	20	16.8,	350.7,	315.2,	-34.9,	-53.0,
21	16.8,	366.1,	344.4,	-42.2,	-30.8,	22	16.8,	370.4,	363.1,	-48.2,	-7.6,
23	16.8,	363.5,	370.8,	-52.7,	15.8,	24	16.8,	345.5,	367.2,	-55.7,	38.7,
25	16.8,	317.0,	352.4,	-56.9,	60.4,	26	16.8,	278.9,	327.0,	-56.4,	80.3,
27	16.8,	232.3,	291.6,	-54.3,	97.8,	28	16.8,	276.5,	324.6,	-88.6,	111.7,
29	16.8,	315.2,	350.7,	-122.3,	122.8,	30	16.8,	344.4,	366.1,	-152.2,	130.0,
31	16.8,	363.1,	370.4,	-177.6,	133.4,	32	16.8,	370.8,	363.5,	-197.5,	132.7,
33	16.8,	367.2,	345.5,	-211.4,	127.9,	34	16.8,	352.4,	317.0,	-218.9,	119.3,
35	16.8,	327.0,	278.9,	-219.8,	107.0,	36	16.8,	291.6,	232.3,	-213.9,	91.5,

SOURCE ID: STCK126

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-249.2,	69.3,	2	16.8,	350.7,	315.2,	-278.9,	48.9,
3	16.8,	366.1,	344.4,	-300.0,	27.0,	4	16.8,	370.4,	363.1,	-312.1,	4.3,
5	16.8,	363.5,	370.8,	-314.7,	-18.6,	6	16.8,	345.5,	367.2,	-307.7,	-40.9,
7	16.8,	317.0,	352.4,	-291.4,	-61.9,	8	16.8,	278.9,	327.0,	-266.2,	-81.1,
9	16.8,	232.3,	291.6,	-232.9,	-97.8,	10	16.8,	276.5,	324.6,	-231.6,	-111.0,
11	16.8,	315.2,	350.7,	-224.2,	-121.2,	12	16.8,	344.4,	366.1,	-210.0,	-127.8,
13	16.8,	363.1,	370.4,	-189.5,	-130.6,	14	16.8,	370.8,	363.5,	-163.2,	-129.3,
15	16.8,	367.2,	345.5,	-131.9,	-124.1,	16	16.8,	352.4,	317.0,	-96.6,	-115.2,
17	16.8,	327.0,	278.9,	-58.3,	-102.7,	18	16.8,	291.6,	232.3,	-18.4,	-87.1,
19	16.8,	324.6,	276.5,	-27.3,	-69.3,	20	16.8,	350.7,	315.2,	-36.4,	-48.9,
21	16.8,	366.1,	344.4,	-44.4,	-27.0,	22	16.8,	370.4,	363.1,	-51.0,	-4.3,
23	16.8,	363.5,	370.8,	-56.1,	18.6,	24	16.8,	345.5,	367.2,	-59.5,	40.9,
25	16.8,	317.0,	352.4,	-61.1,	61.9,	26	16.8,	278.9,	327.0,	-60.8,	81.1,
27	16.8,	232.3,	291.6,	-58.7,	97.8,	28	16.8,	276.5,	324.6,	-93.0,	111.0,
29	16.8,	315.2,	350.7,	-126.4,	121.2,	30	16.8,	344.4,	366.1,	-156.1,	127.8,
31	16.8,	363.1,	370.4,	-181.0,	130.6,	32	16.8,	370.8,	363.5,	-200.3,	129.3,
33	16.8,	367.2,	345.5,	-213.6,	124.1,	34	16.8,	352.4,	317.0,	-220.4,	115.2,
35	16.8,	327.0,	278.9,	-220.5,	102.7,	36	16.8,	291.6,	232.3,	-213.9,	87.1,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK127

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-248.5,	65.4,	2	16.8,	350.7,	315.2,	-277.5,	45.1,
3	16.8,	366.1,	344.4,	-298.1,	23.5,	4	16.8,	370.4,	363.1,	-309.5,	1.2,
5	16.8,	363.5,	370.8,	-311.6,	-21.2,	6	16.8,	345.5,	367.2,	-304.3,	-42.9,
7	16.8,	317.0,	352.4,	-287.6,	-63.3,	8	16.8,	278.9,	327.0,	-262.3,	-81.8,
9	16.8,	232.3,	291.6,	-229.0,	-97.8,	10	16.8,	276.5,	324.6,	-227.7,	-110.3,
11	16.8,	315.2,	350.7,	-220.5,	-119.9,	12	16.8,	344.4,	366.1,	-206.6,	-125.8,
13	16.8,	363.1,	370.4,	-186.4,	-128.0,	14	16.8,	370.8,	363.5,	-160.6,	-126.2,
15	16.8,	367.2,	345.5,	-129.9,	-120.7,	16	16.8,	352.4,	317.0,	-95.2,	-111.4,
17	16.8,	327.0,	278.9,	-57.7,	-98.8,	18	16.8,	291.6,	232.3,	-18.4,	-83.1,
19	16.8,	324.6,	276.5,	-28.0,	-65.4,	20	16.8,	350.7,	315.2,	-37.7,	-45.1,
21	16.8,	366.1,	344.4,	-46.4,	-23.5,	22	16.8,	370.4,	363.1,	-53.6,	-1.2,
23	16.8,	363.5,	370.8,	-59.1,	21.2,	24	16.8,	345.5,	367.2,	-62.9,	42.9,
25	16.8,	317.0,	352.4,	-64.8,	63.3,	26	16.8,	278.9,	327.0,	-64.7,	81.8,
27	16.8,	232.3,	291.6,	-62.6,	97.8,	28	16.8,	276.5,	324.6,	-96.9,	110.3,
29	16.8,	315.2,	350.7,	-130.2,	119.9,	30	16.8,	344.4,	366.1,	-159.5,	125.8,
31	16.8,	363.1,	370.4,	-184.0,	128.0,	32	16.8,	370.8,	363.5,	-202.9,	126.2,
33	16.8,	367.2,	345.5,	-215.6,	120.7,	34	16.8,	352.4,	317.0,	-221.8,	111.4,
35	16.8,	327.0,	278.9,	-221.2,	98.8,	36	16.8,	291.6,	232.3,	-213.9,	83.1,

SOURCE ID: STCK128

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-247.7,	60.8,	2	16.8,	350.7,	315.2,	-275.9,	40.8,
3	16.8,	366.1,	344.4,	-295.7,	19.5,	4	16.8,	370.4,	363.1,	-306.6,	-2.3,
5	16.8,	363.5,	370.8,	-308.1,	-24.1,	6	16.8,	345.5,	367.2,	-300.2,	-45.2,
7	16.8,	317.0,	352.4,	-283.3,	-64.9,	8	16.8,	278.9,	327.0,	-257.7,	-82.6,
9	16.8,	232.3,	291.6,	-224.3,	-97.8,	10	16.8,	276.5,	324.6,	-223.1,	-109.5,
11	16.8,	315.2,	350.7,	-216.1,	-118.3,	12	16.8,	344.4,	366.1,	-202.6,	-123.5,
13	16.8,	363.1,	370.4,	-182.9,	-125.0,	14	16.8,	370.8,	363.5,	-157.6,	-122.7,
15	16.8,	367.2,	345.5,	-127.5,	-116.6,	16	16.8,	352.4,	317.0,	-93.6,	-107.1,
17	16.8,	327.0,	278.9,	-56.8,	-94.2,	18	16.8,	291.6,	232.3,	-18.4,	-78.5,
19	16.8,	324.6,	276.5,	-28.8,	-60.8,	20	16.8,	350.7,	315.2,	-39.3,	-40.8,
21	16.8,	366.1,	344.4,	-48.7,	-19.5,	22	16.8,	370.4,	363.1,	-56.5,	2.3,
23	16.8,	363.5,	370.8,	-62.7,	24.1,	24	16.8,	345.5,	367.2,	-67.0,	45.2,
25	16.8,	317.0,	352.4,	-69.2,	64.9,	26	16.8,	278.9,	327.0,	-69.3,	82.6,
27	16.8,	232.3,	291.6,	-67.3,	97.8,	28	16.8,	276.5,	324.6,	-101.5,	109.5,
29	16.8,	315.2,	350.7,	-134.5,	118.3,	30	16.8,	344.4,	366.1,	-163.5,	123.5,
31	16.8,	363.1,	370.4,	-187.6,	125.0,	32	16.8,	370.8,	363.5,	-205.9,	122.7,
33	16.8,	367.2,	345.5,	-217.9,	116.6,	34	16.8,	352.4,	317.0,	-223.4,	107.1,
35	16.8,	327.0,	278.9,	-222.0,	94.2,	36	16.8,	291.6,	232.3,	-213.9,	78.5,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK129

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-246.9,	56.0,	2	16.8,	350.7,	315.2,	-274.2,	36.2,
3	16.8,	366.1,	344.4,	-293.3,	15.3,	4	16.8,	370.4,	363.1,	-303.4,	-6.1,
5	16.8,	363.5,	370.8,	-304.4,	-27.2,	6	16.8,	345.5,	367.2,	-296.0,	-47.6,
7	16.8,	317.0,	352.4,	-278.7,	-66.5,	8	16.8,	278.9,	327.0,	-252.9,	-83.4,
9	16.8,	232.3,	291.6,	-219.5,	-97.8,	10	16.8,	276.5,	324.6,	-218.3,	-108.6,
11	16.8,	315.2,	350.7,	-211.6,	-116.6,	12	16.8,	344.4,	366.1,	-198.4,	-121.1,
13	16.8,	363.1,	370.4,	-179.2,	-121.9,	14	16.8,	370.8,	363.5,	-154.5,	-119.0,
15	16.8,	367.2,	345.5,	-125.1,	-112.4,	16	16.8,	352.4,	317.0,	-92.0,	-102.5,
17	16.8,	327.0,	278.9,	-56.0,	-89.4,	18	16.8,	291.6,	232.3,	-18.4,	-73.7,
19	16.8,	324.6,	276.5,	-29.6,	-56.0,	20	16.8,	350.7,	315.2,	-41.0,	-36.2,
21	16.8,	366.1,	344.4,	-51.1,	-15.3,	22	16.8,	370.4,	363.1,	-59.7,	6.1,
23	16.8,	363.5,	370.8,	-66.4,	27.2,	24	16.8,	345.5,	367.2,	-71.2,	47.6,
25	16.8,	317.0,	352.4,	-73.7,	66.5,	26	16.8,	278.9,	327.0,	-74.1,	83.4,
27	16.8,	232.3,	291.6,	-72.1,	97.8,	28	16.8,	276.5,	324.6,	-106.2,	108.6,
29	16.8,	315.2,	350.7,	-139.1,	116.6,	30	16.8,	344.4,	366.1,	-167.7,	121.1,
31	16.8,	363.1,	370.4,	-191.3,	121.9,	32	16.8,	370.8,	363.5,	-209.0,	119.0,
33	16.8,	367.2,	345.5,	-220.4,	112.4,	34	16.8,	352.4,	317.0,	-225.0,	102.5,
35	16.8,	327.0,	278.9,	-222.9,	89.4,	36	16.8,	291.6,	232.3,	-213.9,	73.7,

SOURCE ID: STCK130

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-246.3,	53.0,	2	16.8,	350.7,	315.2,	-273.2,	33.3,
3	16.8,	366.1,	344.4,	-291.8,	12.7,	4	16.8,	370.4,	363.1,	-301.5,	-8.4,
5	16.8,	363.5,	370.8,	-302.0,	-29.2,	6	16.8,	345.5,	367.2,	-293.4,	-49.2,
7	16.8,	317.0,	352.4,	-275.8,	-67.6,	8	16.8,	278.9,	327.0,	-249.9,	-84.0,
9	16.8,	232.3,	291.6,	-216.4,	-97.8,	10	16.8,	276.5,	324.6,	-215.3,	-108.1,
11	16.8,	315.2,	350.7,	-208.7,	-115.6,	12	16.8,	344.4,	366.1,	-195.7,	-119.5,
13	16.8,	363.1,	370.4,	-176.8,	-119.9,	14	16.8,	370.8,	363.5,	-152.5,	-116.6,
15	16.8,	367.2,	345.5,	-123.6,	-109.8,	16	16.8,	352.4,	317.0,	-90.9,	-99.6,
17	16.8,	327.0,	278.9,	-55.5,	-86.4,	18	16.8,	291.6,	232.3,	-18.4,	-70.6,
19	16.8,	324.6,	276.5,	-30.2,	-53.0,	20	16.8,	350.7,	315.2,	-42.0,	-33.3,
21	16.8,	366.1,	344.4,	-52.6,	-12.7,	22	16.8,	370.4,	363.1,	-61.7,	8.4,
23	16.8,	363.5,	370.8,	-68.8,	29.2,	24	16.8,	345.5,	367.2,	-73.8,	49.2,
25	16.8,	317.0,	352.4,	-76.6,	67.6,	26	16.8,	278.9,	327.0,	-77.1,	84.0,
27	16.8,	232.3,	291.6,	-75.2,	97.8,	28	16.8,	276.5,	324.6,	-109.3,	108.1,
29	16.8,	315.2,	350.7,	-142.0,	115.6,	30	16.8,	344.4,	366.1,	-170.4,	119.5,
31	16.8,	363.1,	370.4,	-193.6,	119.9,	32	16.8,	370.8,	363.5,	-211.0,	116.6,
33	16.8,	367.2,	345.5,	-221.9,	109.8,	34	16.8,	352.4,	317.0,	-226.1,	99.6,
35	16.8,	327.0,	278.9,	-223.4,	86.4,	36	16.8,	291.6,	232.3,	-213.9,	70.6,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK131

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-245.6,	48.6,	2	16.8,	350.7,	315.2,	-271.7,	29.2,
3	16.8,	366.1,	344.4,	-289.6,	8.8,	4	16.8,	370.4,	363.1,	-298.6,	-11.8,
5	16.8,	363.5,	370.8,	-298.6,	-32.1,	6	16.8,	345.5,	367.2,	-289.5,	-51.4,
7	16.8,	317.0,	352.4,	-271.7,	-69.1,	8	16.8,	278.9,	327.0,	-245.5,	-84.7,
9	16.8,	232.3,	291.6,	-212.0,	-97.8,	10	16.8,	276.5,	324.6,	-210.9,	-107.3,
11	16.8,	315.2,	350.7,	-204.5,	-114.1,	12	16.8,	344.4,	366.1,	-191.9,	-117.3,
13	16.8,	363.1,	370.4,	-173.4,	-117.1,	14	16.8,	370.8,	363.5,	-149.7,	-113.2,
15	16.8,	367.2,	345.5,	-121.4,	-105.9,	16	16.8,	352.4,	317.0,	-89.4,	-95.4,
17	16.8,	327.0,	278.9,	-54.7,	-82.0,	18	16.8,	291.6,	232.3,	-18.4,	-66.1,
19	16.8,	324.6,	276.5,	-30.9,	-48.6,	20	16.8,	350.7,	315.2,	-43.5,	-29.2,
21	16.8,	366.1,	344.4,	-54.9,	-8.8,	22	16.8,	370.4,	363.1,	-64.5,	11.8,
23	16.8,	363.5,	370.8,	-72.2,	32.1,	24	16.8,	345.5,	367.2,	-77.7,	51.4,
25	16.8,	317.0,	352.4,	-80.8,	69.1,	26	16.8,	278.9,	327.0,	-81.5,	84.7,
27	16.8,	232.3,	291.6,	-79.6,	97.8,	28	16.8,	276.5,	324.6,	-113.6,	107.3,
29	16.8,	315.2,	350.7,	-146.2,	114.1,	30	16.8,	344.4,	366.1,	-174.2,	117.3,
31	16.8,	363.1,	370.4,	-197.0,	117.1,	32	16.8,	370.8,	363.5,	-213.8,	113.2,
33	16.8,	367.2,	345.5,	-224.1,	105.9,	34	16.8,	352.4,	317.0,	-227.6,	95.4,
35	16.8,	327.0,	278.9,	-224.2,	82.0,	36	16.8,	291.6,	232.3,	-213.9,	66.1,

SOURCE ID: STCK132

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-244.0,	39.9,	2	16.8,	350.7,	315.2,	-268.7,	20.9,
3	16.8,	366.1,	344.4,	-285.1,	1.2,	4	16.8,	370.4,	363.1,	-292.9,	-18.6,
5	16.8,	363.5,	370.8,	-291.9,	-37.8,	6	16.8,	345.5,	367.2,	-281.9,	-55.8,
7	16.8,	317.0,	352.4,	-263.4,	-72.1,	8	16.8,	278.9,	327.0,	-236.8,	-86.3,
9	16.8,	232.3,	291.6,	-203.1,	-97.8,	10	16.8,	276.5,	324.6,	-202.2,	-105.8,
11	16.8,	315.2,	350.7,	-196.2,	-111.0,	12	16.8,	344.4,	366.1,	-184.2,	-112.9,
13	16.8,	363.1,	370.4,	-166.6,	-111.4,	14	16.8,	370.8,	363.5,	-144.0,	-106.5,
15	16.8,	367.2,	345.5,	-117.0,	-98.3,	16	16.8,	352.4,	317.0,	-86.4,	-87.1,
17	16.8,	327.0,	278.9,	-53.2,	-73.3,	18	16.8,	291.6,	232.3,	-18.4,	-57.3,
19	16.8,	324.6,	276.5,	-32.5,	-39.9,	20	16.8,	350.7,	315.2,	-46.6,	-20.9,
21	16.8,	366.1,	344.4,	-59.3,	-1.2,	22	16.8,	370.4,	363.1,	-70.2,	18.6,
23	16.8,	363.5,	370.8,	-78.9,	37.8,	24	16.8,	345.5,	367.2,	-85.3,	55.8,
25	16.8,	317.0,	352.4,	-89.1,	72.1,	26	16.8,	278.9,	327.0,	-90.1,	86.3,
27	16.8,	232.3,	291.6,	-88.5,	97.8,	28	16.8,	276.5,	324.6,	-122.3,	105.8,
29	16.8,	315.2,	350.7,	-154.5,	111.0,	30	16.8,	344.4,	366.1,	-181.9,	112.9,
31	16.8,	363.1,	370.4,	-203.8,	111.4,	32	16.8,	370.8,	363.5,	-219.5,	106.5,
33	16.8,	367.2,	345.5,	-228.5,	98.3,	34	16.8,	352.4,	317.0,	-230.6,	87.1,
35	16.8,	327.0,	278.9,	-225.7,	73.3,	36	16.8,	291.6,	232.3,	-213.9,	57.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK133

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-243.3,	36.0,	2	16.8,	350.7,	315.2,	-267.3,	17.1,
3	16.8,	366.1,	344.4,	-283.1,	-2.3,	4	16.8,	370.4,	363.1,	-290.4,	-21.6,
5	16.8,	363.5,	370.8,	-288.8,	-40.3,	6	16.8,	345.5,	367.2,	-278.4,	-57.8,
7	16.8,	317.0,	352.4,	-259.6,	-73.5,	8	16.8,	278.9,	327.0,	-232.9,	-87.0,
9	16.8,	232.3,	291.6,	-199.1,	-97.8,	10	16.8,	276.5,	324.6,	-198.3,	-105.1,
11	16.8,	315.2,	350.7,	-192.5,	-109.7,	12	16.8,	344.4,	366.1,	-180.8,	-110.9,
13	16.8,	363.1,	370.4,	-163.6,	-108.8,	14	16.8,	370.8,	363.5,	-141.4,	-103.4,
15	16.8,	367.2,	345.5,	-115.0,	-94.8,	16	16.8,	352.4,	317.0,	-85.0,	-83.4,
17	16.8,	327.0,	278.9,	-52.5,	-69.4,	18	16.8,	291.6,	232.3,	-18.4,	-53.3,
19	16.8,	324.6,	276.5,	-33.1,	-36.0,	20	16.8,	350.7,	315.2,	-47.9,	-17.1,
21	16.8,	366.1,	344.4,	-61.3,	2.3,	22	16.8,	370.4,	363.1,	-72.7,	21.6,
23	16.8,	363.5,	370.8,	-82.0,	40.3,	24	16.8,	345.5,	367.2,	-88.8,	57.8,
25	16.8,	317.0,	352.4,	-92.8,	73.5,	26	16.8,	278.9,	327.0,	-94.1,	87.0,
27	16.8,	232.3,	291.6,	-92.5,	97.8,	28	16.8,	276.5,	324.6,	-126.3,	105.1,
29	16.8,	315.2,	350.7,	-158.2,	109.7,	30	16.8,	344.4,	366.1,	-185.3,	110.9,
31	16.8,	363.1,	370.4,	-206.8,	108.8,	32	16.8,	370.8,	363.5,	-222.1,	103.4,
33	16.8,	367.2,	345.5,	-230.5,	94.8,	34	16.8,	352.4,	317.0,	-232.0,	83.4,
35	16.8,	327.0,	278.9,	-226.4,	69.4,	36	16.8,	291.6,	232.3,	-213.9,	53.3,

SOURCE ID: STCK134

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-242.6,	31.7,	2	16.8,	350.7,	315.2,	-265.8,	13.0,
3	16.8,	366.1,	344.4,	-280.9,	-6.1,	4	16.8,	370.4,	363.1,	-287.6,	-25.0,
5	16.8,	363.5,	370.8,	-285.4,	-43.1,	6	16.8,	345.5,	367.2,	-274.6,	-60.0,
7	16.8,	317.0,	352.4,	-255.5,	-75.0,	8	16.8,	278.9,	327.0,	-228.6,	-87.7,
9	16.8,	232.3,	291.6,	-194.7,	-97.8,	10	16.8,	276.5,	324.6,	-194.0,	-104.3,
11	16.8,	315.2,	350.7,	-188.3,	-108.2,	12	16.8,	344.4,	366.1,	-177.0,	-108.7,
13	16.8,	363.1,	370.4,	-160.2,	-106.0,	14	16.8,	370.8,	363.5,	-138.6,	-100.0,
15	16.8,	367.2,	345.5,	-112.8,	-91.0,	16	16.8,	352.4,	317.0,	-83.5,	-79.3,
17	16.8,	327.0,	278.9,	-51.7,	-65.1,	18	16.8,	291.6,	232.3,	-18.4,	-48.9,
19	16.8,	324.6,	276.5,	-33.9,	-31.7,	20	16.8,	350.7,	315.2,	-49.4,	-13.0,
21	16.8,	366.1,	344.4,	-63.5,	6.1,	22	16.8,	370.4,	363.1,	-75.6,	25.0,
23	16.8,	363.5,	370.8,	-85.4,	43.1,	24	16.8,	345.5,	367.2,	-92.6,	60.0,
25	16.8,	317.0,	352.4,	-97.0,	75.0,	26	16.8,	278.9,	327.0,	-98.4,	87.7,
27	16.8,	232.3,	291.6,	-96.9,	97.8,	28	16.8,	276.5,	324.6,	-130.6,	104.3,
29	16.8,	315.2,	350.7,	-162.3,	108.2,	30	16.8,	344.4,	366.1,	-189.2,	108.7,
31	16.8,	363.1,	370.4,	-210.2,	106.0,	32	16.8,	370.8,	363.5,	-224.9,	100.0,
33	16.8,	367.2,	345.5,	-232.7,	91.0,	34	16.8,	352.4,	317.0,	-233.5,	79.3,
35	16.8,	327.0,	278.9,	-227.2,	65.1,	36	16.8,	291.6,	232.3,	-213.9,	48.9,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK135

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-241.8,	27.3,	2	16.8,	350.7,	315.2,	-264.3,	8.8,
3	16.8,	366.1,	344.4,	-278.7,	-9.9,	4	16.8,	370.4,	363.1,	-284.7,	-28.4,
5	16.8,	363.5,	370.8,	-282.0,	-46.0,	6	16.8,	345.5,	367.2,	-270.8,	-62.2,
7	16.8,	317.0,	352.4,	-251.3,	-76.5,	8	16.8,	278.9,	327.0,	-224.2,	-88.5,
9	16.8,	232.3,	291.6,	-190.3,	-97.8,	10	16.8,	276.5,	324.6,	-189.6,	-103.6,
11	16.8,	315.2,	350.7,	-184.2,	-106.7,	12	16.8,	344.4,	366.1,	-173.1,	-106.5,
13	16.8,	363.1,	370.4,	-156.8,	-103.1,	14	16.8,	370.8,	363.5,	-135.8,	-96.6,
15	16.8,	367.2,	345.5,	-110.5,	-87.2,	16	16.8,	352.4,	317.0,	-82.0,	-75.1,
17	16.8,	327.0,	278.9,	-50.9,	-60.7,	18	16.8,	291.6,	232.3,	-18.4,	-44.5,
19	16.8,	324.6,	276.5,	-34.7,	-27.3,	20	16.8,	350.7,	315.2,	-51.0,	-8.8,
21	16.8,	366.1,	344.4,	-65.7,	9.9,	22	16.8,	370.4,	363.1,	-78.4,	28.4,
23	16.8,	363.5,	370.8,	-88.8,	46.0,	24	16.8,	345.5,	367.2,	-96.4,	62.2,
25	16.8,	317.0,	352.4,	-101.1,	76.5,	26	16.8,	278.9,	327.0,	-102.8,	88.5,
27	16.8,	232.3,	291.6,	-101.3,	97.8,	28	16.8,	276.5,	324.6,	-135.0,	103.6,
29	16.8,	315.2,	350.7,	-166.5,	106.7,	30	16.8,	344.4,	366.1,	-193.0,	106.5,
31	16.8,	363.1,	370.4,	-213.6,	103.1,	32	16.8,	370.8,	363.5,	-227.7,	96.6,
33	16.8,	367.2,	345.5,	-234.9,	87.2,	34	16.8,	352.4,	317.0,	-235.0,	75.1,
35	16.8,	327.0,	278.9,	-227.9,	60.7,	36	16.8,	291.6,	232.3,	-213.9,	44.5,

SOURCE ID: STCK136

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-241.1,	23.2,	2	16.8,	350.7,	315.2,	-262.8,	4.9,
3	16.8,	366.1,	344.4,	-276.6,	-13.6,	4	16.8,	370.4,	363.1,	-282.0,	-31.6,
5	16.8,	363.5,	370.8,	-278.8,	-48.7,	6	16.8,	345.5,	367.2,	-267.2,	-64.3,
7	16.8,	317.0,	352.4,	-247.4,	-77.9,	8	16.8,	278.9,	327.0,	-220.1,	-89.2,
9	16.8,	232.3,	291.6,	-186.1,	-97.8,	10	16.8,	276.5,	324.6,	-185.5,	-102.8,
11	16.8,	315.2,	350.7,	-180.2,	-105.2,	12	16.8,	344.4,	366.1,	-169.5,	-104.4,
13	16.8,	363.1,	370.4,	-153.6,	-100.5,	14	16.8,	370.8,	363.5,	-133.1,	-93.4,
15	16.8,	367.2,	345.5,	-108.5,	-83.6,	16	16.8,	352.4,	317.0,	-80.6,	-71.2,
17	16.8,	327.0,	278.9,	-50.2,	-56.6,	18	16.8,	291.6,	232.3,	-18.4,	-40.3,
19	16.8,	324.6,	276.5,	-35.4,	-23.2,	20	16.8,	350.7,	315.2,	-52.4,	-4.9,
21	16.8,	366.1,	344.4,	-67.8,	13.6,	22	16.8,	370.4,	363.1,	-81.1,	31.6,
23	16.8,	363.5,	370.8,	-92.0,	48.7,	24	16.8,	345.5,	367.2,	-100.0,	64.3,
25	16.8,	317.0,	352.4,	-105.1,	77.9,	26	16.8,	278.9,	327.0,	-106.9,	89.2,
27	16.8,	232.3,	291.6,	-105.5,	97.8,	28	16.8,	276.5,	324.6,	-139.1,	102.8,
29	16.8,	315.2,	350.7,	-170.4,	105.2,	30	16.8,	344.4,	366.1,	-196.6,	104.4,
31	16.8,	363.1,	370.4,	-216.8,	100.5,	32	16.8,	370.8,	363.5,	-230.4,	93.4,
33	16.8,	367.2,	345.5,	-237.0,	83.6,	34	16.8,	352.4,	317.0,	-236.4,	71.2,
35	16.8,	327.0,	278.9,	-228.7,	56.6,	36	16.8,	291.6,	232.3,	-213.9,	40.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK137

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-240.3,	18.9,	2	16.8,	350.7,	315.2,	-261.3,	0.8,
3	16.8,	366.1,	344.4,	-274.4,	-17.4,	4	16.8,	370.4,	363.1,	-279.2,	-35.0,
5	16.8,	363.5,	370.8,	-275.4,	-51.5,	6	16.8,	345.5,	367.2,	-263.3,	-66.5,
7	16.8,	317.0,	352.4,	-243.2,	-79.5,	8	16.8,	278.9,	327.0,	-215.8,	-90.0,
9	16.8,	232.3,	291.6,	-181.7,	-97.8,	10	16.8,	276.5,	324.6,	-181.2,	-102.1,
11	16.8,	315.2,	350.7,	-176.1,	-103.7,	12	16.8,	344.4,	366.1,	-165.7,	-102.2,
13	16.8,	363.1,	370.4,	-150.2,	-97.6,	14	16.8,	370.8,	363.5,	-130.2,	-90.0,
15	16.8,	367.2,	345.5,	-106.2,	-79.7,	16	16.8,	352.4,	317.0,	-79.0,	-67.0,
17	16.8,	327.0,	278.9,	-49.4,	-52.2,	18	16.8,	291.6,	232.3,	-18.4,	-35.9,
19	16.8,	324.6,	276.5,	-36.2,	-18.9,	20	16.8,	350.7,	315.2,	-53.9,	-0.8,
21	16.8,	366.1,	344.4,	-70.0,	17.4,	22	16.8,	370.4,	363.1,	-83.9,	35.0,
23	16.8,	363.5,	370.8,	-95.3,	51.5,	24	16.8,	345.5,	367.2,	-103.9,	66.5,
25	16.8,	317.0,	352.4,	-109.2,	79.5,	26	16.8,	278.9,	327.0,	-111.2,	90.0,
27	16.8,	232.3,	291.6,	-109.9,	97.8,	28	16.8,	276.5,	324.6,	-143.4,	102.1,
29	16.8,	315.2,	350.7,	-174.6,	103.7,	30	16.8,	344.4,	366.1,	-200.4,	102.2,
31	16.8,	363.1,	370.4,	-220.2,	97.6,	32	16.8,	370.8,	363.5,	-233.3,	90.0,
33	16.8,	367.2,	345.5,	-239.2,	79.7,	34	16.8,	352.4,	317.0,	-238.0,	67.0,
35	16.8,	327.0,	278.9,	-229.4,	52.2,	36	16.8,	291.6,	232.3,	-213.9,	35.9,

SOURCE ID: STCK138

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-239.6,	14.7,	2	16.8,	350.7,	315.2,	-259.9,	-3.2,
3	16.8,	366.1,	344.4,	-272.3,	-21.0,	4	16.8,	370.4,	363.1,	-276.5,	-38.2,
5	16.8,	363.5,	370.8,	-272.2,	-54.2,	6	16.8,	345.5,	367.2,	-259.7,	-68.6,
7	16.8,	317.0,	352.4,	-239.3,	-80.9,	8	16.8,	278.9,	327.0,	-211.6,	-90.7,
9	16.8,	232.3,	291.6,	-177.5,	-97.8,	10	16.8,	276.5,	324.6,	-177.0,	-101.3,
11	16.8,	315.2,	350.7,	-172.1,	-102.3,	12	16.8,	344.4,	366.1,	-162.0,	-100.1,
13	16.8,	363.1,	370.4,	-147.0,	-94.9,	14	16.8,	370.8,	363.5,	-127.5,	-86.8,
15	16.8,	367.2,	345.5,	-104.1,	-76.1,	16	16.8,	352.4,	317.0,	-77.6,	-63.1,
17	16.8,	327.0,	278.9,	-48.7,	-48.1,	18	16.8,	291.6,	232.3,	-18.4,	-31.7,
19	16.8,	324.6,	276.5,	-36.9,	-14.7,	20	16.8,	350.7,	315.2,	-55.3,	3.2,
21	16.8,	366.1,	344.4,	-72.1,	21.0,	22	16.8,	370.4,	363.1,	-86.6,	38.2,
23	16.8,	363.5,	370.8,	-98.6,	54.2,	24	16.8,	345.5,	367.2,	-107.5,	68.6,
25	16.8,	317.0,	352.4,	-113.2,	80.9,	26	16.8,	278.9,	327.0,	-115.4,	90.7,
27	16.8,	232.3,	291.6,	-114.1,	97.8,	28	16.8,	276.5,	324.6,	-147.6,	101.3,
29	16.8,	315.2,	350.7,	-178.5,	102.3,	30	16.8,	344.4,	366.1,	-204.1,	100.1,
31	16.8,	363.1,	370.4,	-223.4,	94.9,	32	16.8,	370.8,	363.5,	-236.0,	86.8,
33	16.8,	367.2,	345.5,	-241.3,	76.1,	34	16.8,	352.4,	317.0,	-239.4,	63.1,
35	16.8,	327.0,	278.9,	-230.2,	48.1,	36	16.8,	291.6,	232.3,	-213.9,	31.7,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK139

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-238.1,	6.2,	2	16.8,	350.7,	315.2,	-256.9,	-11.3,
3	16.8,	366.1,	344.4,	-268.0,	-28.5,	4	16.8,	370.4,	363.1,	-270.9,	-44.8,
5	16.8,	363.5,	370.8,	-265.6,	-59.8,	6	16.8,	345.5,	367.2,	-252.2,	-72.9,
7	16.8,	317.0,	352.4,	-231.2,	-83.8,	8	16.8,	278.9,	327.0,	-203.1,	-92.2,
9	16.8,	232.3,	291.6,	-168.9,	-97.8,	10	16.8,	276.5,	324.6,	-168.5,	-99.8,
11	16.8,	315.2,	350.7,	-164.1,	-99.3,	12	16.8,	344.4,	366.1,	-154.6,	-95.8,
13	16.8,	363.1,	370.4,	-140.4,	-89.4,	14	16.8,	370.8,	363.5,	-122.0,	-80.2,
15	16.8,	367.2,	345.5,	-99.8,	-68.6,	16	16.8,	352.4,	317.0,	-74.7,	-55.0,
17	16.8,	327.0,	278.9,	-47.2,	-39.6,	18	16.8,	291.6,	232.3,	-18.4,	-23.1,
19	16.8,	324.6,	276.5,	-38.4,	-6.2,	20	16.8,	350.7,	315.2,	-58.3,	11.3,
21	16.8,	366.1,	344.4,	-76.4,	28.5,	22	16.8,	370.4,	363.1,	-92.2,	44.8,
23	16.8,	363.5,	370.8,	-105.2,	59.8,	24	16.8,	345.5,	367.2,	-115.0,	72.9,
25	16.8,	317.0,	352.4,	-121.2,	83.8,	26	16.8,	278.9,	327.0,	-123.9,	92.2,
27	16.8,	232.3,	291.6,	-122.7,	97.8,	28	16.8,	276.5,	324.6,	-156.1,	99.8,
29	16.8,	315.2,	350.7,	-186.6,	99.3,	30	16.8,	344.4,	366.1,	-211.5,	95.8,
31	16.8,	363.1,	370.4,	-230.0,	89.4,	32	16.8,	370.8,	363.5,	-241.5,	80.2,
33	16.8,	367.2,	345.5,	-245.6,	68.6,	34	16.8,	352.4,	317.0,	-242.3,	55.0,
35	16.8,	327.0,	278.9,	-231.7,	39.6,	36	16.8,	291.6,	232.3,	-213.9,	23.1,

SOURCE ID: STCK140

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-237.1,	0.8,	2	16.8,	350.7,	315.2,	-255.1,	-16.5,
3	16.8,	366.1,	344.4,	-265.3,	-33.2,	4	16.8,	370.4,	363.1,	-267.4,	-49.0,
5	16.8,	363.5,	370.8,	-261.4,	-63.3,	6	16.8,	345.5,	367.2,	-247.5,	-75.7,
7	16.8,	317.0,	352.4,	-226.0,	-85.7,	8	16.8,	278.9,	327.0,	-197.7,	-93.2,
9	16.8,	232.3,	291.6,	-163.4,	-97.8,	10	16.8,	276.5,	324.6,	-163.1,	-98.9,
11	16.8,	315.2,	350.7,	-158.9,	-97.5,	12	16.8,	344.4,	366.1,	-149.8,	-93.0,
13	16.8,	363.1,	370.4,	-136.2,	-85.8,	14	16.8,	370.8,	363.5,	-118.4,	-76.0,
15	16.8,	367.2,	345.5,	-97.1,	-63.9,	16	16.8,	352.4,	317.0,	-72.8,	-49.8,
17	16.8,	327.0,	278.9,	-46.3,	-34.2,	18	16.8,	291.6,	232.3,	-18.4,	-17.6,
19	16.8,	324.6,	276.5,	-39.4,	-0.8,	20	16.8,	350.7,	315.2,	-60.2,	16.5,
21	16.8,	366.1,	344.4,	-79.1,	33.2,	22	16.8,	370.4,	363.1,	-95.7,	49.0,
23	16.8,	363.5,	370.8,	-109.4,	63.3,	24	16.8,	345.5,	367.2,	-119.7,	75.7,
25	16.8,	317.0,	352.4,	-126.4,	85.7,	26	16.8,	278.9,	327.0,	-129.3,	93.2,
27	16.8,	232.3,	291.6,	-128.2,	97.8,	28	16.8,	276.5,	324.6,	-161.5,	98.9,
29	16.8,	315.2,	350.7,	-191.8,	97.5,	30	16.8,	344.4,	366.1,	-216.3,	93.0,
31	16.8,	363.1,	370.4,	-234.2,	85.8,	32	16.8,	370.8,	363.5,	-245.0,	76.0,
33	16.8,	367.2,	345.5,	-248.4,	63.9,	34	16.8,	352.4,	317.0,	-244.2,	49.8,
35	16.8,	327.0,	278.9,	-232.6,	34.2,	36	16.8,	291.6,	232.3,	-213.9,	17.6,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK141

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-236.4,	-3.5,	2	16.8,	350.7,	315.2,	-253.6,	-20.6,
3	16.8,	366.1,	344.4,	-263.1,	-37.1,	4	16.8,	370.4,	363.1,	-264.6,	-52.4,
5	16.8,	363.5,	370.8,	-258.0,	-66.1,	6	16.8,	345.5,	367.2,	-243.6,	-77.9,
7	16.8,	317.0,	352.4,	-221.9,	-87.2,	8	16.8,	278.9,	327.0,	-193.3,	-93.9,
9	16.8,	232.3,	291.6,	-159.0,	-97.8,	10	16.8,	276.5,	324.6,	-158.8,	-98.1,
11	16.8,	315.2,	350.7,	-154.7,	-95.9,	12	16.8,	344.4,	366.1,	-146.0,	-90.8,
13	16.8,	363.1,	370.4,	-132.8,	-83.0,	14	16.8,	370.8,	363.5,	-115.6,	-72.6,
15	16.8,	367.2,	345.5,	-94.9,	-60.0,	16	16.8,	352.4,	317.0,	-71.3,	-45.6,
17	16.8,	327.0,	278.9,	-45.5,	-29.9,	18	16.8,	291.6,	232.3,	-18.4,	-13.2,
19	16.8,	324.6,	276.5,	-40.1,	3.5,	20	16.8,	350.7,	315.2,	-61.7,	20.6,
21	16.8,	366.1,	344.4,	-81.4,	37.1,	22	16.8,	370.4,	363.1,	-98.6,	52.4,
23	16.8,	363.5,	370.8,	-112.8,	66.1,	24	16.8,	345.5,	367.2,	-123.6,	77.9,
25	16.8,	317.0,	352.4,	-130.6,	87.2,	26	16.8,	278.9,	327.0,	-133.7,	93.9,
27	16.8,	232.3,	291.6,	-132.7,	97.8,	28	16.8,	276.5,	324.6,	-165.8,	98.1,
29	16.8,	315.2,	350.7,	-196.0,	95.9,	30	16.8,	344.4,	366.1,	-220.1,	90.8,
31	16.8,	363.1,	370.4,	-237.6,	83.0,	32	16.8,	370.8,	363.5,	-247.9,	72.6,
33	16.8,	367.2,	345.5,	-250.6,	60.0,	34	16.8,	352.4,	317.0,	-245.7,	45.6,
35	16.8,	327.0,	278.9,	-233.4,	29.9,	36	16.8,	291.6,	232.3,	-213.9,	13.2,

SOURCE ID: STCK142

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-235.7,	-7.2,	2	16.8,	350.7,	315.2,	-252.3,	-24.2,
3	16.8,	366.1,	344.4,	-261.2,	-40.3,	4	16.8,	370.4,	363.1,	-262.1,	-55.3,
5	16.8,	363.5,	370.8,	-255.1,	-68.5,	6	16.8,	345.5,	367.2,	-240.4,	-79.8,
7	16.8,	317.0,	352.4,	-218.3,	-88.5,	8	16.8,	278.9,	327.0,	-189.7,	-94.6,
9	16.8,	232.3,	291.6,	-155.2,	-97.8,	10	16.8,	276.5,	324.6,	-155.1,	-97.5,
11	16.8,	315.2,	350.7,	-151.2,	-94.6,	12	16.8,	344.4,	366.1,	-142.7,	-89.0,
13	16.8,	363.1,	370.4,	-129.9,	-80.6,	14	16.8,	370.8,	363.5,	-113.2,	-69.8,
15	16.8,	367.2,	345.5,	-93.0,	-56.8,	16	16.8,	352.4,	317.0,	-70.0,	-42.1,
17	16.8,	327.0,	278.9,	-44.8,	-26.2,	18	16.8,	291.6,	232.3,	-18.4,	-9.4,
19	16.8,	324.6,	276.5,	-40.8,	7.2,	20	16.8,	350.7,	315.2,	-63.0,	24.2,
21	16.8,	366.1,	344.4,	-83.2,	40.3,	22	16.8,	370.4,	363.1,	-101.0,	55.3,
23	16.8,	363.5,	370.8,	-115.6,	68.5,	24	16.8,	345.5,	367.2,	-126.8,	79.8,
25	16.8,	317.0,	352.4,	-134.1,	88.5,	26	16.8,	278.9,	327.0,	-137.3,	94.6,
27	16.8,	232.3,	291.6,	-136.4,	97.8,	28	16.8,	276.5,	324.6,	-169.5,	97.5,
29	16.8,	315.2,	350.7,	-199.5,	94.6,	30	16.8,	344.4,	366.1,	-223.4,	89.0,
31	16.8,	363.1,	370.4,	-240.5,	80.6,	32	16.8,	370.8,	363.5,	-250.3,	69.8,
33	16.8,	367.2,	345.5,	-252.5,	56.8,	34	16.8,	352.4,	317.0,	-247.0,	42.1,
35	16.8,	327.0,	278.9,	-234.0,	26.2,	36	16.8,	291.6,	232.3,	-213.9,	9.4,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK143

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-235.1,	-10.7,	2	16.8,	350.7,	315.2,	-251.1,	-27.5,
3	16.8,	366.1,	344.4,	-259.4,	-43.4,	4	16.8,	370.4,	363.1,	-259.9,	-58.0,
5	16.8,	363.5,	370.8,	-252.4,	-70.8,	6	16.8,	345.5,	367.2,	-237.3,	-81.5,
7	16.8,	317.0,	352.4,	-215.0,	-89.7,	8	16.8,	278.9,	327.0,	-186.2,	-95.2,
9	16.8,	232.3,	291.6,	-151.7,	-97.8,	10	16.8,	276.5,	324.6,	-151.6,	-96.8,
11	16.8,	315.2,	350.7,	-147.9,	-93.4,	12	16.8,	344.4,	366.1,	-139.7,	-87.2,
13	16.8,	363.1,	370.4,	-127.2,	-78.3,	14	16.8,	370.8,	363.5,	-110.9,	-67.0,
15	16.8,	367.2,	345.5,	-91.2,	-53.7,	16	16.8,	352.4,	317.0,	-68.8,	-38.8,
17	16.8,	327.0,	278.9,	-44.2,	-22.7,	18	16.8,	291.6,	232.3,	-18.4,	-5.9,
19	16.8,	324.6,	276.5,	-41.4,	10.7,	20	16.8,	350.7,	315.2,	-64.2,	27.5,
21	16.8,	366.1,	344.4,	-85.0,	43.4,	22	16.8,	370.4,	363.1,	-103.2,	58.0,
23	16.8,	363.5,	370.8,	-118.3,	70.8,	24	16.8,	345.5,	367.2,	-129.9,	81.5,
25	16.8,	317.0,	352.4,	-137.4,	89.7,	26	16.8,	278.9,	327.0,	-140.8,	95.2,
27	16.8,	232.3,	291.6,	-139.9,	97.8,	28	16.8,	276.5,	324.6,	-173.0,	96.8,
29	16.8,	315.2,	350.7,	-202.8,	93.4,	30	16.8,	344.4,	366.1,	-226.4,	87.2,
31	16.8,	363.1,	370.4,	-243.2,	78.3,	32	16.8,	370.8,	363.5,	-252.6,	67.0,
33	16.8,	367.2,	345.5,	-254.2,	53.7,	34	16.8,	352.4,	317.0,	-248.2,	38.8,
35	16.8,	327.0,	278.9,	-234.6,	22.7,	36	16.8,	291.6,	232.3,	-213.9,	5.9,

SOURCE ID: STCK144

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-234.3,	-15.1,	2	16.8,	350.7,	315.2,	-249.6,	-31.6,
3	16.8,	366.1,	344.4,	-257.2,	-47.2,	4	16.8,	370.4,	363.1,	-257.0,	-61.4,
5	16.8,	363.5,	370.8,	-249.1,	-73.7,	6	16.8,	345.5,	367.2,	-233.5,	-83.7,
7	16.8,	317.0,	352.4,	-210.9,	-91.2,	8	16.8,	278.9,	327.0,	-181.8,	-96.0,
9	16.8,	232.3,	291.6,	-147.2,	-97.8,	10	16.8,	276.5,	324.6,	-147.2,	-96.1,
11	16.8,	315.2,	350.7,	-143.7,	-91.9,	12	16.8,	344.4,	366.1,	-135.8,	-85.0,
13	16.8,	363.1,	370.4,	-123.8,	-75.5,	14	16.8,	370.8,	363.5,	-108.1,	-63.7,
15	16.8,	367.2,	345.5,	-89.0,	-49.9,	16	16.8,	352.4,	317.0,	-67.3,	-34.6,
17	16.8,	327.0,	278.9,	-43.5,	-18.3,	18	16.8,	291.6,	232.3,	-18.4,	-1.4,
19	16.8,	324.6,	276.5,	-42.2,	15.1,	20	16.8,	350.7,	315.2,	-65.7,	31.6,
21	16.8,	366.1,	344.4,	-87.2,	47.2,	22	16.8,	370.4,	363.1,	-106.1,	61.4,
23	16.8,	363.5,	370.8,	-121.7,	73.7,	24	16.8,	345.5,	367.2,	-133.7,	83.7,
25	16.8,	317.0,	352.4,	-141.6,	91.2,	26	16.8,	278.9,	327.0,	-145.2,	96.0,
27	16.8,	232.3,	291.6,	-144.4,	97.8,	28	16.8,	276.5,	324.6,	-177.4,	96.1,
29	16.8,	315.2,	350.7,	-207.0,	91.9,	30	16.8,	344.4,	366.1,	-230.3,	85.0,
31	16.8,	363.1,	370.4,	-246.6,	75.5,	32	16.8,	370.8,	363.5,	-255.4,	63.7,
33	16.8,	367.2,	345.5,	-256.5,	49.9,	34	16.8,	352.4,	317.0,	-249.7,	34.6,
35	16.8,	327.0,	278.9,	-235.4,	18.3,	36	16.8,	291.6,	232.3,	-213.9,	1.4,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK145

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-233.5,	-19.9,	2	16.8,	350.7,	315.2,	-247.9,	-36.2,
3	16.8,	366.1,	344.4,	-254.8,	-51.4,	4	16.8,	370.4,	363.1,	-253.9,	-65.1,
5	16.8,	363.5,	370.8,	-245.3,	-76.8,	6	16.8,	345.5,	367.2,	-229.3,	-86.1,
7	16.8,	317.0,	352.4,	-206.3,	-92.9,	8	16.8,	278.9,	327.0,	-177.0,	-96.8,
9	16.8,	232.3,	291.6,	-142.4,	-97.8,	10	16.8,	276.5,	324.6,	-142.4,	-95.2,
11	16.8,	315.2,	350.7,	-139.2,	-90.3,	12	16.8,	344.4,	366.1,	-131.6,	-82.6,
13	16.8,	363.1,	370.4,	-120.1,	-72.3,	14	16.8,	370.8,	363.5,	-105.0,	-59.9,
15	16.8,	367.2,	345.5,	-86.6,	-45.7,	16	16.8,	352.4,	317.0,	-65.6,	-30.1,
17	16.8,	327.0,	278.9,	-42.6,	-13.5,	18	16.8,	291.6,	232.3,	-18.4,	3.4,
19	16.8,	324.6,	276.5,	-43.0,	19.9,	20	16.8,	350.7,	315.2,	-67.3,	36.2,
21	16.8,	366.1,	344.4,	-89.6,	51.4,	22	16.8,	370.4,	363.1,	-109.2,	65.1,
23	16.8,	363.5,	370.8,	-125.5,	76.8,	24	16.8,	345.5,	367.2,	-137.9,	86.1,
25	16.8,	317.0,	352.4,	-146.2,	92.9,	26	16.8,	278.9,	327.0,	-150.0,	96.8,
27	16.8,	232.3,	291.6,	-149.2,	97.8,	28	16.8,	276.5,	324.6,	-182.1,	95.2,
29	16.8,	315.2,	350.7,	-211.5,	90.3,	30	16.8,	344.4,	366.1,	-234.5,	82.6,
31	16.8,	363.1,	370.4,	-250.3,	72.3,	32	16.8,	370.8,	363.5,	-258.5,	59.9,
33	16.8,	367.2,	345.5,	-258.9,	45.7,	34	16.8,	352.4,	317.0,	-251.4,	30.1,
35	16.8,	327.0,	278.9,	-236.3,	13.5,	36	16.8,	291.6,	232.3,	-213.9,	-3.4,

SOURCE ID: STCK146

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-232.2,	-27.2,	2	16.8,	350.7,	315.2,	-245.3,	-43.2,
3	16.8,	366.1,	344.4,	-251.0,	-57.9,	4	16.8,	370.4,	363.1,	-249.1,	-70.8,
5	16.8,	363.5,	370.8,	-239.6,	-81.6,	6	16.8,	345.5,	367.2,	-222.8,	-89.9,
7	16.8,	317.0,	352.4,	-199.2,	-95.5,	8	16.8,	278.9,	327.0,	-169.7,	-98.1,
9	16.8,	232.3,	291.6,	-134.9,	-97.8,	10	16.8,	276.5,	324.6,	-135.1,	-93.9,
11	16.8,	315.2,	350.7,	-132.1,	-87.7,	12	16.8,	344.4,	366.1,	-125.1,	-78.8,
13	16.8,	363.1,	370.4,	-114.4,	-67.5,	14	16.8,	370.8,	363.5,	-100.1,	-54.2,
15	16.8,	367.2,	345.5,	-82.8,	-39.2,	16	16.8,	352.4,	317.0,	-63.0,	-23.0,
17	16.8,	327.0,	278.9,	-41.3,	-6.1,	18	16.8,	291.6,	232.3,	-18.4,	10.9,
19	16.8,	324.6,	276.5,	-44.3,	27.2,	20	16.8,	350.7,	315.2,	-69.9,	43.2,
21	16.8,	366.1,	344.4,	-93.4,	57.9,	22	16.8,	370.4,	363.1,	-114.0,	70.8,
23	16.8,	363.5,	370.8,	-131.2,	81.6,	24	16.8,	345.5,	367.2,	-144.4,	89.9,
25	16.8,	317.0,	352.4,	-153.2,	95.5,	26	16.8,	278.9,	327.0,	-157.3,	98.1,
27	16.8,	232.3,	291.6,	-156.7,	97.8,	28	16.8,	276.5,	324.6,	-189.5,	93.9,
29	16.8,	315.2,	350.7,	-218.6,	87.7,	30	16.8,	344.4,	366.1,	-241.0,	78.8,
31	16.8,	363.1,	370.4,	-256.1,	67.5,	32	16.8,	370.8,	363.5,	-263.4,	54.2,
33	16.8,	367.2,	345.5,	-262.6,	39.2,	34	16.8,	352.4,	317.0,	-254.0,	23.0,
35	16.8,	327.0,	278.9,	-237.6,	6.1,	36	16.8,	291.6,	232.3,	-213.9,	-10.9,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK147

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-231.4,	-31.8,	2	16.8,	350.7,	315.2,	-243.7,	-47.6,
3	16.8,	366.1,	344.4,	-248.7,	-61.9,	4	16.8,	370.4,	363.1,	-246.1,	-74.4,
5	16.8,	363.5,	370.8,	-236.0,	-84.6,	6	16.8,	345.5,	367.2,	-218.8,	-92.2,
7	16.8,	317.0,	352.4,	-194.9,	-97.0,	8	16.8,	278.9,	327.0,	-165.1,	-98.9,
9	16.8,	232.3,	291.6,	-130.2,	-97.8,	10	16.8,	276.5,	324.6,	-130.5,	-93.1,
11	16.8,	315.2,	350.7,	-127.7,	-86.1,	12	16.8,	344.4,	366.1,	-121.1,	-76.5,
13	16.8,	363.1,	370.4,	-110.8,	-64.5,	14	16.8,	370.8,	363.5,	-97.1,	-50.6,
15	16.8,	367.2,	345.5,	-80.5,	-35.2,	16	16.8,	352.4,	317.0,	-61.4,	-18.7,
17	16.8,	327.0,	278.9,	-40.5,	-1.6,	18	16.8,	291.6,	232.3,	-18.4,	15.6,
19	16.8,	324.6,	276.5,	-45.1,	31.8,	20	16.8,	350.7,	315.2,	-71.5,	47.6,
21	16.8,	366.1,	344.4,	-95.7,	61.9,	22	16.8,	370.4,	363.1,	-117.0,	74.4,
23	16.8,	363.5,	370.8,	-134.8,	84.6,	24	16.8,	345.5,	367.2,	-148.4,	92.2,
25	16.8,	317.0,	352.4,	-157.6,	97.0,	26	16.8,	278.9,	327.0,	-161.9,	98.9,
27	16.8,	232.3,	291.6,	-161.4,	97.8,	28	16.8,	276.5,	324.6,	-194.1,	93.1,
29	16.8,	315.2,	350.7,	-222.9,	86.1,	30	16.8,	344.4,	366.1,	-245.0,	76.5,
31	16.8,	363.1,	370.4,	-259.6,	64.5,	32	16.8,	370.8,	363.5,	-266.3,	50.6,
33	16.8,	367.2,	345.5,	-265.0,	35.2,	34	16.8,	352.4,	317.0,	-255.6,	18.7,
35	16.8,	327.0,	278.9,	-238.4,	1.6,	36	16.8,	291.6,	232.3,	-213.9,	-15.6,

SOURCE ID: STCK148

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-230.6,	-36.4,	2	16.8,	350.7,	315.2,	-242.2,	-52.0,
3	16.8,	366.1,	344.4,	-246.4,	-66.0,	4	16.8,	370.4,	363.1,	-243.1,	-78.0,
5	16.8,	363.5,	370.8,	-232.5,	-87.6,	6	16.8,	345.5,	367.2,	-214.8,	-94.5,
7	16.8,	317.0,	352.4,	-190.5,	-98.6,	8	16.8,	278.9,	327.0,	-160.5,	-99.7,
9	16.8,	232.3,	291.6,	-125.6,	-97.8,	10	16.8,	276.5,	324.6,	-125.9,	-92.3,
11	16.8,	315.2,	350.7,	-123.4,	-84.5,	12	16.8,	344.4,	366.1,	-117.1,	-74.2,
13	16.8,	363.1,	370.4,	-107.3,	-61.6,	14	16.8,	370.8,	363.5,	-94.2,	-47.1,
15	16.8,	367.2,	345.5,	-78.2,	-31.2,	16	16.8,	352.4,	317.0,	-59.9,	-14.3,
17	16.8,	327.0,	278.9,	-39.7,	3.0,	18	16.8,	291.6,	232.3,	-18.4,	20.2,
19	16.8,	324.6,	276.5,	-45.9,	36.4,	20	16.8,	350.7,	315.2,	-73.1,	52.0,
21	16.8,	366.1,	344.4,	-98.0,	66.0,	22	16.8,	370.4,	363.1,	-120.0,	78.0,
23	16.8,	363.5,	370.8,	-138.3,	87.6,	24	16.8,	345.5,	367.2,	-152.4,	94.5,
25	16.8,	317.0,	352.4,	-161.9,	98.6,	26	16.8,	278.9,	327.0,	-166.5,	99.7,
27	16.8,	232.3,	291.6,	-166.0,	97.8,	28	16.8,	276.5,	324.6,	-198.7,	92.3,
29	16.8,	315.2,	350.7,	-227.3,	84.5,	30	16.8,	344.4,	366.1,	-249.0,	74.2,
31	16.8,	363.1,	370.4,	-263.2,	61.6,	32	16.8,	370.8,	363.5,	-269.3,	47.1,
33	16.8,	367.2,	345.5,	-267.3,	31.2,	34	16.8,	352.4,	317.0,	-257.1,	14.3,
35	16.8,	327.0,	278.9,	-239.2,	-3.0,	36	16.8,	291.6,	232.3,	-213.9,	-20.2,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK149

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-229.8,	-40.5,	2	16.8,	350.7,	315.2,	-240.7,	-55.9,
3	16.8,	366.1,	344.4,	-244.3,	-69.6,	4	16.8,	370.4,	363.1,	-240.4,	-81.2,
5	16.8,	363.5,	370.8,	-229.3,	-90.3,	6	16.8,	345.5,	367.2,	-211.1,	-96.6,
7	16.8,	317.0,	352.4,	-186.6,	-100.1,	8	16.8,	278.9,	327.0,	-156.4,	-100.5,
9	16.8,	232.3,	291.6,	-121.4,	-97.8,	10	16.8,	276.5,	324.6,	-121.8,	-91.6,
11	16.8,	315.2,	350.7,	-119.4,	-83.1,	12	16.8,	344.4,	366.1,	-113.5,	-72.1,
13	16.8,	363.1,	370.4,	-104.0,	-58.9,	14	16.8,	370.8,	363.5,	-91.5,	-43.9,
15	16.8,	367.2,	345.5,	-76.1,	-27.5,	16	16.8,	352.4,	317.0,	-58.4,	-10.4,
17	16.8,	327.0,	278.9,	-39.0,	7.1,	18	16.8,	291.6,	232.3,	-18.4,	24.4,
19	16.8,	324.6,	276.5,	-46.6,	40.5,	20	16.8,	350.7,	315.2,	-74.5,	55.9,
21	16.8,	366.1,	344.4,	-100.1,	69.6,	22	16.8,	370.4,	363.1,	-122.7,	81.2,
23	16.8,	363.5,	370.8,	-141.5,	90.3,	24	16.8,	345.5,	367.2,	-156.1,	96.6,
25	16.8,	317.0,	352.4,	-165.9,	100.1,	26	16.8,	278.9,	327.0,	-170.6,	100.5,
27	16.8,	232.3,	291.6,	-170.2,	97.8,	28	16.8,	276.5,	324.6,	-202.8,	91.6,
29	16.8,	315.2,	350.7,	-231.2,	83.1,	30	16.8,	344.4,	366.1,	-252.6,	72.1,
31	16.8,	363.1,	370.4,	-266.4,	58.9,	32	16.8,	370.8,	363.5,	-272.0,	43.9,
33	16.8,	367.2,	345.5,	-269.4,	27.5,	34	16.8,	352.4,	317.0,	-258.6,	10.4,
35	16.8,	327.0,	278.9,	-239.9,	-7.1,	36	16.8,	291.6,	232.3,	-213.9,	-24.4,

SOURCE ID: STCK150

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-229.1,	-44.6,	2	16.8,	350.7,	315.2,	-239.3,	-59.8,
3	16.8,	366.1,	344.4,	-242.2,	-73.2,	4	16.8,	370.4,	363.1,	-237.7,	-84.4,
5	16.8,	363.5,	370.8,	-226.1,	-93.0,	6	16.8,	345.5,	367.2,	-207.5,	-98.7,
7	16.8,	317.0,	352.4,	-182.7,	-101.5,	8	16.8,	278.9,	327.0,	-152.2,	-101.2,
9	16.8,	232.3,	291.6,	-117.2,	-97.8,	10	16.8,	276.5,	324.6,	-117.6,	-90.9,
11	16.8,	315.2,	350.7,	-115.5,	-81.7,	12	16.8,	344.4,	366.1,	-109.8,	-70.0,
13	16.8,	363.1,	370.4,	-100.8,	-56.2,	14	16.8,	370.8,	363.5,	-88.8,	-40.6,
15	16.8,	367.2,	345.5,	-74.0,	-23.9,	16	16.8,	352.4,	317.0,	-57.0,	-6.4,
17	16.8,	327.0,	278.9,	-38.2,	11.2,	18	16.8,	291.6,	232.3,	-18.4,	28.6,
19	16.8,	324.6,	276.5,	-47.4,	44.6,	20	16.8,	350.7,	315.2,	-76.0,	59.8,
21	16.8,	366.1,	344.4,	-102.2,	73.2,	22	16.8,	370.4,	363.1,	-125.4,	84.4,
23	16.8,	363.5,	370.8,	-144.7,	93.0,	24	16.8,	345.5,	367.2,	-159.7,	98.7,
25	16.8,	317.0,	352.4,	-169.8,	101.5,	26	16.8,	278.9,	327.0,	-174.8,	101.2,
27	16.8,	232.3,	291.6,	-174.4,	97.8,	28	16.8,	276.5,	324.6,	-206.9,	90.9,
29	16.8,	315.2,	350.7,	-235.2,	81.7,	30	16.8,	344.4,	366.1,	-256.3,	70.0,
31	16.8,	363.1,	370.4,	-269.6,	56.2,	32	16.8,	370.8,	363.5,	-274.7,	40.6,
33	16.8,	367.2,	345.5,	-271.5,	23.9,	34	16.8,	352.4,	317.0,	-260.0,	6.4,
35	16.8,	327.0,	278.9,	-240.6,	-11.2,	36	16.8,	291.6,	232.3,	-213.9,	-28.6,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK151

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-228.3,	-49.0,	2	16.8,	350.7,	315.2,	-237.8,	-64.0,
3	16.8,	366.1,	344.4,	-240.0,	-77.0,	4	16.8,	370.4,	363.1,	-234.9,	-87.8,
5	16.8,	363.5,	370.8,	-222.7,	-95.8,	6	16.8,	345.5,	367.2,	-203.7,	-100.9,
7	16.8,	317.0,	352.4,	-178.5,	-103.0,	8	16.8,	278.9,	327.0,	-147.9,	-102.0,
9	16.8,	232.3,	291.6,	-112.8,	-97.8,	10	16.8,	276.5,	324.6,	-113.3,	-90.1,
11	16.8,	315.2,	350.7,	-111.3,	-80.1,	12	16.8,	344.4,	366.1,	-106.0,	-67.8,
13	16.8,	363.1,	370.4,	-97.5,	-53.3,	14	16.8,	370.8,	363.5,	-85.9,	-37.3,
15	16.8,	367.2,	345.5,	-71.8,	-20.1,	16	16.8,	352.4,	317.0,	-55.5,	-2.3,
17	16.8,	327.0,	278.9,	-37.5,	15.6,	18	16.8,	291.6,	232.3,	-18.4,	33.0,
19	16.8,	324.6,	276.5,	-48.1,	49.0,	20	16.8,	350.7,	315.2,	-77.5,	64.0,
21	16.8,	366.1,	344.4,	-104.4,	77.0,	22	16.8,	370.4,	363.1,	-128.2,	87.8,
23	16.8,	363.5,	370.8,	-148.1,	95.8,	24	16.8,	345.5,	367.2,	-163.5,	100.9,
25	16.8,	317.0,	352.4,	-174.0,	103.0,	26	16.8,	278.9,	327.0,	-179.1,	102.0,
27	16.8,	232.3,	291.6,	-178.8,	97.8,	28	16.8,	276.5,	324.6,	-211.3,	90.1,
29	16.8,	315.2,	350.7,	-239.3,	80.1,	30	16.8,	344.4,	366.1,	-260.1,	67.8,
31	16.8,	363.1,	370.4,	-273.0,	53.3,	32	16.8,	370.8,	363.5,	-277.5,	37.3,
33	16.8,	367.2,	345.5,	-273.7,	20.1,	34	16.8,	352.4,	317.0,	-261.5,	2.3,
35	16.8,	327.0,	278.9,	-241.4,	-15.6,	36	16.8,	291.6,	232.3,	-213.9,	-33.0,

SOURCE ID: STCK152

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-227.6,	-53.3,	2	16.8,	350.7,	315.2,	-236.3,	-68.1,
3	16.8,	366.1,	344.4,	-237.8,	-80.9,	4	16.8,	370.4,	363.1,	-232.1,	-91.1,
5	16.8,	363.5,	370.8,	-219.3,	-98.6,	6	16.8,	345.5,	367.2,	-199.9,	-103.1,
7	16.8,	317.0,	352.4,	-174.4,	-104.5,	8	16.8,	278.9,	327.0,	-143.6,	-102.7,
9	16.8,	232.3,	291.6,	-108.4,	-97.8,	10	16.8,	276.5,	324.6,	-109.0,	-89.3,
11	16.8,	315.2,	350.7,	-107.2,	-78.6,	12	16.8,	344.4,	366.1,	-102.2,	-65.6,
13	16.8,	363.1,	370.4,	-94.1,	-50.5,	14	16.8,	370.8,	363.5,	-83.1,	-33.9,
15	16.8,	367.2,	345.5,	-69.6,	-16.2,	16	16.8,	352.4,	317.0,	-54.0,	1.9,
17	16.8,	327.0,	278.9,	-36.7,	19.9,	18	16.8,	291.6,	232.3,	-18.4,	37.4,
19	16.8,	324.6,	276.5,	-48.9,	53.3,	20	16.8,	350.7,	315.2,	-79.0,	68.1,
21	16.8,	366.1,	344.4,	-106.6,	80.9,	22	16.8,	370.4,	363.1,	-131.1,	91.1,
23	16.8,	363.5,	370.8,	-151.5,	98.6,	24	16.8,	345.5,	367.2,	-167.3,	103.1,
25	16.8,	317.0,	352.4,	-178.1,	104.5,	26	16.8,	278.9,	327.0,	-183.4,	102.7,
27	16.8,	232.3,	291.6,	-183.2,	97.8,	28	16.8,	276.5,	324.6,	-215.6,	89.3,
29	16.8,	315.2,	350.7,	-243.5,	78.6,	30	16.8,	344.4,	366.1,	-263.9,	65.6,
31	16.8,	363.1,	370.4,	-276.4,	50.5,	32	16.8,	370.8,	363.5,	-280.4,	33.9,
33	16.8,	367.2,	345.5,	-275.9,	16.2,	34	16.8,	352.4,	317.0,	-263.0,	-1.9,
35	16.8,	327.0,	278.9,	-242.2,	-19.9,	36	16.8,	291.6,	232.3,	-213.9,	-37.4,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK153

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-226.2,	-61.4,	2	16.8,	350.7,	315.2,	-233.5,	-75.8,
3	16.8,	366.1,	344.4,	-233.7,	-87.9,	4	16.8,	370.4,	363.1,	-226.8,	-97.4,
5	16.8,	363.5,	370.8,	-213.0,	-103.9,	6	16.8,	345.5,	367.2,	-192.8,	-107.2,
7	16.8,	317.0,	352.4,	-166.7,	-107.3,	8	16.8,	278.9,	327.0,	-135.5,	-104.1,
9	16.8,	232.3,	291.6,	-100.2,	-97.8,	10	16.8,	276.5,	324.6,	-100.9,	-87.9,
11	16.8,	315.2,	350.7,	-99.5,	-75.8,	12	16.8,	344.4,	366.1,	-95.1,	-61.5,
13	16.8,	363.1,	370.4,	-87.8,	-45.2,	14	16.8,	370.8,	363.5,	-77.8,	-27.6,
15	16.8,	367.2,	345.5,	-65.5,	-9.2,	16	16.8,	352.4,	317.0,	-51.2,	9.6,
17	16.8,	327.0,	278.9,	-35.3,	28.0,	18	16.8,	291.6,	232.3,	-18.4,	45.6,
19	16.8,	324.6,	276.5,	-50.3,	61.4,	20	16.8,	350.7,	315.2,	-81.8,	75.8,
21	16.8,	366.1,	344.4,	-110.7,	87.9,	22	16.8,	370.4,	363.1,	-136.3,	97.4,
23	16.8,	363.5,	370.8,	-157.8,	103.9,	24	16.8,	345.5,	367.2,	-174.4,	107.2,
25	16.8,	317.0,	352.4,	-185.8,	107.3,	26	16.8,	278.9,	327.0,	-191.5,	104.1,
27	16.8,	232.3,	291.6,	-191.4,	97.8,	28	16.8,	276.5,	324.6,	-223.7,	87.9,
29	16.8,	315.2,	350.7,	-251.2,	75.8,	30	16.8,	344.4,	366.1,	-271.0,	61.5,
31	16.8,	363.1,	370.4,	-282.6,	45.2,	32	16.8,	370.8,	363.5,	-285.6,	27.6,
33	16.8,	367.2,	345.5,	-280.0,	9.2,	34	16.8,	352.4,	317.0,	-265.8,	-9.6,
35	16.8,	327.0,	278.9,	-243.6,	-28.0,	36	16.8,	291.6,	232.3,	-213.9,	-45.6,

SOURCE ID: STCK154

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-225.5,	-65.1,	2	16.8,	350.7,	315.2,	-232.2,	-79.3,
3	16.8,	366.1,	344.4,	-231.8,	-91.2,	4	16.8,	370.4,	363.1,	-224.4,	-100.3,
5	16.8,	363.5,	370.8,	-210.2,	-106.3,	6	16.8,	345.5,	367.2,	-189.5,	-109.1,
7	16.8,	317.0,	352.4,	-163.2,	-108.6,	8	16.8,	278.9,	327.0,	-131.8,	-104.8,
9	16.8,	232.3,	291.6,	-96.5,	-97.8,	10	16.8,	276.5,	324.6,	-97.2,	-87.3,
11	16.8,	315.2,	350.7,	-96.0,	-74.6,	12	16.8,	344.4,	366.1,	-91.9,	-59.6,
13	16.8,	363.1,	370.4,	-84.9,	-42.8,	14	16.8,	370.8,	363.5,	-75.4,	-24.8,
15	16.8,	367.2,	345.5,	-63.6,	-5.9,	16	16.8,	352.4,	317.0,	-49.9,	13.1,
17	16.8,	327.0,	278.9,	-34.6,	31.7,	18	16.8,	291.6,	232.3,	-18.4,	49.3,
19	16.8,	324.6,	276.5,	-51.0,	65.1,	20	16.8,	350.7,	315.2,	-83.0,	79.3,
21	16.8,	366.1,	344.4,	-112.6,	91.2,	22	16.8,	370.4,	363.1,	-138.7,	100.3,
23	16.8,	363.5,	370.8,	-160.6,	106.3,	24	16.8,	345.5,	367.2,	-177.7,	109.1,
25	16.8,	317.0,	352.4,	-189.3,	108.6,	26	16.8,	278.9,	327.0,	-195.2,	104.8,
27	16.8,	232.3,	291.6,	-195.1,	97.8,	28	16.8,	276.5,	324.6,	-227.4,	87.3,
29	16.8,	315.2,	350.7,	-254.7,	74.6,	30	16.8,	344.4,	366.1,	-274.2,	59.6,
31	16.8,	363.1,	370.4,	-285.5,	42.8,	32	16.8,	370.8,	363.5,	-288.0,	24.8,
33	16.8,	367.2,	345.5,	-281.9,	5.9,	34	16.8,	352.4,	317.0,	-267.1,	-13.1,
35	16.8,	327.0,	278.9,	-244.2,	-31.7,	36	16.8,	291.6,	232.3,	-213.9,	-49.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK155

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-224.7,	-69.9,	2	16.8,	350.7,	315.2,	-230.5,	-83.9,
3	16.8,	366.1,	344.4,	-229.4,	-95.4,	4	16.8,	370.4,	363.1,	-221.3,	-104.0,
5	16.8,	363.5,	370.8,	-206.4,	-109.4,	6	16.8,	345.5,	367.2,	-185.3,	-111.5,
7	16.8,	317.0,	352.4,	-158.6,	-110.3,	8	16.8,	278.9,	327.0,	-127.0,	-105.6,
9	16.8,	232.3,	291.6,	-91.6,	-97.8,	10	16.8,	276.5,	324.6,	-92.4,	-86.4,
11	16.8,	315.2,	350.7,	-91.4,	-72.9,	12	16.8,	344.4,	366.1,	-87.6,	-57.2,
13	16.8,	363.1,	370.4,	-81.2,	-39.7,	14	16.8,	370.8,	363.5,	-72.3,	-21.0,
15	16.8,	367.2,	345.5,	-61.2,	-1.7,	16	16.8,	352.4,	317.0,	-48.2,	17.6,
17	16.8,	327.0,	278.9,	-33.8,	36.5,	18	16.8,	291.6,	232.3,	-18.4,	54.2,
19	16.8,	324.6,	276.5,	-51.8,	69.9,	20	16.8,	350.7,	315.2,	-84.7,	83.9,
21	16.8,	366.1,	344.4,	-115.0,	95.4,	22	16.8,	370.4,	363.1,	-141.9,	104.0,
23	16.8,	363.5,	370.8,	-164.4,	109.4,	24	16.8,	345.5,	367.2,	-181.9,	111.5,
25	16.8,	317.0,	352.4,	-193.9,	110.3,	26	16.8,	278.9,	327.0,	-200.0,	105.6,
27	16.8,	232.3,	291.6,	-200.0,	97.8,	28	16.8,	276.5,	324.6,	-232.2,	86.4,
29	16.8,	315.2,	350.7,	-259.2,	72.9,	30	16.8,	344.4,	366.1,	-278.4,	57.2,
31	16.8,	363.1,	370.4,	-289.2,	39.7,	32	16.8,	370.8,	363.5,	-291.2,	21.0,
33	16.8,	367.2,	345.5,	-284.3,	1.7,	34	16.8,	352.4,	317.0,	-268.8,	-17.6,
35	16.8,	327.0,	278.9,	-245.1,	-36.5,	36	16.8,	291.6,	232.3,	-213.9,	-54.2,

SOURCE ID: STCK156

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-223.9,	-74.2,	2	16.8,	350.7,	315.2,	-229.0,	-88.1,
3	16.8,	366.1,	344.4,	-227.2,	-99.2,	4	16.8,	370.4,	363.1,	-218.4,	-107.4,
5	16.8,	363.5,	370.8,	-203.0,	-112.3,	6	16.8,	345.5,	367.2,	-181.5,	-113.8,
7	16.8,	317.0,	352.4,	-154.4,	-111.8,	8	16.8,	278.9,	327.0,	-122.7,	-106.4,
9	16.8,	232.3,	291.6,	-87.2,	-97.8,	10	16.8,	276.5,	324.6,	-88.1,	-85.6,
11	16.8,	315.2,	350.7,	-87.3,	-71.4,	12	16.8,	344.4,	366.1,	-83.8,	-55.0,
13	16.8,	363.1,	370.4,	-77.8,	-36.9,	14	16.8,	370.8,	363.5,	-69.5,	-17.7,
15	16.8,	367.2,	345.5,	-59.0,	2.1,	16	16.8,	352.4,	317.0,	-46.7,	21.8,
17	16.8,	327.0,	278.9,	-33.0,	40.8,	18	16.8,	291.6,	232.3,	-18.4,	58.6,
19	16.8,	324.6,	276.5,	-52.6,	74.2,	20	16.8,	350.7,	315.2,	-86.2,	88.1,
21	16.8,	366.1,	344.4,	-117.2,	99.2,	22	16.8,	370.4,	363.1,	-144.7,	107.4,
23	16.8,	363.5,	370.8,	-167.8,	112.3,	24	16.8,	345.5,	367.2,	-185.7,	113.8,
25	16.8,	317.0,	352.4,	-198.0,	111.8,	26	16.8,	278.9,	327.0,	-204.3,	106.4,
27	16.8,	232.3,	291.6,	-204.4,	97.8,	28	16.8,	276.5,	324.6,	-236.5,	85.6,
29	16.8,	315.2,	350.7,	-263.4,	71.4,	30	16.8,	344.4,	366.1,	-282.3,	55.0,
31	16.8,	363.1,	370.4,	-292.6,	36.9,	32	16.8,	370.8,	363.5,	-294.0,	17.7,
33	16.8,	367.2,	345.5,	-286.5,	-2.1,	34	16.8,	352.4,	317.0,	-270.3,	-21.8,
35	16.8,	327.0,	278.9,	-245.8,	-40.8,	36	16.8,	291.6,	232.3,	-213.9,	-58.6,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK157

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-223.2,	-78.3,	2	16.8,	350.7,	315.2,	-227.6,	-92.0,
3	16.8,	366.1,	344.4,	-225.1,	-102.9,	4	16.8,	370.4,	363.1,	-215.7,	-110.6,
5	16.8,	363.5,	370.8,	-199.8,	-115.0,	6	16.8,	345.5,	367.2,	-177.9,	-115.8,
7	16.8,	317.0,	352.4,	-150.5,	-113.2,	8	16.8,	278.9,	327.0,	-118.5,	-107.1,
9	16.8,	232.3,	291.6,	-83.0,	-97.8,	10	16.8,	276.5,	324.6,	-84.0,	-84.9,
11	16.8,	315.2,	350.7,	-83.3,	-70.0,	12	16.8,	344.4,	366.1,	-80.2,	-52.9,
13	16.8,	363.1,	370.4,	-74.6,	-34.2,	14	16.8,	370.8,	363.5,	-66.8,	-14.4,
15	16.8,	367.2,	345.5,	-56.9,	5.7,	16	16.8,	352.4,	317.0,	-45.3,	25.7,
17	16.8,	327.0,	278.9,	-32.3,	44.9,	18	16.8,	291.6,	232.3,	-18.4,	62.8,
19	16.8,	324.6,	276.5,	-53.3,	78.3,	20	16.8,	350.7,	315.2,	-87.7,	92.0,
21	16.8,	366.1,	344.4,	-119.3,	102.9,	22	16.8,	370.4,	363.1,	-147.4,	110.6,
23	16.8,	363.5,	370.8,	-171.0,	115.0,	24	16.8,	345.5,	367.2,	-189.3,	115.8,
25	16.8,	317.0,	352.4,	-202.0,	113.2,	26	16.8,	278.9,	327.0,	-208.5,	107.1,
27	16.8,	232.3,	291.6,	-208.6,	97.8,	28	16.8,	276.5,	324.6,	-240.6,	84.9,
29	16.8,	315.2,	350.7,	-267.3,	70.0,	30	16.8,	344.4,	366.1,	-285.9,	52.9,
31	16.8,	363.1,	370.4,	-295.8,	34.2,	32	16.8,	370.8,	363.5,	-296.7,	14.4,
33	16.8,	367.2,	345.5,	-288.6,	-5.7,	34	16.8,	352.4,	317.0,	-271.7,	-25.7,
35	16.8,	327.0,	278.9,	-246.6,	-44.9,	36	16.8,	291.6,	232.3,	-213.9,	-62.8,

SOURCE ID: STCK158

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-222.4,	-82.9,	2	16.8,	350.7,	315.2,	-226.0,	-96.4,
3	16.8,	366.1,	344.4,	-222.8,	-106.9,	4	16.8,	370.4,	363.1,	-212.8,	-114.1,
5	16.8,	363.5,	370.8,	-196.3,	-118.0,	6	16.8,	345.5,	367.2,	-173.9,	-118.2,
7	16.8,	317.0,	352.4,	-146.1,	-114.8,	8	16.8,	278.9,	327.0,	-114.0,	-107.9,
9	16.8,	232.3,	291.6,	-78.4,	-97.8,	10	16.8,	276.5,	324.6,	-79.4,	-84.1,
11	16.8,	315.2,	350.7,	-79.0,	-68.4,	12	16.8,	344.4,	366.1,	-76.2,	-50.5,
13	16.8,	363.1,	370.4,	-71.1,	-31.2,	14	16.8,	370.8,	363.5,	-63.8,	-10.9,
15	16.8,	367.2,	345.5,	-54.6,	9.8,	16	16.8,	352.4,	317.0,	-43.7,	30.1,
17	16.8,	327.0,	278.9,	-31.5,	49.5,	18	16.8,	291.6,	232.3,	-18.4,	67.4,
19	16.8,	324.6,	276.5,	-54.1,	82.9,	20	16.8,	350.7,	315.2,	-89.2,	96.4,
21	16.8,	366.1,	344.4,	-121.6,	106.9,	22	16.8,	370.4,	363.1,	-150.4,	114.1,
23	16.8,	363.5,	370.8,	-174.5,	118.0,	24	16.8,	345.5,	367.2,	-193.4,	118.2,
25	16.8,	317.0,	352.4,	-206.3,	114.8,	26	16.8,	278.9,	327.0,	-213.0,	107.9,
27	16.8,	232.3,	291.6,	-213.2,	97.8,	28	16.8,	276.5,	324.6,	-245.2,	84.1,
29	16.8,	315.2,	350.7,	-271.7,	68.4,	30	16.8,	344.4,	366.1,	-289.9,	50.5,
31	16.8,	363.1,	370.4,	-299.4,	31.2,	32	16.8,	370.8,	363.5,	-299.7,	10.9,
33	16.8,	367.2,	345.5,	-290.9,	-9.8,	34	16.8,	352.4,	317.0,	-273.3,	-30.1,
35	16.8,	327.0,	278.9,	-247.4,	-49.5,	36	16.8,	291.6,	232.3,	-213.9,	-67.4,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK159

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-221.7,	-86.8,	2	16.8,	350.7,	315.2,	-224.6,	-100.1,
3	16.8,	366.1,	344.4,	-220.8,	-110.3,	4	16.8,	370.4,	363.1,	-210.2,	-117.2,
5	16.8,	363.5,	370.8,	-193.2,	-120.5,	6	16.8,	345.5,	367.2,	-170.4,	-120.2,
7	16.8,	317.0,	352.4,	-142.4,	-116.2,	8	16.8,	278.9,	327.0,	-110.1,	-108.6,
9	16.8,	232.3,	291.6,	-74.4,	-97.8,	10	16.8,	276.5,	324.6,	-75.5,	-83.4,
11	16.8,	315.2,	350.7,	-75.2,	-67.0,	12	16.8,	344.4,	366.1,	-72.7,	-48.6,
13	16.8,	363.1,	370.4,	-68.0,	-28.6,	14	16.8,	370.8,	363.5,	-61.2,	-7.8,
15	16.8,	367.2,	345.5,	-52.6,	13.2,	16	16.8,	352.4,	317.0,	-42.3,	33.8,
17	16.8,	327.0,	278.9,	-30.8,	53.4,	18	16.8,	291.6,	232.3,	-18.4,	71.4,
19	16.8,	324.6,	276.5,	-54.8,	86.8,	20	16.8,	350.7,	315.2,	-90.6,	100.1,
21	16.8,	366.1,	344.4,	-123.6,	110.3,	22	16.8,	370.4,	363.1,	-152.9,	117.2,
23	16.8,	363.5,	370.8,	-177.6,	120.5,	24	16.8,	345.5,	367.2,	-196.8,	120.2,
25	16.8,	317.0,	352.4,	-210.1,	116.2,	26	16.8,	278.9,	327.0,	-216.9,	108.6,
27	16.8,	232.3,	291.6,	-217.2,	97.8,	28	16.8,	276.5,	324.6,	-249.1,	83.4,
29	16.8,	315.2,	350.7,	-275.4,	67.0,	30	16.8,	344.4,	366.1,	-293.4,	48.6,
31	16.8,	363.1,	370.4,	-302.4,	28.6,	32	16.8,	370.8,	363.5,	-302.2,	7.8,
33	16.8,	367.2,	345.5,	-292.9,	-13.2,	34	16.8,	352.4,	317.0,	-274.7,	-33.8,
35	16.8,	327.0,	278.9,	-248.1,	-53.4,	36	16.8,	291.6,	232.3,	-213.9,	-71.4,

SOURCE ID: STCK160

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-220.2,	-95.1,	2	16.8,	350.7,	315.2,	-221.8,	-108.0,
3	16.8,	366.1,	344.4,	-216.6,	-117.6,	4	16.8,	370.4,	363.1,	-204.8,	-123.6,
5	16.8,	363.5,	370.8,	-186.8,	-125.9,	6	16.8,	345.5,	367.2,	-163.1,	-124.3,
7	16.8,	317.0,	352.4,	-134.5,	-119.0,	8	16.8,	278.9,	327.0,	-101.8,	-110.1,
9	16.8,	232.3,	291.6,	-66.0,	-97.8,	10	16.8,	276.5,	324.6,	-67.2,	-82.0,
11	16.8,	315.2,	350.7,	-67.4,	-64.1,	12	16.8,	344.4,	366.1,	-65.5,	-44.4,
13	16.8,	363.1,	370.4,	-61.6,	-23.2,	14	16.8,	370.8,	363.5,	-55.8,	-1.4,
15	16.8,	367.2,	345.5,	-48.4,	20.5,	16	16.8,	352.4,	317.0,	-39.5,	41.7,
17	16.8,	327.0,	278.9,	-29.4,	61.7,	18	16.8,	291.6,	232.3,	-18.4,	79.8,
19	16.8,	324.6,	276.5,	-56.3,	95.1,	20	16.8,	350.7,	315.2,	-93.5,	108.0,
21	16.8,	366.1,	344.4,	-127.8,	117.6,	22	16.8,	370.4,	363.1,	-158.3,	123.6,
23	16.8,	363.5,	370.8,	-184.0,	125.9,	24	16.8,	345.5,	367.2,	-204.1,	124.3,
25	16.8,	317.0,	352.4,	-217.9,	119.0,	26	16.8,	278.9,	327.0,	-225.2,	110.1,
27	16.8,	232.3,	291.6,	-225.6,	97.8,	28	16.8,	276.5,	324.6,	-257.4,	82.0,
29	16.8,	315.2,	350.7,	-283.3,	64.1,	30	16.8,	344.4,	366.1,	-300.6,	44.4,
31	16.8,	363.1,	370.4,	-308.8,	23.2,	32	16.8,	370.8,	363.5,	-307.6,	1.4,
33	16.8,	367.2,	345.5,	-297.1,	-20.5,	34	16.8,	352.4,	317.0,	-277.5,	-41.7,
35	16.8,	327.0,	278.9,	-249.5,	-61.7,	36	16.8,	291.6,	232.3,	-213.9,	-79.8,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK161

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-219.4,	-99.9,	2	16.8,	350.7,	315.2,	-220.1,	-112.5,
3	16.8,	366.1,	344.4,	-214.1,	-121.8,	4	16.8,	370.4,	363.1,	-201.7,	-127.3,
5	16.8,	363.5,	370.8,	-183.1,	-129.0,	6	16.8,	345.5,	367.2,	-158.9,	-126.8,
7	16.8,	317.0,	352.4,	-130.0,	-120.7,	8	16.8,	278.9,	327.0,	-97.0,	-110.9,
9	16.8,	232.3,	291.6,	-61.1,	-97.8,	10	16.8,	276.5,	324.6,	-62.4,	-81.1,
11	16.8,	315.2,	350.7,	-62.8,	-62.5,	12	16.8,	344.4,	366.1,	-61.3,	-41.9,
13	16.8,	363.1,	370.4,	-57.9,	-20.1,	14	16.8,	370.8,	363.5,	-52.7,	2.3,
15	16.8,	367.2,	345.5,	-46.0,	24.7,	16	16.8,	352.4,	317.0,	-37.8,	46.3,
17	16.8,	327.0,	278.9,	-28.5,	66.5,	18	16.8,	291.6,	232.3,	-18.4,	84.7,
19	16.8,	324.6,	276.5,	-57.1,	99.9,	20	16.8,	350.7,	315.2,	-95.1,	112.5,
21	16.8,	366.1,	344.4,	-130.3,	121.8,	22	16.8,	370.4,	363.1,	-161.4,	127.3,
23	16.8,	363.5,	370.8,	-187.7,	129.0,	24	16.8,	345.5,	367.2,	-208.3,	126.8,
25	16.8,	317.0,	352.4,	-222.5,	120.7,	26	16.8,	278.9,	327.0,	-230.0,	110.9,
27	16.8,	232.3,	291.6,	-230.5,	97.8,	28	16.8,	276.5,	324.6,	-262.2,	81.1,
29	16.8,	315.2,	350.7,	-287.9,	62.5,	30	16.8,	344.4,	366.1,	-304.8,	41.9,
31	16.8,	363.1,	370.4,	-312.5,	20.1,	32	16.8,	370.8,	363.5,	-310.8,	-2.3,
33	16.8,	367.2,	345.5,	-299.5,	-24.7,	34	16.8,	352.4,	317.0,	-279.2,	-46.3,
35	16.8,	327.0,	278.9,	-250.4,	-66.5,	36	16.8,	291.6,	232.3,	-213.9,	-84.7,

SOURCE ID: STCK162

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-218.6,	-104.4,	2	16.8,	350.7,	315.2,	-218.5,	-116.9,
3	16.8,	366.1,	344.4,	-211.8,	-125.8,	4	16.8,	370.4,	363.1,	-198.7,	-130.9,
5	16.8,	363.5,	370.8,	-179.5,	-132.0,	6	16.8,	345.5,	367.2,	-154.9,	-129.1,
7	16.8,	317.0,	352.4,	-125.6,	-122.3,	8	16.8,	278.9,	327.0,	-92.5,	-111.7,
9	16.8,	232.3,	291.6,	-56.5,	-97.8,	10	16.8,	276.5,	324.6,	-57.8,	-80.3,
11	16.8,	315.2,	350.7,	-58.4,	-60.9,	12	16.8,	344.4,	366.1,	-57.2,	-39.6,
13	16.8,	363.1,	370.4,	-54.3,	-17.1,	14	16.8,	370.8,	363.5,	-49.7,	5.9,
15	16.8,	367.2,	345.5,	-43.6,	28.7,	16	16.8,	352.4,	317.0,	-36.2,	50.6,
17	16.8,	327.0,	278.9,	-27.7,	71.0,	18	16.8,	291.6,	232.3,	-18.4,	89.3,
19	16.8,	324.6,	276.5,	-57.9,	104.4,	20	16.8,	350.7,	315.2,	-96.7,	116.9,
21	16.8,	366.1,	344.4,	-132.6,	125.8,	22	16.8,	370.4,	363.1,	-164.4,	130.9,
23	16.8,	363.5,	370.8,	-191.3,	132.0,	24	16.8,	345.5,	367.2,	-212.3,	129.1,
25	16.8,	317.0,	352.4,	-226.9,	122.3,	26	16.8,	278.9,	327.0,	-234.5,	111.7,
27	16.8,	232.3,	291.6,	-235.1,	97.8,	28	16.8,	276.5,	324.6,	-266.7,	80.3,
29	16.8,	315.2,	350.7,	-292.2,	60.9,	30	16.8,	344.4,	366.1,	-308.9,	39.6,
31	16.8,	363.1,	370.4,	-316.1,	17.1,	32	16.8,	370.8,	363.5,	-313.7,	-5.9,
33	16.8,	367.2,	345.5,	-301.8,	-28.7,	34	16.8,	352.4,	317.0,	-280.8,	-50.6,
35	16.8,	327.0,	278.9,	-251.2,	-71.0,	36	16.8,	291.6,	232.3,	-213.9,	-89.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK163

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-217.8,	-109.0,	2	16.8,	350.7,	315.2,	-216.9,	-121.3,
3	16.8,	366.1,	344.4,	-209.5,	-129.8,	4	16.8,	370.4,	363.1,	-195.7,	-134.4,
5	16.8,	363.5,	370.8,	-176.0,	-135.0,	6	16.8,	345.5,	367.2,	-150.9,	-131.4,
7	16.8,	317.0,	352.4,	-121.2,	-123.9,	8	16.8,	278.9,	327.0,	-87.9,	-112.5,
9	16.8,	232.3,	291.6,	-51.9,	-97.8,	10	16.8,	276.5,	324.6,	-53.3,	-79.5,
11	16.8,	315.2,	350.7,	-54.1,	-59.3,	12	16.8,	344.4,	366.1,	-53.2,	-37.3,
13	16.8,	363.1,	370.4,	-50.8,	-14.2,	14	16.8,	370.8,	363.5,	-46.8,	9.4,
15	16.8,	367.2,	345.5,	-41.3,	32.7,	16	16.8,	352.4,	317.0,	-34.6,	55.0,
17	16.8,	327.0,	278.9,	-26.9,	75.6,	18	16.8,	291.6,	232.3,	-18.4,	93.9,
19	16.8,	324.6,	276.5,	-58.7,	109.0,	20	16.8,	350.7,	315.2,	-98.3,	121.3,
21	16.8,	366.1,	344.4,	-134.9,	129.8,	22	16.8,	370.4,	363.1,	-167.4,	134.4,
23	16.8,	363.5,	370.8,	-194.8,	135.0,	24	16.8,	345.5,	367.2,	-216.3,	131.4,
25	16.8,	317.0,	352.4,	-231.2,	123.9,	26	16.8,	278.9,	327.0,	-239.1,	112.5,
27	16.8,	232.3,	291.6,	-239.7,	97.8,	28	16.8,	276.5,	324.6,	-271.3,	79.5,
29	16.8,	315.2,	350.7,	-296.6,	59.3,	30	16.8,	344.4,	366.1,	-312.9,	37.3,
31	16.8,	363.1,	370.4,	-319.7,	14.2,	32	16.8,	370.8,	363.5,	-316.7,	-9.4,
33	16.8,	367.2,	345.5,	-304.2,	-32.7,	34	16.8,	352.4,	317.0,	-282.4,	-55.0,
35	16.8,	327.0,	278.9,	-252.0,	-75.6,	36	16.8,	291.6,	232.3,	-213.9,	-93.9,

SOURCE ID: STCK164

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	324.6,	276.5,	-217.1,	-112.7,	2	16.8,	350.7,	315.2,	-215.6,	-124.8,
3	16.8,	366.1,	344.4,	-207.6,	-133.1,	4	16.8,	370.4,	363.1,	-193.3,	-137.3,
5	16.8,	363.5,	370.8,	-173.1,	-137.4,	6	16.8,	345.5,	367.2,	-147.7,	-133.3,
7	16.8,	317.0,	352.4,	-117.7,	-125.1,	8	16.8,	278.9,	327.0,	-84.2,	-113.2,
9	16.8,	232.3,	291.6,	-48.1,	-97.8,	10	16.8,	276.5,	324.6,	-49.6,	-78.9,
11	16.8,	315.2,	350.7,	-50.5,	-58.0,	12	16.8,	344.4,	366.1,	-50.0,	-35.4,
13	16.8,	363.1,	370.4,	-47.9,	-11.8,	14	16.8,	370.8,	363.5,	-44.3,	12.3,
15	16.8,	367.2,	345.5,	-39.4,	35.9,	16	16.8,	352.4,	317.0,	-33.4,	58.5,
17	16.8,	327.0,	278.9,	-26.2,	79.3,	18	16.8,	291.6,	232.3,	-18.4,	97.7,
19	16.8,	324.6,	276.5,	-59.4,	112.7,	20	16.8,	350.7,	315.2,	-99.6,	124.8,
21	16.8,	366.1,	344.4,	-136.8,	133.1,	22	16.8,	370.4,	363.1,	-169.8,	137.3,
23	16.8,	363.5,	370.8,	-197.7,	137.4,	24	16.8,	345.5,	367.2,	-219.6,	133.3,
25	16.8,	317.0,	352.4,	-234.7,	125.1,	26	16.8,	278.9,	327.0,	-242.8,	113.2,
27	16.8,	232.3,	291.6,	-243.5,	97.8,	28	16.8,	276.5,	324.6,	-275.0,	78.9,
29	16.8,	315.2,	350.7,	-300.1,	58.0,	30	16.8,	344.4,	366.1,	-316.1,	35.4,
31	16.8,	363.1,	370.4,	-322.5,	11.8,	32	16.8,	370.8,	363.5,	-319.1,	-12.3,
33	16.8,	367.2,	345.5,	-306.0,	-35.9,	34	16.8,	352.4,	317.0,	-283.6,	-58.5,
35	16.8,	327.0,	278.9,	-252.6,	-79.3,	36	16.8,	291.6,	232.3,	-213.9,	-97.7,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK165

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	155.4,	105.7,	-36.2,	36.1,	2	13.7,	162.8,	126.1,	-52.9,	38.3,
3	13.7,	165.2,	142.7,	-68.0,	39.4,	4	13.7,	162.6,	155.0,	-81.0,	39.2,
5	13.7,	155.0,	162.6,	-91.5,	37.9,	6	13.7,	142.7,	165.2,	-99.2,	35.5,
7	13.7,	126.1,	162.8,	-104.0,	31.9,	8	13.7,	105.7,	155.4,	-105.5,	27.4,
9	13.7,	82.5,	143.8,	-104.4,	22.3,	10	13.7,	105.7,	155.4,	-113.8,	16.6,
11	13.7,	126.1,	162.8,	-119.7,	10.2,	12	13.7,	142.7,	165.2,	-122.0,	3.4,
13	13.7,	155.0,	162.6,	-120.5,	-3.4,	14	13.7,	162.6,	155.0,	-115.4,	-10.2,
15	13.7,	165.2,	142.7,	-106.8,	-16.7,	16	13.7,	162.8,	126.1,	-95.0,	-22.6,
17	13.7,	155.4,	105.7,	-80.2,	-27.8,	18	13.7,	143.8,	82.5,	-63.6,	-32.5,
19	13.7,	155.4,	105.7,	-69.5,	-36.1,	20	13.7,	162.8,	126.1,	-73.2,	-38.3,
21	13.7,	165.2,	142.7,	-74.8,	-39.4,	22	13.7,	162.6,	155.0,	-74.0,	-39.2,
23	13.7,	155.0,	162.6,	-71.1,	-37.9,	24	13.7,	142.7,	165.2,	-65.9,	-35.5,
25	13.7,	126.1,	162.8,	-58.8,	-31.9,	26	13.7,	105.7,	155.4,	-49.9,	-27.4,
27	13.7,	82.5,	143.8,	-39.4,	-22.3,	28	13.7,	105.7,	155.4,	-41.6,	-16.6,
29	13.7,	126.1,	162.8,	-43.1,	-10.2,	30	13.7,	142.7,	165.2,	-43.2,	-3.4,
31	13.7,	155.0,	162.6,	-42.0,	3.4,	32	13.7,	162.6,	155.0,	-39.6,	10.2,
33	13.7,	165.2,	142.7,	-35.9,	16.7,	34	13.7,	162.8,	126.1,	-31.1,	22.6,
35	13.7,	155.4,	105.7,	-25.4,	27.8,	36	13.7,	143.8,	82.5,	-19.0,	32.5,

SOURCE ID: STCK166

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	155.4,	105.7,	-35.5,	31.7,	2	13.7,	162.8,	126.1,	-51.4,	34.2,
3	13.7,	165.2,	142.7,	-65.8,	35.5,	4	13.7,	162.6,	155.0,	-78.1,	35.9,
5	13.7,	155.0,	162.6,	-88.1,	35.1,	6	13.7,	142.7,	165.2,	-95.4,	33.3,
7	13.7,	126.1,	162.8,	-99.8,	30.4,	8	13.7,	105.7,	155.4,	-101.2,	26.6,
9	13.7,	82.5,	143.8,	-100.0,	22.3,	10	13.7,	105.7,	155.4,	-109.4,	17.4,
11	13.7,	126.1,	162.8,	-115.5,	11.7,	12	13.7,	142.7,	165.2,	-118.1,	5.6,
13	13.7,	155.0,	162.6,	-117.1,	-0.6,	14	13.7,	162.6,	155.0,	-112.6,	-6.8,
15	13.7,	165.2,	142.7,	-104.6,	-12.8,	16	13.7,	162.8,	126.1,	-93.5,	-18.4,
17	13.7,	155.4,	105.7,	-79.5,	-23.5,	18	13.7,	143.8,	82.5,	-63.6,	-28.1,
19	13.7,	155.4,	105.7,	-70.2,	-31.7,	20	13.7,	162.8,	126.1,	-74.7,	-34.2,
21	13.7,	165.2,	142.7,	-77.0,	-35.5,	22	13.7,	162.6,	155.0,	-76.9,	-35.9,
23	13.7,	155.0,	162.6,	-74.5,	-35.1,	24	13.7,	142.7,	165.2,	-69.8,	-33.3,
25	13.7,	126.1,	162.8,	-62.9,	-30.4,	26	13.7,	105.7,	155.4,	-54.2,	-26.6,
27	13.7,	82.5,	143.8,	-43.8,	-22.3,	28	13.7,	105.7,	155.4,	-46.0,	-17.4,
29	13.7,	126.1,	162.8,	-47.2,	-11.7,	30	13.7,	142.7,	165.2,	-47.0,	-5.6,
31	13.7,	155.0,	162.6,	-45.4,	0.6,	32	13.7,	162.6,	155.0,	-42.4,	6.8,
33	13.7,	165.2,	142.7,	-38.1,	12.8,	34	13.7,	162.8,	126.1,	-32.6,	18.4,
35	13.7,	155.4,	105.7,	-26.2,	23.5,	36	13.7,	143.8,	82.5,	-19.0,	28.1,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK167

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	155.4,	105.7,	-34.7,	27.2,	2	13.7,	162.8,	126.1,	-49.8,	29.8,
3	13.7,	165.2,	142.7,	-63.4,	31.5,	4	13.7,	162.6,	155.0,	-75.1,	32.3,
5	13.7,	155.0,	162.6,	-84.5,	32.1,	6	13.7,	142.7,	165.2,	-91.4,	30.9,
7	13.7,	126.1,	162.8,	-95.5,	28.8,	8	13.7,	105.7,	155.4,	-96.6,	25.8,
9	13.7,	82.5,	143.8,	-95.3,	22.3,	10	13.7,	105.7,	155.4,	-104.9,	18.2,
11	13.7,	126.1,	162.8,	-111.2,	13.2,	12	13.7,	142.7,	165.2,	-114.1,	7.9,
13	13.7,	155.0,	162.6,	-113.6,	2.4,	14	13.7,	162.6,	155.0,	-109.6,	-3.3,
15	13.7,	165.2,	142.7,	-102.3,	-8.8,	16	13.7,	162.8,	126.1,	-91.9,	-14.1,
17	13.7,	155.4,	105.7,	-78.7,	-18.9,	18	13.7,	143.8,	82.5,	-63.6,	-23.4,
19	13.7,	155.4,	105.7,	-71.0,	-27.2,	20	13.7,	162.8,	126.1,	-76.3,	-29.8,
21	13.7,	165.2,	142.7,	-79.3,	-31.5,	22	13.7,	162.6,	155.0,	-79.9,	-32.3,
23	13.7,	155.0,	162.6,	-78.0,	-32.1,	24	13.7,	142.7,	165.2,	-73.8,	-30.9,
25	13.7,	126.1,	162.8,	-67.3,	-28.8,	26	13.7,	105.7,	155.4,	-58.8,	-25.8,
27	13.7,	82.5,	143.8,	-48.5,	-22.3,	28	13.7,	105.7,	155.4,	-50.6,	-18.2,
29	13.7,	126.1,	162.8,	-51.6,	-13.2,	30	13.7,	142.7,	165.2,	-51.0,	-7.9,
31	13.7,	155.0,	162.6,	-49.0,	-2.4,	32	13.7,	162.6,	155.0,	-45.4,	3.3,
33	13.7,	165.2,	142.7,	-40.4,	8.8,	34	13.7,	162.8,	126.1,	-34.2,	14.1,
35	13.7,	155.4,	105.7,	-27.0,	18.9,	36	13.7,	143.8,	82.5,	-19.0,	23.4,

SOURCE ID: STCK168

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	155.4,	105.7,	-33.9,	23.0,	2	13.7,	162.8,	126.1,	-48.4,	25.9,
3	13.7,	165.2,	142.7,	-61.3,	27.9,	4	13.7,	162.6,	155.0,	-72.4,	29.1,
5	13.7,	155.0,	162.6,	-81.3,	29.4,	6	13.7,	142.7,	165.2,	-87.8,	28.8,
7	13.7,	126.1,	162.8,	-91.5,	27.4,	8	13.7,	105.7,	155.4,	-92.5,	25.1,
9	13.7,	82.5,	143.8,	-91.1,	22.3,	10	13.7,	105.7,	155.4,	-100.7,	18.9,
11	13.7,	126.1,	162.8,	-107.2,	14.7,	12	13.7,	142.7,	165.2,	-110.5,	10.0,
13	13.7,	155.0,	162.6,	-110.4,	5.1,	14	13.7,	162.6,	155.0,	-106.9,	-0.1,
15	13.7,	165.2,	142.7,	-100.2,	-5.2,	16	13.7,	162.8,	126.1,	-90.5,	-10.1,
17	13.7,	155.4,	105.7,	-78.0,	-14.8,	18	13.7,	143.8,	82.5,	-63.6,	-19.2,
19	13.7,	155.4,	105.7,	-71.8,	-23.0,	20	13.7,	162.8,	126.1,	-77.8,	-25.9,
21	13.7,	165.2,	142.7,	-81.4,	-27.9,	22	13.7,	162.6,	155.0,	-82.6,	-29.1,
23	13.7,	155.0,	162.6,	-81.2,	-29.4,	24	13.7,	142.7,	165.2,	-77.4,	-28.8,
25	13.7,	126.1,	162.8,	-71.2,	-27.4,	26	13.7,	105.7,	155.4,	-62.9,	-25.1,
27	13.7,	82.5,	143.8,	-52.7,	-22.3,	28	13.7,	105.7,	155.4,	-54.7,	-18.9,
29	13.7,	126.1,	162.8,	-55.5,	-14.7,	30	13.7,	142.7,	165.2,	-54.7,	-10.0,
31	13.7,	155.0,	162.6,	-52.2,	-5.1,	32	13.7,	162.6,	155.0,	-48.1,	0.1,
33	13.7,	165.2,	142.7,	-42.5,	5.2,	34	13.7,	162.8,	126.1,	-35.7,	10.1,
35	13.7,	155.4,	105.7,	-27.7,	14.8,	36	13.7,	143.8,	82.5,	-19.0,	19.2,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK169

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	155.4,	105.7,	-32.5,	15.0,	2	13.7,	162.8,	126.1,	-45.6,	18.2,
3	13.7,	165.2,	142.7,	-57.2,	20.8,	4	13.7,	162.6,	155.0,	-67.2,	22.8,
5	13.7,	155.0,	162.6,	-75.1,	24.2,	6	13.7,	142.7,	165.2,	-80.7,	24.8,
7	13.7,	126.1,	162.8,	-83.8,	24.6,	8	13.7,	105.7,	155.4,	-84.5,	23.7,
9	13.7,	82.5,	143.8,	-83.0,	22.3,	10	13.7,	105.7,	155.4,	-92.7,	20.3,
11	13.7,	126.1,	162.8,	-99.5,	17.5,	12	13.7,	142.7,	165.2,	-103.4,	14.1,
13	13.7,	155.0,	162.6,	-104.1,	10.3,	14	13.7,	162.6,	155.0,	-101.7,	6.2,
15	13.7,	165.2,	142.7,	-96.1,	1.9,	16	13.7,	162.8,	126.1,	-87.7,	-2.5,
17	13.7,	155.4,	105.7,	-76.5,	-6.7,	18	13.7,	143.8,	82.5,	-63.6,	-11.1,
19	13.7,	155.4,	105.7,	-73.2,	-15.0,	20	13.7,	162.8,	126.1,	-80.5,	-18.2,
21	13.7,	165.2,	142.7,	-85.5,	-20.8,	22	13.7,	162.6,	155.0,	-87.8,	-22.8,
23	13.7,	155.0,	162.6,	-87.5,	-24.2,	24	13.7,	142.7,	165.2,	-84.5,	-24.8,
25	13.7,	126.1,	162.8,	-78.9,	-24.6,	26	13.7,	105.7,	155.4,	-71.0,	-23.7,
27	13.7,	82.5,	143.8,	-60.8,	-22.3,	28	13.7,	105.7,	155.4,	-62.7,	-20.3,
29	13.7,	126.1,	162.8,	-63.2,	-17.5,	30	13.7,	142.7,	165.2,	-61.8,	-14.1,
31	13.7,	155.0,	162.6,	-58.4,	-10.3,	32	13.7,	162.6,	155.0,	-53.3,	-6.2,
33	13.7,	165.2,	142.7,	-46.6,	-1.9,	34	13.7,	162.8,	126.1,	-38.5,	2.5,
35	13.7,	155.4,	105.7,	-29.2,	6.7,	36	13.7,	143.8,	82.5,	-19.0,	11.1,

SOURCE ID: STCK170

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	155.4,	105.7,	-31.7,	10.4,	2	13.7,	162.8,	126.1,	-44.0,	13.8,
3	13.7,	165.2,	142.7,	-54.9,	16.8,	4	13.7,	162.6,	155.0,	-64.2,	19.3,
5	13.7,	155.0,	162.6,	-71.5,	21.2,	6	13.7,	142.7,	165.2,	-76.7,	22.4,
7	13.7,	126.1,	162.8,	-79.5,	23.0,	8	13.7,	105.7,	155.4,	-79.9,	22.9,
9	13.7,	82.5,	143.8,	-78.3,	22.3,	10	13.7,	105.7,	155.4,	-88.1,	21.1,
11	13.7,	126.1,	162.8,	-95.2,	19.1,	12	13.7,	142.7,	165.2,	-99.4,	16.4,
13	13.7,	155.0,	162.6,	-100.6,	13.3,	14	13.7,	162.6,	155.0,	-98.7,	9.8,
15	13.7,	165.2,	142.7,	-93.8,	5.9,	16	13.7,	162.8,	126.1,	-86.1,	1.9,
17	13.7,	155.4,	105.7,	-75.7,	-2.2,	18	13.7,	143.8,	82.5,	-63.6,	-6.4,
19	13.7,	155.4,	105.7,	-74.0,	-10.4,	20	13.7,	162.8,	126.1,	-82.1,	-13.8,
21	13.7,	165.2,	142.7,	-87.8,	-16.8,	22	13.7,	162.6,	155.0,	-90.8,	-19.3,
23	13.7,	155.0,	162.6,	-91.0,	-21.2,	24	13.7,	142.7,	165.2,	-88.5,	-22.4,
25	13.7,	126.1,	162.8,	-83.3,	-23.0,	26	13.7,	105.7,	155.4,	-75.5,	-22.9,
27	13.7,	82.5,	143.8,	-65.5,	-22.3,	28	13.7,	105.7,	155.4,	-67.3,	-21.1,
29	13.7,	126.1,	162.8,	-67.6,	-19.1,	30	13.7,	142.7,	165.2,	-65.8,	-16.4,
31	13.7,	155.0,	162.6,	-62.0,	-13.3,	32	13.7,	162.6,	155.0,	-56.3,	-9.8,
33	13.7,	165.2,	142.7,	-48.9,	-5.9,	34	13.7,	162.8,	126.1,	-40.0,	-1.9,
35	13.7,	155.4,	105.7,	-30.0,	2.2,	36	13.7,	143.8,	82.5,	-19.0,	6.4,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK171

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	155.4,	105.7,	-31.0,	6.3,	2	13.7,	162.8,	126.1,	-42.6,	9.9,
3	13.7,	165.2,	142.7,	-52.8,	13.2,	4	13.7,	162.6,	155.0,	-61.5,	16.1,
5	13.7,	155.0,	162.6,	-68.3,	18.5,	6	13.7,	142.7,	165.2,	-73.0,	20.3,
7	13.7,	126.1,	162.8,	-75.5,	21.6,	8	13.7,	105.7,	155.4,	-75.8,	22.2,
9	13.7,	82.5,	143.8,	-74.1,	22.3,	10	13.7,	105.7,	155.4,	-84.0,	21.9,
11	13.7,	126.1,	162.8,	-91.2,	20.5,	12	13.7,	142.7,	165.2,	-95.8,	18.5,
13	13.7,	155.0,	162.6,	-97.3,	16.0,	14	13.7,	162.6,	155.0,	-96.0,	13.0,
15	13.7,	165.2,	142.7,	-91.7,	9.6,	16	13.7,	162.8,	126.1,	-84.6,	5.8,
17	13.7,	155.4,	105.7,	-75.0,	2.0,	18	13.7,	143.8,	82.5,	-63.6,	-2.2,
19	13.7,	155.4,	105.7,	-74.7,	-6.3,	20	13.7,	162.8,	126.1,	-83.6,	-9.9,
21	13.7,	165.2,	142.7,	-89.9,	-13.2,	22	13.7,	162.6,	155.0,	-93.5,	-16.1,
23	13.7,	155.0,	162.6,	-94.2,	-18.5,	24	13.7,	142.7,	165.2,	-92.1,	-20.3,
25	13.7,	126.1,	162.8,	-87.2,	-21.6,	26	13.7,	105.7,	155.4,	-79.7,	-22.2,
27	13.7,	82.5,	143.8,	-69.7,	-22.3,	28	13.7,	105.7,	155.4,	-71.4,	-21.9,
29	13.7,	126.1,	162.8,	-71.5,	-20.5,	30	13.7,	142.7,	165.2,	-69.4,	-18.5,
31	13.7,	155.0,	162.6,	-65.2,	-16.0,	32	13.7,	162.6,	155.0,	-59.0,	-13.0,
33	13.7,	165.2,	142.7,	-51.0,	-9.6,	34	13.7,	162.8,	126.1,	-41.5,	-5.8,
35	13.7,	155.4,	105.7,	-30.7,	-2.0,	36	13.7,	143.8,	82.5,	-19.0,	2.2,

SOURCE ID: STCK172

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	155.4,	105.7,	-30.3,	2.6,	2	13.7,	162.8,	126.1,	-41.3,	6.3,
3	13.7,	165.2,	142.7,	-51.0,	9.9,	4	13.7,	162.6,	155.0,	-59.1,	13.2,
5	13.7,	155.0,	162.6,	-65.4,	16.1,	6	13.7,	142.7,	165.2,	-69.8,	18.5,
7	13.7,	126.1,	162.8,	-72.0,	20.3,	8	13.7,	105.7,	155.4,	-72.1,	21.5,
9	13.7,	82.5,	143.8,	-70.4,	22.3,	10	13.7,	105.7,	155.4,	-80.3,	22.5,
11	13.7,	126.1,	162.8,	-87.7,	21.8,	12	13.7,	142.7,	165.2,	-92.5,	20.4,
13	13.7,	155.0,	162.6,	-94.5,	18.4,	14	13.7,	162.6,	155.0,	-93.6,	15.8,
15	13.7,	165.2,	142.7,	-89.8,	12.8,	16	13.7,	162.8,	126.1,	-83.3,	9.4,
17	13.7,	155.4,	105.7,	-74.3,	5.6,	18	13.7,	143.8,	82.5,	-63.6,	1.5,
19	13.7,	155.4,	105.7,	-75.4,	-2.6,	20	13.7,	162.8,	126.1,	-84.8,	-6.3,
21	13.7,	165.2,	142.7,	-91.8,	-9.9,	22	13.7,	162.6,	155.0,	-95.9,	-13.2,
23	13.7,	155.0,	162.6,	-97.1,	-16.1,	24	13.7,	142.7,	165.2,	-95.4,	-18.5,
25	13.7,	126.1,	162.8,	-90.7,	-20.3,	26	13.7,	105.7,	155.4,	-83.3,	-21.5,
27	13.7,	82.5,	143.8,	-73.4,	-22.3,	28	13.7,	105.7,	155.4,	-75.1,	-22.5,
29	13.7,	126.1,	162.8,	-75.0,	-21.8,	30	13.7,	142.7,	165.2,	-72.6,	-20.4,
31	13.7,	155.0,	162.6,	-68.1,	-18.4,	32	13.7,	162.6,	155.0,	-61.4,	-15.8,
33	13.7,	165.2,	142.7,	-52.9,	-12.8,	34	13.7,	162.8,	126.1,	-42.8,	-9.4,
35	13.7,	155.4,	105.7,	-31.4,	-5.6,	36	13.7,	143.8,	82.5,	-19.0,	-1.5,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK173

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	155.4,	105.7,	-29.6,	-1.6,	2	13.7,	162.8,	126.1,	-39.8,	2.4,
3	13.7,	165.2,	142.7,	-48.9,	6.3,	4	13.7,	162.6,	155.0,	-56.4,	10.0,
5	13.7,	155.0,	162.6,	-62.2,	13.4,	6	13.7,	142.7,	165.2,	-66.1,	16.4,
7	13.7,	126.1,	162.8,	-68.1,	18.9,	8	13.7,	105.7,	155.4,	-67.9,	20.8,
9	13.7,	82.5,	143.8,	-66.2,	22.3,	10	13.7,	105.7,	155.4,	-76.1,	23.2,
11	13.7,	126.1,	162.8,	-83.8,	23.2,	12	13.7,	142.7,	165.2,	-88.9,	22.5,
13	13.7,	155.0,	162.6,	-91.3,	21.1,	14	13.7,	162.6,	155.0,	-90.9,	19.1,
15	13.7,	165.2,	142.7,	-87.7,	16.4,	16	13.7,	162.8,	126.1,	-81.9,	13.3,
17	13.7,	155.4,	105.7,	-73.6,	9.8,	18	13.7,	143.8,	82.5,	-63.6,	5.7,
19	13.7,	155.4,	105.7,	-76.1,	1.6,	20	13.7,	162.8,	126.1,	-86.3,	-2.4,
21	13.7,	165.2,	142.7,	-93.9,	-6.3,	22	13.7,	162.6,	155.0,	-98.6,	-10.0,
23	13.7,	155.0,	162.6,	-100.3,	-13.4,	24	13.7,	142.7,	165.2,	-99.0,	-16.4,
25	13.7,	126.1,	162.8,	-94.7,	-18.9,	26	13.7,	105.7,	155.4,	-87.5,	-20.8,
27	13.7,	82.5,	143.8,	-77.6,	-22.3,	28	13.7,	105.7,	155.4,	-79.3,	-23.2,
29	13.7,	126.1,	162.8,	-79.0,	-23.2,	30	13.7,	142.7,	165.2,	-76.3,	-22.5,
31	13.7,	155.0,	162.6,	-71.3,	-21.1,	32	13.7,	162.6,	155.0,	-64.1,	-19.1,
33	13.7,	165.2,	142.7,	-55.0,	-16.4,	34	13.7,	162.8,	126.1,	-44.2,	-13.3,
35	13.7,	155.4,	105.7,	-32.1,	-9.8,	36	13.7,	143.8,	82.5,	-19.0,	-5.7,

SOURCE ID: STCK174

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	155.4,	105.7,	-28.8,	-6.1,	2	13.7,	162.8,	126.1,	-38.2,	-2.0,
3	13.7,	165.2,	142.7,	-46.5,	2.3,	4	13.7,	162.6,	155.0,	-53.4,	6.4,
5	13.7,	155.0,	162.6,	-58.7,	10.4,	6	13.7,	142.7,	165.2,	-62.1,	14.1,
7	13.7,	126.1,	162.8,	-63.7,	17.3,	8	13.7,	105.7,	155.4,	-63.3,	20.0,
9	13.7,	82.5,	143.8,	-61.6,	22.3,	10	13.7,	105.7,	155.4,	-71.6,	24.0,
11	13.7,	126.1,	162.8,	-79.4,	24.8,	12	13.7,	142.7,	165.2,	-84.8,	24.8,
13	13.7,	155.0,	162.6,	-87.7,	24.1,	14	13.7,	162.6,	155.0,	-87.9,	22.6,
15	13.7,	165.2,	142.7,	-85.4,	20.4,	16	13.7,	162.8,	126.1,	-80.3,	17.7,
17	13.7,	155.4,	105.7,	-72.8,	14.4,	18	13.7,	143.8,	82.5,	-63.6,	10.4,
19	13.7,	155.4,	105.7,	-76.9,	6.1,	20	13.7,	162.8,	126.1,	-87.9,	2.0,
21	13.7,	165.2,	142.7,	-96.2,	-2.3,	22	13.7,	162.6,	155.0,	-101.6,	-6.4,
23	13.7,	155.0,	162.6,	-103.9,	-10.4,	24	13.7,	142.7,	165.2,	-103.0,	-14.1,
25	13.7,	126.1,	162.8,	-99.0,	-17.3,	26	13.7,	105.7,	155.4,	-92.1,	-20.0,
27	13.7,	82.5,	143.8,	-82.3,	-22.3,	28	13.7,	105.7,	155.4,	-83.8,	-24.0,
29	13.7,	126.1,	162.8,	-83.3,	-24.8,	30	13.7,	142.7,	165.2,	-80.3,	-24.8,
31	13.7,	155.0,	162.6,	-74.8,	-24.1,	32	13.7,	162.6,	155.0,	-67.1,	-22.6,
33	13.7,	165.2,	142.7,	-57.3,	-20.4,	34	13.7,	162.8,	126.1,	-45.8,	-17.7,
35	13.7,	155.4,	105.7,	-32.9,	-14.4,	36	13.7,	143.8,	82.5,	-19.0,	-10.4,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK175

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	155.4,	105.7,	-28.1,	-10.2,	2	13.7,	162.8,	126.1,	-36.8,	-5.9,
3	13.7,	165.2,	142.7,	-44.4,	-1.4,	4	13.7,	162.6,	155.0,	-50.7,	3.2,
5	13.7,	155.0,	162.6,	-55.4,	7.7,	6	13.7,	142.7,	165.2,	-58.5,	12.0,
7	13.7,	126.1,	162.8,	-59.8,	15.8,	8	13.7,	105.7,	155.4,	-59.2,	19.2,
9	13.7,	82.5,	143.8,	-57.4,	22.3,	10	13.7,	105.7,	155.4,	-67.5,	24.8,
11	13.7,	126.1,	162.8,	-75.5,	26.2,	12	13.7,	142.7,	165.2,	-81.2,	26.9,
13	13.7,	155.0,	162.6,	-84.5,	26.8,	14	13.7,	162.6,	155.0,	-85.2,	25.8,
15	13.7,	165.2,	142.7,	-83.3,	24.1,	16	13.7,	162.8,	126.1,	-78.9,	21.6,
17	13.7,	155.4,	105.7,	-72.1,	18.5,	18	13.7,	143.8,	82.5,	-63.6,	14.5,
19	13.7,	155.4,	105.7,	-77.6,	10.2,	20	13.7,	162.8,	126.1,	-89.3,	5.9,
21	13.7,	165.2,	142.7,	-98.3,	1.4,	22	13.7,	162.6,	155.0,	-104.3,	-3.2,
23	13.7,	155.0,	162.6,	-107.1,	-7.7,	24	13.7,	142.7,	165.2,	-106.7,	-12.0,
25	13.7,	126.1,	162.8,	-103.0,	-15.8,	26	13.7,	105.7,	155.4,	-96.2,	-19.2,
27	13.7,	82.5,	143.8,	-86.5,	-22.3,	28	13.7,	105.7,	155.4,	-88.0,	-24.8,
29	13.7,	126.1,	162.8,	-87.3,	-26.2,	30	13.7,	142.7,	165.2,	-83.9,	-26.9,
31	13.7,	155.0,	162.6,	-78.0,	-26.8,	32	13.7,	162.6,	155.0,	-69.8,	-25.8,
33	13.7,	165.2,	142.7,	-59.4,	-24.1,	34	13.7,	162.8,	126.1,	-47.2,	-21.6,
35	13.7,	155.4,	105.7,	-33.6,	-18.5,	36	13.7,	143.8,	82.5,	-19.0,	-14.5,

SOURCE ID: STCK176

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	155.4,	105.7,	-26.6,	-18.5,	2	13.7,	162.8,	126.1,	-33.9,	-13.8,
3	13.7,	165.2,	142.7,	-40.2,	-8.6,	4	13.7,	162.6,	155.0,	-45.3,	-3.2,
5	13.7,	155.0,	162.6,	-49.0,	2.3,	6	13.7,	142.7,	165.2,	-51.2,	7.8,
7	13.7,	126.1,	162.8,	-51.9,	13.0,	8	13.7,	105.7,	155.4,	-51.0,	17.8,
9	13.7,	82.5,	143.8,	-49.0,	22.3,	10	13.7,	105.7,	155.4,	-59.2,	26.2,
11	13.7,	126.1,	162.8,	-67.6,	29.1,	12	13.7,	142.7,	165.2,	-74.0,	31.1,
13	13.7,	155.0,	162.6,	-78.1,	32.2,	14	13.7,	162.6,	155.0,	-79.8,	32.2,
15	13.7,	165.2,	142.7,	-79.1,	31.4,	16	13.7,	162.8,	126.1,	-76.0,	29.5,
17	13.7,	155.4,	105.7,	-70.6,	26.7,	18	13.7,	143.8,	82.5,	-63.6,	22.9,
19	13.7,	155.4,	105.7,	-79.1,	18.5,	20	13.7,	162.8,	126.1,	-92.2,	13.8,
21	13.7,	165.2,	142.7,	-102.5,	8.6,	22	13.7,	162.6,	155.0,	-109.7,	3.2,
23	13.7,	155.0,	162.6,	-113.5,	-2.3,	24	13.7,	142.7,	165.2,	-113.9,	-7.8,
25	13.7,	126.1,	162.8,	-110.9,	-13.0,	26	13.7,	105.7,	155.4,	-104.5,	-17.8,
27	13.7,	82.5,	143.8,	-94.8,	-22.3,	28	13.7,	105.7,	155.4,	-96.2,	-26.2,
29	13.7,	126.1,	162.8,	-95.2,	-29.1,	30	13.7,	142.7,	165.2,	-91.2,	-31.1,
31	13.7,	155.0,	162.6,	-84.5,	-32.2,	32	13.7,	162.6,	155.0,	-75.2,	-32.2,
33	13.7,	165.2,	142.7,	-63.6,	-31.4,	34	13.7,	162.8,	126.1,	-50.1,	-29.5,
35	13.7,	155.4,	105.7,	-35.1,	-26.7,	36	13.7,	143.8,	82.5,	-19.0,	-22.9,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK177

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	155.4,	105.7,	-25.7,	-23.5,	2	13.7,	162.8,	126.1,	-32.2,	-18.6,
3	13.7,	165.2,	142.7,	-37.7,	-13.0,	4	13.7,	162.6,	155.0,	-42.1,	-7.1,
5	13.7,	155.0,	162.6,	-45.1,	-1.0,	6	13.7,	142.7,	165.2,	-46.8,	5.2,
7	13.7,	126.1,	162.8,	-47.1,	11.2,	8	13.7,	105.7,	155.4,	-46.0,	16.9,
9	13.7,	82.5,	143.8,	-43.9,	22.3,	10	13.7,	105.7,	155.4,	-54.2,	27.1,
11	13.7,	126.1,	162.8,	-62.8,	30.9,	12	13.7,	142.7,	165.2,	-69.6,	33.6,
13	13.7,	155.0,	162.6,	-74.2,	35.4,	14	13.7,	162.6,	155.0,	-76.5,	36.1,
15	13.7,	165.2,	142.7,	-76.6,	35.8,	16	13.7,	162.8,	126.1,	-74.3,	34.3,
17	13.7,	155.4,	105.7,	-69.7,	31.8,	18	13.7,	143.8,	82.5,	-63.6,	28.0,
19	13.7,	155.4,	105.7,	-80.0,	23.5,	20	13.7,	162.8,	126.1,	-93.9,	18.6,
21	13.7,	165.2,	142.7,	-105.0,	13.0,	22	13.7,	162.6,	155.0,	-112.9,	7.1,
23	13.7,	155.0,	162.6,	-117.4,	1.0,	24	13.7,	142.7,	165.2,	-118.3,	-5.2,
25	13.7,	126.1,	162.8,	-115.6,	-11.2,	26	13.7,	105.7,	155.4,	-109.5,	-16.9,
27	13.7,	82.5,	143.8,	-99.9,	-22.3,	28	13.7,	105.7,	155.4,	-101.2,	-27.1,
29	13.7,	126.1,	162.8,	-99.9,	-30.9,	30	13.7,	142.7,	165.2,	-95.6,	-33.6,
31	13.7,	155.0,	162.6,	-88.4,	-35.4,	32	13.7,	162.6,	155.0,	-78.5,	-36.1,
33	13.7,	165.2,	142.7,	-66.1,	-35.8,	34	13.7,	162.8,	126.1,	-51.8,	-34.3,
35	13.7,	155.4,	105.7,	-35.9,	-31.8,	36	13.7,	143.8,	82.5,	-19.0,	-28.0,

SOURCE ID: STCK178

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	155.4,	105.7,	-25.1,	-27.0,	2	13.7,	162.8,	126.1,	-31.0,	-21.9,
3	13.7,	165.2,	142.7,	-35.9,	-16.1,	4	13.7,	162.6,	155.0,	-39.8,	-9.8,
5	13.7,	155.0,	162.6,	-42.4,	-3.2,	6	13.7,	142.7,	165.2,	-43.8,	3.4,
7	13.7,	126.1,	162.8,	-43.8,	10.0,	8	13.7,	105.7,	155.4,	-42.5,	16.3,
9	13.7,	82.5,	143.8,	-40.4,	22.3,	10	13.7,	105.7,	155.4,	-50.7,	27.7,
11	13.7,	126.1,	162.8,	-59.5,	32.1,	12	13.7,	142.7,	165.2,	-66.5,	35.4,
13	13.7,	155.0,	162.6,	-71.5,	37.7,	14	13.7,	162.6,	155.0,	-74.3,	38.8,
15	13.7,	165.2,	142.7,	-74.8,	38.8,	16	13.7,	162.8,	126.1,	-73.1,	37.6,
17	13.7,	155.4,	105.7,	-69.1,	35.2,	18	13.7,	143.8,	82.5,	-63.6,	31.6,
19	13.7,	155.4,	105.7,	-80.6,	27.0,	20	13.7,	162.8,	126.1,	-95.1,	21.9,
21	13.7,	165.2,	142.7,	-106.8,	16.1,	22	13.7,	162.6,	155.0,	-115.2,	9.8,
23	13.7,	155.0,	162.6,	-120.1,	3.2,	24	13.7,	142.7,	165.2,	-121.4,	-3.4,
25	13.7,	126.1,	162.8,	-119.0,	-10.0,	26	13.7,	105.7,	155.4,	-112.9,	-16.3,
27	13.7,	82.5,	143.8,	-103.5,	-22.3,	28	13.7,	105.7,	155.4,	-104.7,	-27.7,
29	13.7,	126.1,	162.8,	-103.3,	-32.1,	30	13.7,	142.7,	165.2,	-98.7,	-35.4,
31	13.7,	155.0,	162.6,	-91.1,	-37.7,	32	13.7,	162.6,	155.0,	-80.7,	-38.8,
33	13.7,	165.2,	142.7,	-67.9,	-38.8,	34	13.7,	162.8,	126.1,	-53.0,	-37.6,
35	13.7,	155.4,	105.7,	-36.6,	-35.2,	36	13.7,	143.8,	82.5,	-19.0,	-31.6,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK179

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	143.4,	103.1,	-34.4,	35.4,	2	13.7,	151.5,	121.4,	-49.8,	37.9,
3	13.7,	155.0,	136.1,	-63.8,	39.3,	4	13.7,	153.7,	146.7,	-75.8,	39.5,
5	13.7,	147.8,	152.8,	-85.6,	38.5,	6	13.7,	137.4,	154.2,	-92.7,	36.4,
7	13.7,	122.8,	151.0,	-97.0,	33.1,	8	13.7,	104.5,	143.2,	-98.4,	28.8,
9	13.7,	83.5,	131.5,	-97.2,	23.4,	10	13.7,	103.1,	143.4,	-107.1,	17.2,
11	13.7,	121.4,	151.5,	-113.7,	10.9,	12	13.7,	136.1,	155.0,	-116.8,	4.2,
13	13.7,	146.7,	153.7,	-116.4,	-2.5,	14	13.7,	152.8,	147.8,	-112.4,	-9.2,
15	13.7,	154.2,	137.4,	-105.1,	-15.6,	16	13.7,	151.0,	122.8,	-94.5,	-21.5,
17	13.7,	143.2,	104.5,	-81.1,	-26.8,	18	13.7,	131.5,	83.5,	-65.2,	-31.5,
19	13.7,	143.4,	103.1,	-68.7,	-35.4,	20	13.7,	151.5,	121.4,	-71.6,	-37.9,
21	13.7,	155.0,	136.1,	-72.3,	-39.3,	22	13.7,	153.7,	146.7,	-70.8,	-39.5,
23	13.7,	155.0,	162.6,	-199.0,	69.9,	24	13.7,	142.7,	165.2,	-210.7,	48.5,
25	13.7,	126.1,	162.8,	-215.9,	25.6,	26	13.7,	105.7,	155.4,	-214.6,	2.0,
27	13.7,	82.5,	143.8,	-206.8,	-21.9,	28	13.7,	105.7,	155.4,	-206.5,	-45.3,
29	13.7,	126.1,	162.8,	-200.4,	-67.1,	30	13.7,	136.1,	155.0,	-38.2,	-4.2,
31	13.7,	146.7,	153.7,	-37.3,	2.5,	32	13.7,	152.8,	147.8,	-35.4,	9.2,
33	13.7,	154.2,	137.4,	-32.3,	15.6,	34	13.7,	151.0,	122.8,	-28.3,	21.5,
35	13.7,	143.2,	104.5,	-23.4,	26.8,	36	13.7,	131.5,	83.5,	-18.3,	31.5,

SOURCE ID: STCK180

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	143.4,	103.1,	-33.8,	31.9,	2	13.7,	151.5,	121.4,	-48.6,	34.6,
3	13.7,	155.0,	136.1,	-62.1,	36.3,	4	13.7,	153.7,	146.7,	-73.6,	36.8,
5	13.7,	147.8,	152.8,	-82.9,	36.3,	6	13.7,	137.4,	154.2,	-89.6,	34.6,
7	13.7,	122.8,	151.0,	-93.7,	31.9,	8	13.7,	104.5,	143.2,	-94.9,	28.2,
9	13.7,	83.5,	131.5,	-93.7,	23.4,	10	13.7,	103.1,	143.4,	-103.6,	17.8,
11	13.7,	121.4,	151.5,	-110.4,	12.1,	12	13.7,	136.1,	155.0,	-113.8,	6.0,
13	13.7,	146.7,	153.7,	-113.7,	-0.2,	14	13.7,	152.8,	147.8,	-110.2,	-6.5,
15	13.7,	154.2,	137.4,	-103.3,	-12.5,	16	13.7,	151.0,	122.8,	-93.3,	-18.2,
17	13.7,	143.2,	104.5,	-80.5,	-23.3,	18	13.7,	131.5,	83.5,	-65.2,	-28.0,
19	13.7,	143.4,	103.1,	-69.3,	-31.9,	20	13.7,	151.5,	121.4,	-72.8,	-34.6,
21	13.7,	155.0,	136.1,	-74.1,	-36.3,	22	13.7,	153.7,	146.7,	-73.1,	-36.8,
23	13.7,	155.0,	162.6,	-201.7,	72.1,	24	13.7,	142.7,	165.2,	-213.7,	50.2,
25	13.7,	126.1,	162.8,	-219.2,	26.8,	26	13.7,	105.7,	155.4,	-218.0,	2.6,
27	13.7,	82.5,	143.8,	-210.3,	-21.9,	28	13.7,	105.7,	155.4,	-209.9,	-45.9,
29	13.7,	126.1,	162.8,	-203.7,	-68.3,	30	13.7,	136.1,	155.0,	-41.2,	-6.0,
31	13.7,	146.7,	153.7,	-40.0,	0.2,	32	13.7,	152.8,	147.8,	-37.6,	6.5,
33	13.7,	154.2,	137.4,	-34.1,	12.5,	34	13.7,	151.0,	122.8,	-29.5,	18.2,
35	13.7,	143.2,	104.5,	-24.0,	23.3,	36	13.7,	131.5,	83.5,	-18.3,	28.0,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK181

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	143.4,	103.1,	-33.1,	28.0,	2	13.7,	151.5,	121.4,	-47.3,	30.9,
3	13.7,	155.0,	136.1,	-60.1,	32.8,	4	13.7,	153.7,	146.7,	-71.0,	33.8,
5	13.7,	147.8,	152.8,	-79.8,	33.7,	6	13.7,	137.4,	154.2,	-86.2,	32.6,
7	13.7,	122.8,	151.0,	-90.0,	30.5,	8	13.7,	104.5,	143.2,	-91.0,	27.5,
9	13.7,	83.5,	131.5,	-89.7,	23.4,	10	13.7,	103.1,	143.4,	-99.7,	18.5,
11	13.7,	121.4,	151.5,	-106.6,	13.4,	12	13.7,	136.1,	155.0,	-110.3,	8.0,
13	13.7,	146.7,	153.7,	-110.6,	2.3,	14	13.7,	152.8,	147.8,	-107.6,	-3.4,
15	13.7,	154.2,	137.4,	-101.3,	-9.1,	16	13.7,	151.0,	122.8,	-92.0,	-14.5,
17	13.7,	143.2,	104.5,	-79.8,	-19.4,	18	13.7,	131.5,	83.5,	-65.2,	-24.0,
19	13.7,	143.4,	103.1,	-70.0,	-28.0,	20	13.7,	151.5,	121.4,	-74.2,	-30.9,
21	13.7,	155.0,	136.1,	-76.1,	-32.8,	22	13.7,	153.7,	146.7,	-75.6,	-33.8,
23	13.7,	147.8,	152.8,	-72.9,	-33.7,	24	13.7,	137.4,	154.2,	-68.0,	-32.6,
25	13.7,	122.8,	151.0,	-61.0,	-30.5,	26	13.7,	104.5,	143.2,	-52.2,	-27.5,
27	13.7,	83.5,	131.5,	-41.8,	-23.4,	28	13.7,	103.1,	143.4,	-43.7,	-18.5,
29	13.7,	121.4,	151.5,	-44.9,	-13.4,	30	13.7,	136.1,	155.0,	-44.6,	-8.0,
31	13.7,	146.7,	153.7,	-43.1,	-2.3,	32	13.7,	152.8,	147.8,	-40.2,	3.4,
33	13.7,	154.2,	137.4,	-36.1,	9.1,	34	13.7,	151.0,	122.8,	-30.9,	14.5,
35	13.7,	143.2,	104.5,	-24.7,	19.4,	36	13.7,	131.5,	83.5,	-18.3,	24.0,

SOURCE ID: STCK182

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	143.4,	103.1,	-31.7,	20.3,	2	13.7,	151.5,	121.4,	-44.6,	23.5,
3	13.7,	155.0,	136.1,	-56.1,	26.1,	4	13.7,	153.7,	146.7,	-66.0,	27.8,
5	13.7,	147.8,	152.8,	-73.8,	28.7,	6	13.7,	137.4,	154.2,	-79.4,	28.7,
7	13.7,	122.8,	151.0,	-82.6,	27.9,	8	13.7,	104.5,	143.2,	-83.3,	26.2,
9	13.7,	83.5,	131.5,	-81.9,	23.4,	10	13.7,	103.1,	143.4,	-92.0,	19.8,
11	13.7,	121.4,	151.5,	-99.3,	16.1,	12	13.7,	136.1,	155.0,	-103.5,	11.9,
13	13.7,	146.7,	153.7,	-104.6,	7.3,	14	13.7,	152.8,	147.8,	-102.6,	2.5,
15	13.7,	154.2,	137.4,	-97.4,	-2.3,	16	13.7,	151.0,	122.8,	-89.3,	-7.1,
17	13.7,	143.2,	104.5,	-78.4,	-11.7,	18	13.7,	131.5,	83.5,	-65.2,	-16.2,
19	13.7,	143.4,	103.1,	-71.4,	-20.3,	20	13.7,	151.5,	121.4,	-76.8,	-23.5,
21	13.7,	155.0,	136.1,	-80.0,	-26.1,	22	13.7,	153.7,	146.7,	-80.7,	-27.8,
23	13.7,	147.8,	152.8,	-78.9,	-28.7,	24	13.7,	137.4,	154.2,	-74.8,	-28.7,
25	13.7,	122.8,	151.0,	-68.4,	-27.9,	26	13.7,	104.5,	143.2,	-59.9,	-26.2,
27	13.7,	83.5,	131.5,	-49.6,	-23.4,	28	13.7,	103.1,	143.4,	-51.4,	-19.8,
29	13.7,	121.4,	151.5,	-52.2,	-16.1,	30	13.7,	136.1,	155.0,	-51.4,	-11.9,
31	13.7,	146.7,	153.7,	-49.1,	-7.3,	32	13.7,	152.8,	147.8,	-45.2,	-2.5,
33	13.7,	154.2,	137.4,	-40.0,	2.3,	34	13.7,	151.0,	122.8,	-33.5,	7.1,
35	13.7,	143.2,	104.5,	-26.1,	11.7,	36	13.7,	131.5,	83.5,	-18.3,	16.2,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK183

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	143.4,	103.1,	-30.9,	15.7,	2	13.7,	151.5,	121.4,	-43.0,	19.2,
3	13.7,	155.0,	136.1,	-53.8,	22.0,	4	13.7,	153.7,	146.7,	-63.0,	24.2,
5	13.7,	147.8,	152.8,	-70.3,	25.7,	6	13.7,	137.4,	154.2,	-75.4,	26.4,
7	13.7,	122.8,	151.0,	-78.2,	26.3,	8	13.7,	104.5,	143.2,	-78.7,	25.4,
9	13.7,	83.5,	131.5,	-77.3,	23.4,	10	13.7,	103.1,	143.4,	-87.4,	20.6,
11	13.7,	121.4,	151.5,	-94.9,	17.7,	12	13.7,	136.1,	155.0,	-99.5,	14.2,
13	13.7,	146.7,	153.7,	-101.1,	10.3,	14	13.7,	152.8,	147.8,	-99.6,	6.1,
15	13.7,	154.2,	137.4,	-95.1,	1.7,	16	13.7,	151.0,	122.8,	-87.7,	-2.8,
17	13.7,	143.2,	104.5,	-77.6,	-7.1,	18	13.7,	131.5,	83.5,	-65.2,	-11.5,
19	13.7,	143.4,	103.1,	-72.2,	-15.7,	20	13.7,	151.5,	121.4,	-78.4,	-19.2,
21	13.7,	155.0,	136.1,	-82.3,	-22.0,	22	13.7,	153.7,	146.7,	-83.6,	-24.2,
23	13.7,	147.8,	152.8,	-82.5,	-25.7,	24	13.7,	137.4,	154.2,	-78.8,	-26.4,
25	13.7,	122.8,	151.0,	-72.7,	-26.3,	26	13.7,	104.5,	143.2,	-64.4,	-25.4,
27	13.7,	83.5,	131.5,	-54.2,	-23.4,	28	13.7,	103.1,	143.4,	-56.0,	-20.6,
29	13.7,	121.4,	151.5,	-56.6,	-17.7,	30	13.7,	136.1,	155.0,	-55.4,	-14.2,
31	13.7,	146.7,	153.7,	-52.6,	-10.3,	32	13.7,	152.8,	147.8,	-48.2,	-6.1,
33	13.7,	154.2,	137.4,	-42.3,	-1.7,	34	13.7,	151.0,	122.8,	-35.1,	2.8,
35	13.7,	143.2,	104.5,	-26.9,	7.1,	36	13.7,	131.5,	83.5,	-18.3,	11.5,

SOURCE ID: STCK184

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	143.4,	103.1,	-30.2,	11.5,	2	13.7,	151.5,	121.4,	-41.5,	15.1,
3	13.7,	155.0,	136.1,	-51.7,	18.3,	4	13.7,	153.7,	146.7,	-60.2,	20.9,
5	13.7,	147.8,	152.8,	-67.0,	22.9,	6	13.7,	137.4,	154.2,	-71.7,	24.2,
7	13.7,	122.8,	151.0,	-74.2,	24.8,	8	13.7,	104.5,	143.2,	-74.5,	24.6,
9	13.7,	83.5,	131.5,	-73.0,	23.4,	10	13.7,	103.1,	143.4,	-83.2,	21.4,
11	13.7,	121.4,	151.5,	-90.9,	19.2,	12	13.7,	136.1,	155.0,	-95.8,	16.4,
13	13.7,	146.7,	153.7,	-97.8,	13.1,	14	13.7,	152.8,	147.8,	-96.8,	9.4,
15	13.7,	154.2,	137.4,	-92.9,	5.4,	16	13.7,	151.0,	122.8,	-86.2,	1.3,
17	13.7,	143.2,	104.5,	-76.9,	-2.9,	18	13.7,	131.5,	83.5,	-65.2,	-7.2,
19	13.7,	143.4,	103.1,	-72.9,	-11.5,	20	13.7,	151.5,	121.4,	-79.9,	-15.1,
21	13.7,	155.0,	136.1,	-84.4,	-18.3,	22	13.7,	153.7,	146.7,	-86.4,	-20.9,
23	13.7,	147.8,	152.8,	-85.8,	-22.9,	24	13.7,	137.4,	154.2,	-82.5,	-24.2,
25	13.7,	122.8,	151.0,	-76.8,	-24.8,	26	13.7,	104.5,	143.2,	-68.7,	-24.6,
27	13.7,	83.5,	131.5,	-58.5,	-23.4,	28	13.7,	103.1,	143.4,	-60.2,	-21.4,
29	13.7,	121.4,	151.5,	-60.6,	-19.2,	30	13.7,	136.1,	155.0,	-59.2,	-16.4,
31	13.7,	146.7,	153.7,	-55.9,	-13.1,	32	13.7,	152.8,	147.8,	-51.0,	-9.4,
33	13.7,	154.2,	137.4,	-44.5,	-5.4,	34	13.7,	151.0,	122.8,	-36.6,	-1.3,
35	13.7,	143.2,	104.5,	-27.6,	2.9,	36	13.7,	131.5,	83.5,	-18.3,	7.2,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK185

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	143.4,	103.1,	-29.4,	7.2,	2	13.7,	151.5,	121.4,	-40.1,	11.1,
3	13.7,	155.0,	136.1,	-49.5,	14.6,	4	13.7,	153.7,	146.7,	-57.5,	17.7,
5	13.7,	147.8,	152.8,	-63.7,	20.2,	6	13.7,	137.4,	154.2,	-68.0,	22.1,
7	13.7,	122.8,	151.0,	-70.2,	23.3,	8	13.7,	104.5,	143.2,	-70.2,	23.9,
9	13.7,	83.5,	131.5,	-68.7,	23.4,	10	13.7,	103.1,	143.4,	-78.9,	22.1,
11	13.7,	121.4,	151.5,	-86.8,	20.6,	12	13.7,	136.1,	155.0,	-92.1,	18.5,
13	13.7,	146.7,	153.7,	-94.5,	15.9,	14	13.7,	152.8,	147.8,	-94.1,	12.7,
15	13.7,	154.2,	137.4,	-90.8,	9.2,	16	13.7,	151.0,	122.8,	-84.8,	5.3,
17	13.7,	143.2,	104.5,	-76.1,	1.3,	18	13.7,	131.5,	83.5,	-65.2,	-2.9,
19	13.7,	143.4,	103.1,	-73.7,	-7.2,	20	13.7,	151.5,	121.4,	-81.4,	-11.1,
21	13.7,	155.0,	136.1,	-86.6,	-14.6,	22	13.7,	153.7,	146.7,	-89.2,	-17.7,
23	13.7,	147.8,	152.8,	-89.1,	-20.2,	24	13.7,	137.4,	154.2,	-86.3,	-22.1,
25	13.7,	122.8,	151.0,	-80.8,	-23.3,	26	13.7,	104.5,	143.2,	-72.9,	-23.9,
27	13.7,	83.5,	131.5,	-62.8,	-23.4,	28	13.7,	103.1,	143.4,	-64.5,	-22.1,
29	13.7,	121.4,	151.5,	-64.7,	-20.6,	30	13.7,	136.1,	155.0,	-62.9,	-18.5,
31	13.7,	146.7,	153.7,	-59.2,	-15.9,	32	13.7,	152.8,	147.8,	-53.7,	-12.7,
33	13.7,	154.2,	137.4,	-46.6,	-9.2,	34	13.7,	151.0,	122.8,	-38.1,	-5.3,
35	13.7,	143.2,	104.5,	-28.4,	-1.3,	36	13.7,	131.5,	83.5,	-18.3,	2.9,

SOURCE ID: STCK186

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	143.4,	103.1,	-28.8,	3.9,	2	13.7,	151.5,	121.4,	-38.9,	7.9,
3	13.7,	155.0,	136.1,	-47.9,	11.7,	4	13.7,	153.7,	146.7,	-55.3,	15.1,
5	13.7,	147.8,	152.8,	-61.1,	18.0,	6	13.7,	137.4,	154.2,	-65.1,	20.4,
7	13.7,	122.8,	151.0,	-67.0,	22.2,	8	13.7,	104.5,	143.2,	-66.9,	23.3,
9	13.7,	83.5,	131.5,	-65.3,	23.4,	10	13.7,	103.1,	143.4,	-75.6,	22.7,
11	13.7,	121.4,	151.5,	-83.7,	21.8,	12	13.7,	136.1,	155.0,	-89.2,	20.2,
13	13.7,	146.7,	153.7,	-91.9,	18.0,	14	13.7,	152.8,	147.8,	-91.9,	15.3,
15	13.7,	154.2,	137.4,	-89.1,	12.1,	16	13.7,	151.0,	122.8,	-83.6,	8.5,
17	13.7,	143.2,	104.5,	-75.5,	4.6,	18	13.7,	131.5,	83.5,	-65.2,	0.4,
19	13.7,	143.4,	103.1,	-74.2,	-3.9,	20	13.7,	151.5,	121.4,	-82.5,	-7.9,
21	13.7,	155.0,	136.1,	-88.3,	-11.7,	22	13.7,	153.7,	146.7,	-91.3,	-15.1,
23	13.7,	147.8,	152.8,	-91.6,	-18.0,	24	13.7,	137.4,	154.2,	-89.2,	-20.4,
25	13.7,	122.8,	151.0,	-84.0,	-22.2,	26	13.7,	104.5,	143.2,	-76.2,	-23.3,
27	13.7,	83.5,	131.5,	-66.2,	-23.4,	28	13.7,	103.1,	143.4,	-67.8,	-22.7,
29	13.7,	121.4,	151.5,	-67.8,	-21.8,	30	13.7,	136.1,	155.0,	-65.8,	-20.2,
31	13.7,	146.7,	153.7,	-61.8,	-18.0,	32	13.7,	152.8,	147.8,	-55.9,	-15.3,
33	13.7,	154.2,	137.4,	-48.3,	-12.1,	34	13.7,	151.0,	122.8,	-39.2,	-8.5,
35	13.7,	143.2,	104.5,	-29.0,	-4.6,	36	13.7,	131.5,	83.5,	-18.3,	-0.4,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK187

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	143.4,	103.1,	-27.9,	-1.6,	2	13.7,	151.5,	121.4,	-37.0,	2.7,
3	13.7,	155.0,	136.1,	-45.1,	6.8,	4	13.7,	153.7,	146.7,	-51.7,	10.8,
5	13.7,	147.8,	152.8,	-56.8,	14.4,	6	13.7,	137.4,	154.2,	-60.2,	17.6,
7	13.7,	122.8,	151.0,	-61.8,	20.3,	8	13.7,	104.5,	143.2,	-61.4,	22.3,
9	13.7,	83.5,	131.5,	-59.7,	23.4,	10	13.7,	103.1,	143.4,	-70.1,	23.7,
11	13.7,	121.4,	151.5,	-78.4,	23.7,	12	13.7,	136.1,	155.0,	-84.3,	23.0,
13	13.7,	146.7,	153.7,	-87.7,	21.6,	14	13.7,	152.8,	147.8,	-88.3,	19.5,
15	13.7,	154.2,	137.4,	-86.3,	16.9,	16	13.7,	151.0,	122.8,	-81.7,	13.7,
17	13.7,	143.2,	104.5,	-74.6,	10.2,	18	13.7,	131.5,	83.5,	-65.2,	6.0,
19	13.7,	143.4,	103.1,	-75.2,	1.6,	20	13.7,	151.5,	121.4,	-84.4,	-2.7,
21	13.7,	155.0,	136.1,	-91.1,	-6.8,	22	13.7,	153.7,	146.7,	-94.9,	-10.8,
23	13.7,	147.8,	152.8,	-95.9,	-14.4,	24	13.7,	137.4,	154.2,	-94.0,	-17.6,
25	13.7,	122.8,	151.0,	-89.2,	-20.3,	26	13.7,	104.5,	143.2,	-81.7,	-22.3,
27	13.7,	83.5,	131.5,	-71.8,	-23.4,	28	13.7,	103.1,	143.4,	-73.3,	-23.7,
29	13.7,	121.4,	151.5,	-73.1,	-23.7,	30	13.7,	136.1,	155.0,	-70.6,	-23.0,
31	13.7,	146.7,	153.7,	-66.1,	-21.6,	32	13.7,	152.8,	147.8,	-59.5,	-19.5,
33	13.7,	154.2,	137.4,	-51.1,	-16.9,	34	13.7,	151.0,	122.8,	-41.1,	-13.7,
35	13.7,	143.2,	104.5,	-29.9,	-10.2,	36	13.7,	131.5,	83.5,	-18.3,	-6.0,

SOURCE ID: STCK188

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	143.4,	103.1,	-27.2,	-5.5,	2	13.7,	151.5,	121.4,	-35.7,	-1.1,
3	13.7,	155.0,	136.1,	-43.1,	3.4,	4	13.7,	153.7,	146.7,	-49.2,	7.7,
5	13.7,	147.8,	152.8,	-53.8,	11.9,	6	13.7,	137.4,	154.2,	-56.8,	15.6,
7	13.7,	122.8,	151.0,	-58.0,	18.9,	8	13.7,	104.5,	143.2,	-57.5,	21.6,
9	13.7,	83.5,	131.5,	-55.7,	23.4,	10	13.7,	103.1,	143.4,	-66.2,	24.4,
11	13.7,	121.4,	151.5,	-74.7,	25.1,	12	13.7,	136.1,	155.0,	-80.9,	25.0,
13	13.7,	146.7,	153.7,	-84.6,	24.2,	14	13.7,	152.8,	147.8,	-85.8,	22.6,
15	13.7,	154.2,	137.4,	-84.3,	20.4,	16	13.7,	151.0,	122.8,	-80.3,	17.5,
17	13.7,	143.2,	104.5,	-73.9,	14.1,	18	13.7,	131.5,	83.5,	-65.2,	10.0,
19	13.7,	143.4,	103.1,	-75.9,	5.5,	20	13.7,	151.5,	121.4,	-85.8,	1.1,
21	13.7,	155.0,	136.1,	-93.0,	-3.4,	22	13.7,	153.7,	146.7,	-97.5,	-7.7,
23	13.7,	147.8,	152.8,	-99.0,	-11.9,	24	13.7,	137.4,	154.2,	-97.5,	-15.6,
25	13.7,	122.8,	151.0,	-93.0,	-18.9,	26	13.7,	104.5,	143.2,	-85.6,	-21.6,
27	13.7,	83.5,	131.5,	-75.7,	-23.4,	28	13.7,	103.1,	143.4,	-77.2,	-24.4,
29	13.7,	121.4,	151.5,	-76.8,	-25.1,	30	13.7,	136.1,	155.0,	-74.1,	-25.0,
31	13.7,	146.7,	153.7,	-69.1,	-24.2,	32	13.7,	152.8,	147.8,	-62.0,	-22.6,
33	13.7,	154.2,	137.4,	-53.1,	-20.4,	34	13.7,	151.0,	122.8,	-42.5,	-17.5,
35	13.7,	143.2,	104.5,	-30.6,	-14.1,	36	13.7,	131.5,	83.5,	-18.3,	-10.0,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK189

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	143.4,	103.1,	-25.6,	-14.1,	2	13.7,	151.5,	121.4,	-32.7,	-9.3,
3	13.7,	155.0,	136.1,	-38.7,	-4.2,	4	13.7,	153.7,	146.7,	-43.5,	1.0,
5	13.7,	147.8,	152.8,	-47.1,	6.2,	6	13.7,	137.4,	154.2,	-49.2,	11.2,
7	13.7,	122.8,	151.0,	-49.8,	15.9,	8	13.7,	104.5,	143.2,	-48.9,	20.1,
9	13.7,	83.5,	131.5,	-47.0,	23.4,	10	13.7,	103.1,	143.4,	-57.6,	25.9,
11	13.7,	121.4,	151.5,	-66.4,	28.1,	12	13.7,	136.1,	155.0,	-73.3,	29.4,
13	13.7,	146.7,	153.7,	-77.9,	29.8,	14	13.7,	152.8,	147.8,	-80.1,	29.3,
15	13.7,	154.2,	137.4,	-79.9,	27.9,	16	13.7,	151.0,	122.8,	-77.3,	25.7,
17	13.7,	143.2,	104.5,	-72.4,	22.7,	18	13.7,	131.5,	83.5,	-65.2,	18.8,
19	13.7,	143.4,	103.1,	-77.4,	14.1,	20	13.7,	151.5,	121.4,	-88.8,	9.3,
21	13.7,	155.0,	136.1,	-97.4,	4.2,	22	13.7,	153.7,	146.7,	-103.1,	-1.0,
23	13.7,	147.8,	152.8,	-105.7,	-6.2,	24	13.7,	137.4,	154.2,	-105.0,	-11.2,
25	13.7,	122.8,	151.0,	-101.2,	-15.9,	26	13.7,	104.5,	143.2,	-94.3,	-20.1,
27	13.7,	83.5,	131.5,	-84.5,	-23.4,	28	13.7,	103.1,	143.4,	-85.8,	-25.9,
29	13.7,	121.4,	151.5,	-85.0,	-28.1,	30	13.7,	136.1,	155.0,	-81.7,	-29.4,
31	13.7,	146.7,	153.7,	-75.8,	-29.8,	32	13.7,	152.8,	147.8,	-67.7,	-29.3,
33	13.7,	154.2,	137.4,	-57.5,	-27.9,	34	13.7,	151.0,	122.8,	-45.5,	-25.7,
35	13.7,	143.2,	104.5,	-32.2,	-22.7,	36	13.7,	131.5,	83.5,	-18.3,	-18.8,

SOURCE ID: STCK190

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	143.4,	103.1,	-24.9,	-18.1,	2	13.7,	151.5,	121.4,	-31.3,	-13.1,
3	13.7,	155.0,	136.1,	-36.7,	-7.7,	4	13.7,	153.7,	146.7,	-41.0,	-2.0,
5	13.7,	147.8,	152.8,	-44.0,	3.7,	6	13.7,	137.4,	154.2,	-45.7,	9.2,
7	13.7,	122.8,	151.0,	-46.0,	14.6,	8	13.7,	104.5,	143.2,	-44.9,	19.4,
9	13.7,	83.5,	131.5,	-43.0,	23.4,	10	13.7,	103.1,	143.4,	-53.6,	26.6,
11	13.7,	121.4,	151.5,	-62.7,	29.4,	12	13.7,	136.1,	155.0,	-69.8,	31.4,
13	13.7,	146.7,	153.7,	-74.8,	32.4,	14	13.7,	152.8,	147.8,	-77.6,	32.4,
15	13.7,	154.2,	137.4,	-78.0,	31.4,	16	13.7,	151.0,	122.8,	-76.0,	29.5,
17	13.7,	143.2,	104.5,	-71.7,	26.6,	18	13.7,	131.5,	83.5,	-65.2,	22.8,
19	13.7,	143.4,	103.1,	-78.1,	18.1,	20	13.7,	151.5,	121.4,	-90.1,	13.1,
21	13.7,	155.0,	136.1,	-99.4,	7.7,	22	13.7,	153.7,	146.7,	-105.7,	2.0,
23	13.7,	147.8,	152.8,	-108.8,	-3.7,	24	13.7,	137.4,	154.2,	-108.5,	-9.2,
25	13.7,	122.8,	151.0,	-105.0,	-14.6,	26	13.7,	104.5,	143.2,	-98.2,	-19.4,
27	13.7,	83.5,	131.5,	-88.5,	-23.4,	28	13.7,	103.1,	143.4,	-89.8,	-26.6,
29	13.7,	121.4,	151.5,	-88.8,	-29.4,	30	13.7,	136.1,	155.0,	-85.1,	-31.4,
31	13.7,	146.7,	153.7,	-78.9,	-32.4,	32	13.7,	152.8,	147.8,	-70.2,	-32.4,
33	13.7,	154.2,	137.4,	-59.4,	-31.4,	34	13.7,	151.0,	122.8,	-46.9,	-29.5,
35	13.7,	143.2,	104.5,	-32.8,	-26.6,	36	13.7,	131.5,	83.5,	-18.3,	-22.8,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK191

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	143.4,	103.1,	-24.3,	-21.8,	2	13.7,	151.5,	121.4,	-30.0,	-16.7,
3	13.7,	155.0,	136.1,	-34.8,	-11.0,	4	13.7,	153.7,	146.7,	-38.5,	-5.0,
5	13.7,	147.8,	152.8,	-41.1,	1.2,	6	13.7,	137.4,	154.2,	-42.4,	7.3,
7	13.7,	122.8,	151.0,	-42.4,	13.2,	8	13.7,	104.5,	143.2,	-41.2,	18.7,
9	13.7,	83.5,	131.5,	-39.1,	23.4,	10	13.7,	103.1,	143.4,	-49.9,	27.2,
11	13.7,	121.4,	151.5,	-59.1,	30.7,	12	13.7,	136.1,	155.0,	-66.5,	33.3,
13	13.7,	146.7,	153.7,	-71.9,	34.8,	14	13.7,	152.8,	147.8,	-75.1,	35.3,
15	13.7,	154.2,	137.4,	-76.0,	34.7,	16	13.7,	151.0,	122.8,	-74.6,	33.1,
17	13.7,	143.2,	104.5,	-71.0,	30.4,	18	13.7,	131.5,	83.5,	-65.2,	26.6,
19	13.7,	143.4,	103.1,	-78.8,	21.8,	20	13.7,	151.5,	121.4,	-91.5,	16.7,
21	13.7,	155.0,	136.1,	-101.3,	11.0,	22	13.7,	153.7,	146.7,	-108.2,	5.0,
23	13.7,	147.8,	152.8,	-111.7,	-1.2,	24	13.7,	137.4,	154.2,	-111.8,	-7.3,
25	13.7,	122.8,	151.0,	-108.6,	-13.2,	26	13.7,	104.5,	143.2,	-102.0,	-18.7,
27	13.7,	83.5,	131.5,	-92.3,	-23.4,	28	13.7,	103.1,	143.4,	-93.5,	-27.2,
29	13.7,	121.4,	151.5,	-92.4,	-30.7,	30	13.7,	136.1,	155.0,	-88.5,	-33.3,
31	13.7,	146.7,	153.7,	-81.8,	-34.8,	32	13.7,	152.8,	147.8,	-72.7,	-35.3,
33	13.7,	154.2,	137.4,	-61.4,	-34.7,	34	13.7,	151.0,	122.8,	-48.2,	-33.1,
35	13.7,	143.2,	104.5,	-33.5,	-30.4,	36	13.7,	131.5,	83.5,	-18.3,	-26.6,

SOURCE ID: STCK192

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	143.4,	103.1,	-23.4,	-27.0,	2	13.7,	151.5,	121.4,	-28.2,	-21.6,
3	13.7,	155.0,	136.1,	-32.1,	-15.5,	4	13.7,	153.7,	146.7,	-35.1,	-9.0,
5	13.7,	147.8,	152.8,	-37.0,	-2.2,	6	13.7,	137.4,	154.2,	-37.8,	4.7,
7	13.7,	122.8,	151.0,	-37.5,	11.4,	8	13.7,	104.5,	143.2,	-36.0,	17.8,
9	13.7,	83.5,	131.5,	-33.9,	23.4,	10	13.7,	103.1,	143.4,	-44.7,	28.2,
11	13.7,	121.4,	151.5,	-54.1,	32.5,	12	13.7,	136.1,	155.0,	-61.9,	35.9,
13	13.7,	146.7,	153.7,	-67.9,	38.2,	14	13.7,	152.8,	147.8,	-71.7,	39.3,
15	13.7,	154.2,	137.4,	-73.4,	39.3,	16	13.7,	151.0,	122.8,	-72.9,	38.0,
17	13.7,	143.2,	104.5,	-70.1,	35.6,	18	13.7,	131.5,	83.5,	-65.2,	31.9,
19	13.7,	143.4,	103.1,	-79.7,	27.0,	20	13.7,	151.5,	121.4,	-93.2,	21.6,
21	13.7,	155.0,	136.1,	-104.0,	15.5,	22	13.7,	153.7,	146.7,	-111.5,	9.0,
23	13.7,	147.8,	152.8,	-115.7,	2.2,	24	13.7,	137.4,	154.2,	-116.4,	-4.7,
25	13.7,	122.8,	151.0,	-113.5,	-11.4,	26	13.7,	104.5,	143.2,	-107.2,	-17.8,
27	13.7,	83.5,	131.5,	-97.6,	-23.4,	28	13.7,	103.1,	143.4,	-98.7,	-28.2,
29	13.7,	121.4,	151.5,	-97.3,	-32.5,	30	13.7,	136.1,	155.0,	-93.0,	-35.9,
31	13.7,	146.7,	153.7,	-85.8,	-38.2,	32	13.7,	152.8,	147.8,	-76.1,	-39.3,
33	13.7,	154.2,	137.4,	-64.0,	-39.3,	34	13.7,	151.0,	122.8,	-50.0,	-38.0,
35	13.7,	143.2,	104.5,	-34.4,	-35.6,	36	13.7,	131.5,	83.5,	-18.3,	-31.9,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK193

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	71.0,	85.8,	-37.6,	13.6,	2	13.7,	75.0,	93.0,	-43.1,	17.2,
3	13.7,	76.8,	97.3,	-47.3,	20.3,	4	13.7,	79.0,	98.6,	-50.1,	21.4,
5	13.7,	83.3,	97.0,	-51.3,	19.6,	6	13.7,	85.1,	92.4,	-51.0,	17.1,
7	13.7,	84.3,	85.0,	-49.1,	14.2,	8	13.7,	80.9,	75.0,	-45.8,	10.8,
9	13.7,	76.1,	64.7,	-42.0,	7.1,	10	13.7,	85.8,	71.0,	-49.1,	5.3,
11	13.7,	93.0,	75.0,	-54.7,	3.4,	12	13.7,	97.3,	76.8,	-58.7,	1.3,
13	13.7,	98.6,	79.0,	-60.9,	-0.8,	14	13.7,	97.0,	83.3,	-61.2,	-2.8,
15	13.7,	92.4,	85.1,	-59.7,	-4.8,	16	13.7,	85.0,	84.3,	-56.3,	-6.6,
17	13.7,	75.0,	80.9,	-51.3,	-8.2,	18	13.7,	64.7,	76.1,	-45.1,	-9.6,
19	13.7,	71.0,	85.8,	-48.2,	-13.6,	20	13.7,	75.0,	93.0,	-49.9,	-17.2,
21	13.7,	76.8,	97.3,	-50.0,	-20.3,	22	13.7,	79.0,	98.6,	-48.6,	-21.4,
23	13.7,	83.3,	97.0,	-45.7,	-19.6,	24	13.7,	85.1,	92.4,	-41.4,	-17.1,
25	13.7,	84.3,	85.0,	-35.9,	-14.2,	26	13.7,	80.9,	75.0,	-29.3,	-10.8,
27	13.7,	76.1,	64.7,	-22.8,	-7.1,	28	13.7,	85.8,	71.0,	-21.9,	-5.3,
29	13.7,	93.0,	75.0,	-20.3,	-3.4,	30	13.7,	97.3,	76.8,	-18.1,	-1.3,
31	13.7,	98.6,	79.0,	-18.1,	0.8,	32	13.7,	97.0,	83.3,	-22.1,	2.8,
33	13.7,	92.4,	85.1,	-25.4,	4.8,	34	13.7,	85.0,	84.3,	-28.0,	6.6,
35	13.7,	75.0,	80.9,	-29.7,	8.2,	36	13.7,	64.7,	76.1,	-31.0,	9.6,

SOURCE ID: STCK194

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	71.0,	85.8,	-33.8,	14.3,	2	13.7,	75.0,	93.0,	-39.5,	18.5,
3	13.7,	76.8,	97.3,	-44.0,	22.2,	4	13.7,	79.0,	98.6,	-47.1,	23.9,
5	13.7,	83.3,	97.0,	-48.9,	22.5,	6	13.7,	85.1,	92.4,	-49.1,	20.4,
7	13.7,	84.3,	85.0,	-47.8,	17.8,	8	13.7,	80.9,	75.0,	-45.1,	14.6,
9	13.7,	76.1,	64.7,	-42.0,	10.9,	10	13.7,	85.8,	71.0,	-49.8,	9.1,
11	13.7,	93.0,	75.0,	-56.0,	7.0,	12	13.7,	97.3,	76.8,	-60.6,	4.6,
13	13.7,	98.6,	79.0,	-63.3,	2.2,	14	13.7,	97.0,	83.3,	-64.1,	-0.4,
15	13.7,	92.4,	85.1,	-63.0,	-2.9,	16	13.7,	85.0,	84.3,	-59.9,	-5.3,
17	13.7,	75.0,	80.9,	-55.0,	-7.6,	18	13.7,	64.7,	76.1,	-49.0,	-9.6,
19	13.7,	71.0,	85.8,	-52.0,	-14.3,	20	13.7,	75.0,	93.0,	-53.5,	-18.5,
21	13.7,	76.8,	97.3,	-53.3,	-22.2,	22	13.7,	79.0,	98.6,	-51.5,	-23.9,
23	13.7,	83.3,	97.0,	-48.1,	-22.5,	24	13.7,	85.1,	92.4,	-43.3,	-20.4,
25	13.7,	84.3,	85.0,	-37.2,	-17.8,	26	13.7,	80.9,	75.0,	-29.9,	-14.6,
27	13.7,	76.1,	64.7,	-22.8,	-10.9,	28	13.7,	85.8,	71.0,	-21.2,	-9.1,
29	13.7,	93.0,	75.0,	-19.0,	-7.0,	30	13.7,	97.3,	76.8,	-16.2,	-4.6,
31	13.7,	98.6,	79.0,	-15.6,	-2.2,	32	13.7,	97.0,	83.3,	-19.2,	0.4,
33	13.7,	92.4,	85.1,	-22.1,	2.9,	34	13.7,	85.0,	84.3,	-24.4,	5.3,
35	13.7,	75.0,	80.9,	-25.9,	7.6,	36	13.7,	64.7,	76.1,	-27.1,	9.6,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK195

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	71.0,	85.8,	-30.2,	14.9,	2	13.7,	75.0,	93.0,	-36.1,	19.8,
3	13.7,	76.8,	97.3,	-40.8,	24.0,	4	13.7,	79.0,	98.6,	-44.3,	26.2,
5	13.7,	83.3,	97.0,	-46.5,	25.3,	6	13.7,	85.1,	92.4,	-47.2,	23.6,
7	13.7,	84.3,	85.0,	-46.6,	21.2,	8	13.7,	80.9,	75.0,	-44.5,	18.2,
9	13.7,	76.1,	64.7,	-42.0,	14.6,	10	13.7,	85.8,	71.0,	-50.4,	12.7,
11	13.7,	93.0,	75.0,	-57.3,	10.4,	12	13.7,	97.3,	76.8,	-62.4,	7.8,
13	13.7,	98.6,	79.0,	-65.7,	5.0,	14	13.7,	97.0,	83.3,	-66.9,	2.0,
15	13.7,	92.4,	85.1,	-66.2,	-1.0,	16	13.7,	85.0,	84.3,	-63.4,	-4.1,
17	13.7,	75.0,	80.9,	-58.6,	-7.0,	18	13.7,	64.7,	76.1,	-52.6,	-9.6,
19	13.7,	71.0,	85.8,	-55.6,	-14.9,	20	13.7,	75.0,	93.0,	-56.9,	-19.8,
21	13.7,	76.8,	97.3,	-56.5,	-24.0,	22	13.7,	79.0,	98.6,	-54.3,	-26.2,
23	13.7,	83.3,	97.0,	-50.5,	-25.3,	24	13.7,	85.1,	92.4,	-45.2,	-23.6,
25	13.7,	84.3,	85.0,	-38.4,	-21.2,	26	13.7,	80.9,	75.0,	-30.6,	-18.2,
27	13.7,	76.1,	64.7,	-22.8,	-14.6,	28	13.7,	85.8,	71.0,	-20.6,	-12.7,
29	13.7,	93.0,	75.0,	-17.7,	-10.4,	30	13.7,	97.3,	76.8,	-14.4,	-7.8,
31	13.7,	98.6,	79.0,	-13.3,	-5.0,	32	13.7,	97.0,	83.3,	-16.3,	-2.0,
33	13.7,	92.4,	85.1,	-18.9,	1.0,	34	13.7,	85.0,	84.3,	-20.9,	4.1,
35	13.7,	75.0,	80.9,	-22.3,	7.0,	36	13.7,	64.7,	76.1,	-23.5,	9.6,

SOURCE ID: STCK196

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	71.0,	85.8,	-25.4,	15.8,	2	13.7,	75.0,	93.0,	-31.4,	21.5,
3	13.7,	76.8,	97.3,	-36.5,	26.5,	4	13.7,	79.0,	98.6,	-40.5,	29.4,
5	13.7,	83.3,	97.0,	-43.3,	29.1,	6	13.7,	85.1,	92.4,	-44.8,	27.9,
7	13.7,	84.3,	85.0,	-44.9,	25.9,	8	13.7,	80.9,	75.0,	-43.6,	23.1,
9	13.7,	76.1,	64.7,	-42.0,	19.5,	10	13.7,	85.8,	71.0,	-51.3,	17.6,
11	13.7,	93.0,	75.0,	-59.0,	15.1,	12	13.7,	97.3,	76.8,	-64.9,	12.1,
13	13.7,	98.6,	79.0,	-68.9,	8.8,	14	13.7,	97.0,	83.3,	-70.7,	5.2,
15	13.7,	92.4,	85.1,	-70.5,	1.4,	16	13.7,	85.0,	84.3,	-68.0,	-2.4,
17	13.7,	75.0,	80.9,	-63.5,	-6.1,	18	13.7,	64.7,	76.1,	-57.6,	-9.6,
19	13.7,	71.0,	85.8,	-60.5,	-15.8,	20	13.7,	75.0,	93.0,	-61.6,	-21.5,
21	13.7,	76.8,	97.3,	-60.8,	-26.5,	22	13.7,	79.0,	98.6,	-58.1,	-29.4,
23	13.7,	83.3,	97.0,	-53.7,	-29.1,	24	13.7,	85.1,	92.4,	-47.6,	-27.9,
25	13.7,	84.3,	85.0,	-40.1,	-25.9,	26	13.7,	80.9,	75.0,	-31.4,	-23.1,
27	13.7,	76.1,	64.7,	-22.8,	-19.5,	28	13.7,	85.8,	71.0,	-19.7,	-17.6,
29	13.7,	93.0,	75.0,	-16.1,	-15.1,	30	13.7,	97.3,	76.8,	-11.9,	-12.1,
31	13.7,	98.6,	79.0,	-10.1,	-8.8,	32	13.7,	97.0,	83.3,	-12.6,	-5.2,
33	13.7,	92.4,	85.1,	-14.6,	-1.4,	34	13.7,	85.0,	84.3,	-16.3,	2.4,
35	13.7,	75.0,	80.9,	-17.4,	6.1,	36	13.7,	64.7,	76.1,	-18.5,	9.6,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK197

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	71.0,	85.8,	-21.6,	16.4,	2	13.7,	75.0,	93.0,	-27.8,	22.8,
3	13.7,	76.8,	97.3,	-33.2,	28.4,	4	13.7,	79.0,	98.6,	-37.6,	31.9,
5	13.7,	83.3,	97.0,	-40.9,	32.0,	6	13.7,	85.1,	92.4,	-42.9,	31.2,
7	13.7,	84.3,	85.0,	-43.6,	29.5,	8	13.7,	80.9,	75.0,	-42.9,	26.8,
9	13.7,	76.1,	64.7,	-42.0,	23.4,	10	13.7,	85.8,	71.0,	-51.9,	21.3,
11	13.7,	93.0,	75.0,	-60.3,	18.7,	12	13.7,	97.3,	76.8,	-66.8,	15.4,
13	13.7,	98.6,	79.0,	-71.3,	11.7,	14	13.7,	97.0,	83.3,	-73.7,	7.6,
15	13.7,	92.4,	85.1,	-73.8,	3.3,	16	13.7,	85.0,	84.3,	-71.6,	-1.1,
17	13.7,	75.0,	80.9,	-67.3,	-5.4,	18	13.7,	64.7,	76.1,	-61.4,	-9.6,
19	13.7,	71.0,	85.8,	-64.3,	-16.4,	20	13.7,	75.0,	93.0,	-65.2,	-22.8,
21	13.7,	76.8,	97.3,	-64.1,	-28.4,	22	13.7,	79.0,	98.6,	-61.0,	-31.9,
23	13.7,	83.3,	97.0,	-56.1,	-32.0,	24	13.7,	85.1,	92.4,	-49.5,	-31.2,
25	13.7,	84.3,	85.0,	-41.4,	-29.5,	26	13.7,	80.9,	75.0,	-32.1,	-26.8,
27	13.7,	76.1,	64.7,	-22.8,	-23.4,	28	13.7,	85.8,	71.0,	-19.0,	-21.3,
29	13.7,	93.0,	75.0,	-14.7,	-18.7,	30	13.7,	97.3,	76.8,	-10.0,	-15.4,
31	13.7,	98.6,	79.0,	-7.6,	-11.7,	32	13.7,	97.0,	83.3,	-9.6,	-7.6,
33	13.7,	92.4,	85.1,	-11.3,	-3.3,	34	13.7,	85.0,	84.3,	-12.7,	1.1,
35	13.7,	75.0,	80.9,	-13.6,	5.4,	36	13.7,	64.7,	76.1,	-14.7,	9.6,

SOURCE ID: STCK198

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	71.0,	85.8,	-17.4,	17.2,	2	13.7,	75.0,	93.0,	-23.8,	24.2,
3	13.7,	76.8,	97.3,	-29.5,	30.6,	4	13.7,	79.0,	98.6,	-34.3,	34.6,
5	13.7,	83.3,	97.0,	-38.1,	35.3,	6	13.7,	85.1,	92.4,	-40.7,	34.9,
7	13.7,	84.3,	85.0,	-42.1,	33.5,	8	13.7,	80.9,	75.0,	-42.2,	31.1,
9	13.7,	76.1,	64.7,	-42.0,	27.7,	10	13.7,	85.8,	71.0,	-52.7,	25.6,
11	13.7,	93.0,	75.0,	-61.8,	22.7,	12	13.7,	97.3,	76.8,	-69.0,	19.2,
13	13.7,	98.6,	79.0,	-74.1,	15.0,	14	13.7,	97.0,	83.3,	-77.0,	10.4,
15	13.7,	92.4,	85.1,	-77.5,	5.5,	16	13.7,	85.0,	84.3,	-75.7,	0.4,
17	13.7,	75.0,	80.9,	-71.5,	-4.7,	18	13.7,	64.7,	76.1,	-65.7,	-9.6,
19	13.7,	71.0,	85.8,	-68.5,	-17.2,	20	13.7,	75.0,	93.0,	-69.2,	-24.2,
21	13.7,	76.8,	97.3,	-67.8,	-30.6,	22	13.7,	79.0,	98.6,	-64.3,	-34.6,
23	13.7,	83.3,	97.0,	-58.9,	-35.3,	24	13.7,	85.1,	92.4,	-51.7,	-34.9,
25	13.7,	84.3,	85.0,	-42.9,	-33.5,	26	13.7,	80.9,	75.0,	-32.8,	-31.1,
27	13.7,	76.1,	64.7,	-22.8,	-27.7,	28	13.7,	85.8,	71.0,	-18.3,	-25.6,
29	13.7,	93.0,	75.0,	-13.3,	-22.7,	30	13.7,	97.3,	76.8,	-7.8,	-19.2,
31	13.7,	98.6,	79.0,	-4.9,	-15.0,	32	13.7,	97.0,	83.3,	-6.3,	-10.4,
33	13.7,	92.4,	85.1,	-7.6,	-5.5,	34	13.7,	85.0,	84.3,	-8.6,	-0.4,
35	13.7,	75.0,	80.9,	-9.4,	4.7,	36	13.7,	64.7,	76.1,	-10.4,	9.6,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK199

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	98.6,	121.2,	-86.8,	16.0,	2	13.7,	113.2,	130.1,	-93.7,	11.3,
3	13.7,	124.3,	135.0,	-97.8,	6.3,	4	13.7,	131.7,	135.7,	-98.8,	1.1,
5	13.7,	135.0,	132.4,	-96.9,	-4.1,	6	13.7,	134.3,	125.0,	-92.0,	-9.2,
7	13.7,	129.4,	113.8,	-84.3,	-14.0,	8	13.7,	120.7,	99.2,	-74.1,	-18.4,
9	13.7,	109.2,	82.0,	-61.6,	-22.7,	10	13.7,	121.2,	98.6,	-65.3,	-26.2,
11	13.7,	130.1,	113.2,	-67.9,	-28.7,	12	13.7,	135.0,	124.3,	-68.5,	-30.3,
13	13.7,	98.6,	79.0,	-125.5,	46.8,	14	13.7,	97.0,	83.3,	-133.1,	32.8,
15	13.7,	92.4,	85.1,	-136.7,	17.8,	16	13.7,	85.0,	84.3,	-136.1,	2.3,
17	13.7,	75.0,	80.9,	-131.4,	-13.4,	18	13.7,	64.7,	76.1,	-123.1,	-28.6,
19	13.7,	98.6,	121.2,	-34.4,	-16.0,	20	13.7,	113.2,	130.1,	-36.4,	-11.3,
21	13.7,	124.3,	135.0,	-37.2,	-6.3,	22	13.7,	131.7,	135.7,	-36.9,	-1.1,
23	13.7,	135.0,	132.4,	-35.5,	4.1,	24	13.7,	134.3,	125.0,	-33.0,	9.2,
25	13.7,	129.4,	113.8,	-29.5,	14.0,	26	13.7,	120.7,	99.2,	-25.1,	18.4,
27	13.7,	109.2,	82.0,	-20.4,	22.7,	28	16.8,	276.5,	324.6,	-395.0,	104.9,
29	16.8,	315.2,	350.7,	-422.9,	62.8,	30	16.8,	344.4,	366.1,	-437.8,	18.8,
31	16.8,	363.1,	370.4,	-439.5,	-25.8,	32	16.8,	370.8,	363.5,	-427.8,	-69.5,
33	16.8,	367.2,	345.5,	-403.1,	-111.2,	34	16.8,	352.4,	317.0,	-366.2,	-149.5,
35	13.7,	99.2,	120.7,	-78.7,	24.5,	36	13.7,	82.0,	109.2,	-77.3,	20.6,

SOURCE ID: STCK200

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	98.6,	121.2,	-81.4,	16.9,	2	13.7,	113.2,	130.1,	-88.6,	13.2,
3	13.7,	124.3,	135.0,	-93.0,	9.1,	4	13.7,	131.7,	135.7,	-94.6,	4.7,
5	13.7,	135.0,	132.4,	-93.4,	0.1,	6	13.7,	134.3,	125.0,	-89.3,	-4.4,
7	13.7,	129.4,	113.8,	-82.5,	-8.8,	8	13.7,	120.7,	99.2,	-73.2,	-13.0,
9	13.7,	109.2,	82.0,	-61.6,	-17.2,	10	13.7,	121.2,	98.6,	-66.2,	-20.8,
11	13.7,	130.1,	113.2,	-69.8,	-23.5,	12	13.7,	135.0,	124.3,	-71.2,	-25.5,
13	13.7,	98.6,	79.0,	-129.0,	51.0,	14	13.7,	97.0,	83.3,	-137.3,	36.3,
15	13.7,	92.4,	85.1,	-141.4,	20.5,	16	13.7,	85.0,	84.3,	-141.2,	4.1,
17	13.7,	75.0,	80.9,	-136.8,	-12.4,	18	13.7,	64.7,	76.1,	-128.6,	-28.6,
19	13.7,	98.6,	121.2,	-39.8,	-16.9,	20	13.7,	113.2,	130.1,	-41.5,	-13.2,
21	13.7,	124.3,	135.0,	-41.9,	-9.1,	22	13.7,	131.7,	135.7,	-41.1,	-4.7,
23	13.7,	135.0,	132.4,	-39.0,	-0.1,	24	13.7,	134.3,	125.0,	-35.7,	4.4,
25	13.7,	129.4,	113.8,	-31.4,	8.8,	26	13.7,	120.7,	99.2,	-26.0,	13.0,
27	13.7,	109.2,	82.0,	-20.4,	17.2,	28	16.8,	276.5,	324.6,	-394.1,	99.5,
29	16.8,	315.2,	350.7,	-421.0,	57.6,	30	16.8,	344.4,	366.1,	-435.1,	14.1,
31	16.8,	363.1,	370.4,	-435.9,	-30.0,	32	16.8,	370.8,	363.5,	-423.6,	-73.1,
33	16.8,	367.2,	345.5,	-398.4,	-113.9,	34	16.8,	352.4,	317.0,	-361.0,	-151.4,
35	13.7,	99.2,	120.7,	-73.3,	23.6,	36	13.7,	82.0,	109.2,	-71.8,	20.6,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK201

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	98.6,	121.2,	-77.6,	17.6,	2	13.7,	113.2,	130.1,	-85.0,	14.5,
3	13.7,	124.3,	135.0,	-89.7,	11.0,	4	13.7,	131.7,	135.7,	-91.7,	7.1,
5	13.7,	135.0,	132.4,	-90.9,	3.1,	6	13.7,	134.3,	125.0,	-87.4,	-1.1,
7	13.7,	129.4,	113.8,	-81.2,	-5.2,	8	13.7,	120.7,	99.2,	-72.5,	-9.2,
9	13.7,	109.2,	82.0,	-61.6,	-13.4,	10	13.7,	121.2,	98.6,	-66.9,	-17.0,
11	13.7,	130.1,	113.2,	-71.1,	-19.9,	12	13.7,	135.0,	124.3,	-73.1,	-22.2,
13	13.7,	98.6,	79.0,	-131.5,	53.9,	14	13.7,	97.0,	83.3,	-140.2,	38.8,
15	13.7,	92.4,	85.1,	-144.8,	22.5,	16	13.7,	85.0,	84.3,	-144.8,	5.4,
17	13.7,	75.0,	80.9,	-140.5,	-11.7,	18	13.7,	64.7,	76.1,	-132.5,	-28.6,
19	13.7,	98.6,	121.2,	-43.6,	-17.6,	20	13.7,	113.2,	130.1,	-45.1,	-14.5,
21	13.7,	124.3,	135.0,	-45.3,	-11.0,	22	13.7,	131.7,	135.7,	-44.0,	-7.1,
23	13.7,	135.0,	132.4,	-41.5,	-3.1,	24	13.7,	134.3,	125.0,	-37.6,	1.1,
25	13.7,	129.4,	113.8,	-32.7,	5.2,	26	13.7,	120.7,	99.2,	-26.7,	9.2,
27	13.7,	109.2,	82.0,	-20.4,	13.4,	28	16.8,	276.5,	324.6,	-393.4,	95.7,
29	16.8,	315.2,	350.7,	-419.7,	54.0,	30	16.8,	344.4,	366.1,	-433.2,	10.7,
31	16.8,	363.1,	370.4,	-433.5,	-32.9,	32	16.8,	370.8,	363.5,	-420.7,	-75.5,
33	16.8,	367.2,	345.5,	-395.0,	-115.8,	34	16.8,	352.4,	317.0,	-357.4,	-152.7,
35	13.7,	99.2,	120.7,	-69.5,	22.9,	36	13.7,	82.0,	109.2,	-68.0,	20.6,

SOURCE ID: STCK202

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	98.6,	121.2,	-72.9,	18.4,	2	13.7,	113.2,	130.1,	-80.5,	16.1,
3	13.7,	124.3,	135.0,	-85.5,	13.4,	4	13.7,	131.7,	135.7,	-88.0,	10.2,
5	13.7,	135.0,	132.4,	-87.8,	6.7,	6	13.7,	134.3,	125.0,	-85.0,	3.1,
7	13.7,	129.4,	113.8,	-79.5,	-0.7,	8	13.7,	120.7,	99.2,	-71.7,	-4.5,
9	13.7,	109.2,	82.0,	-61.6,	-8.6,	10	13.7,	121.2,	98.6,	-67.7,	-12.3,
11	13.7,	130.1,	113.2,	-72.7,	-15.4,	12	13.7,	135.0,	124.3,	-75.5,	-18.1,
13	13.7,	135.7,	131.7,	-76.0,	-20.2,	14	13.7,	97.0,	83.3,	-143.9,	41.9,
15	13.7,	92.4,	85.1,	-148.9,	24.9,	16	13.7,	85.0,	84.3,	-149.3,	7.1,
17	13.7,	75.0,	80.9,	-145.2,	-10.9,	18	13.7,	64.7,	76.1,	-137.2,	-28.6,
19	13.7,	98.6,	121.2,	-48.3,	-18.4,	20	13.7,	113.2,	130.1,	-49.6,	-16.1,
21	13.7,	124.3,	135.0,	-49.4,	-13.4,	22	13.7,	131.7,	135.7,	-47.7,	-10.2,
23	13.7,	135.0,	132.4,	-44.5,	-6.7,	24	13.7,	134.3,	125.0,	-40.0,	-3.1,
25	13.7,	129.4,	113.8,	-34.3,	0.7,	26	13.7,	120.7,	99.2,	-27.5,	4.5,
27	13.7,	109.2,	82.0,	-20.4,	8.6,	28	16.8,	276.5,	324.6,	-392.6,	91.0,
29	16.8,	315.2,	350.7,	-418.0,	49.5,	30	16.8,	344.4,	366.1,	-430.8,	6.6,
31	16.8,	363.1,	370.4,	-430.4,	-36.6,	32	16.8,	370.8,	363.5,	-417.0,	-78.6,
33	16.8,	367.2,	345.5,	-390.9,	-118.2,	34	16.8,	352.4,	317.0,	-352.9,	-154.3,
35	13.7,	99.2,	120.7,	-64.8,	22.1,	36	13.7,	82.0,	109.2,	-63.2,	20.6,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK203

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	98.6,	121.2,	-69.5,	19.0,	2	13.7,	113.2,	130.1,	-77.2,	17.3,
3	13.7,	124.3,	135.0,	-82.5,	15.1,	4	13.7,	131.7,	135.7,	-85.3,	12.5,
5	13.7,	135.0,	132.4,	-85.6,	9.4,	6	13.7,	134.3,	125.0,	-83.2,	6.1,
7	13.7,	129.4,	113.8,	-78.3,	2.6,	8	13.7,	120.7,	99.2,	-71.1,	-1.0,
9	13.7,	109.2,	82.0,	-61.6,	-5.1,	10	13.7,	121.2,	98.6,	-68.3,	-8.9,
11	13.7,	130.1,	113.2,	-73.9,	-12.1,	12	13.7,	135.0,	124.3,	-77.3,	-15.0,
13	13.7,	135.7,	131.7,	-78.3,	-17.5,	14	13.7,	97.0,	83.3,	-146.6,	44.1,
15	13.7,	92.4,	85.1,	-151.9,	26.6,	16	16.8,	352.4,	317.0,	32.6,	155.5,
17	13.7,	75.0,	80.9,	-148.7,	-10.3,	18	13.7,	64.7,	76.1,	-140.8,	-28.6,
19	13.7,	98.6,	121.2,	-51.8,	-19.0,	20	13.7,	113.2,	130.1,	-52.9,	-17.3,
21	13.7,	124.3,	135.0,	-52.4,	-15.1,	22	13.7,	131.7,	135.7,	-50.4,	-12.5,
23	13.7,	135.0,	132.4,	-46.8,	-9.4,	24	13.7,	134.3,	125.0,	-41.8,	-6.1,
25	13.7,	129.4,	113.8,	-35.5,	-2.6,	26	13.7,	120.7,	99.2,	-28.1,	1.0,
27	13.7,	109.2,	82.0,	-20.4,	5.1,	28	16.8,	276.5,	324.6,	-392.0,	87.5,
29	16.8,	315.2,	350.7,	-416.8,	46.2,	30	16.8,	344.4,	366.1,	-429.0,	3.5,
31	16.8,	363.1,	370.4,	-428.2,	-39.2,	32	16.8,	370.8,	363.5,	-414.3,	-80.9,
33	16.8,	367.2,	345.5,	-387.9,	-120.0,	34	16.8,	352.4,	317.0,	-349.6,	-155.5,
35	13.7,	99.2,	120.7,	-61.3,	21.5,	36	13.7,	82.0,	109.2,	-59.7,	20.6,

SOURCE ID: STCK204

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	98.6,	121.2,	-66.3,	19.6,	2	13.7,	113.2,	130.1,	-74.2,	18.4,
3	13.7,	124.3,	135.0,	-79.7,	16.7,	4	13.7,	131.7,	135.7,	-82.9,	14.5,
5	13.7,	135.0,	132.4,	-83.5,	11.9,	6	13.7,	134.3,	125.0,	-81.6,	8.9,
7	13.7,	129.4,	113.8,	-77.2,	5.6,	8	13.7,	120.7,	99.2,	-70.5,	2.1,
9	13.7,	109.2,	82.0,	-61.6,	-1.9,	10	13.7,	121.2,	98.6,	-68.9,	-5.7,
11	13.7,	130.1,	113.2,	-75.0,	-9.1,	12	13.7,	135.0,	124.3,	-78.9,	-12.3,
13	13.7,	135.7,	131.7,	-80.3,	-15.0,	14	13.7,	132.4,	135.0,	-79.4,	-17.3,
15	13.7,	125.0,	134.3,	-76.0,	-19.1,	16	16.8,	352.4,	317.0,	29.6,	156.6,
17	13.7,	99.2,	120.7,	-62.5,	-20.9,	18	13.7,	82.0,	109.2,	-52.7,	-20.6,
19	13.7,	98.6,	121.2,	-54.9,	-19.6,	20	13.7,	113.2,	130.1,	-55.9,	-18.4,
21	13.7,	124.3,	135.0,	-55.2,	-16.7,	22	13.7,	131.7,	135.7,	-52.8,	-14.5,
23	13.7,	135.0,	132.4,	-48.8,	-11.9,	24	13.7,	134.3,	125.0,	-43.4,	-8.9,
25	13.7,	129.4,	113.8,	-36.6,	-5.6,	26	13.7,	120.7,	99.2,	-28.7,	-2.1,
27	16.8,	232.3,	291.6,	-357.2,	123.4,	28	16.8,	276.5,	324.6,	-391.4,	84.4,
29	16.8,	315.2,	350.7,	-415.7,	43.2,	30	16.8,	344.4,	366.1,	-427.4,	0.8,
31	16.8,	363.1,	370.4,	-426.1,	-41.7,	32	16.8,	370.8,	363.5,	-411.9,	-82.9,
33	16.8,	367.2,	345.5,	-385.1,	-121.6,	34	16.8,	352.4,	317.0,	-346.6,	-156.6,
35	13.7,	99.2,	120.7,	-58.2,	20.9,	36	13.7,	82.0,	109.2,	-56.5,	20.6,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK205

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	98.6,	121.2,	-58.0,	21.0,	2	13.7,	113.2,	130.1,	-66.2,	21.3,
3	13.7,	124.3,	135.0,	-72.4,	21.0,	4	13.7,	131.7,	135.7,	-76.4,	20.0,
5	13.7,	135.0,	132.4,	-78.1,	18.4,	6	13.7,	134.3,	125.0,	-77.4,	16.2,
7	13.7,	129.4,	113.8,	-74.3,	13.5,	8	13.7,	120.7,	99.2,	-69.0,	10.5,
9	13.7,	109.2,	82.0,	-61.6,	6.6,	10	13.7,	121.2,	98.6,	-70.3,	2.6,
11	13.7,	130.1,	113.2,	-77.9,	-1.2,	12	13.7,	135.0,	124.3,	-83.1,	-4.9,
13	13.7,	135.7,	131.7,	-85.8,	-8.6,	14	13.7,	132.4,	135.0,	-85.9,	-11.9,
15	16.8,	367.2,	345.5,	32.3,	125.8,	16	16.8,	352.4,	317.0,	21.7,	159.5,
17	13.7,	99.2,	120.7,	-70.8,	-19.4,	18	13.7,	82.0,	109.2,	-61.2,	-20.6,
19	13.7,	98.6,	121.2,	-63.2,	-21.0,	20	13.7,	113.2,	130.1,	-63.9,	-21.3,
21	13.7,	124.3,	135.0,	-62.5,	-21.0,	22	13.7,	131.7,	135.7,	-59.3,	-20.0,
23	13.7,	135.0,	132.4,	-54.3,	-18.4,	24	13.7,	134.3,	125.0,	-47.6,	-16.2,
25	13.7,	129.4,	113.8,	-39.5,	-13.5,	26	13.7,	120.7,	99.2,	-30.2,	-10.5,
27	16.8,	232.3,	291.6,	-357.2,	115.0,	28	16.8,	276.5,	324.6,	-389.9,	76.0,
29	16.8,	315.2,	350.7,	-412.8,	35.3,	30	16.8,	344.4,	366.1,	-423.2,	-6.5,
31	16.8,	363.1,	370.4,	-420.7,	-48.2,	32	16.8,	370.8,	363.5,	-405.4,	-88.3,
33	16.8,	367.2,	345.5,	-377.8,	-125.8,	34	16.8,	352.4,	317.0,	-338.7,	-159.5,
35	13.7,	99.2,	120.7,	-49.9,	19.4,	36	13.7,	82.0,	109.2,	-48.0,	20.6,

SOURCE ID: STCK206

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	98.6,	121.2,	-54.4,	21.7,	2	13.7,	113.2,	130.1,	-62.8,	22.6,
3	13.7,	124.3,	135.0,	-69.2,	22.8,	4	13.7,	131.7,	135.7,	-73.6,	22.3,
5	13.7,	135.0,	132.4,	-75.7,	21.2,	6	13.7,	134.3,	125.0,	-75.6,	19.4,
7	13.7,	129.4,	113.8,	-73.1,	17.0,	8	16.8,	278.9,	327.0,	25.4,	-146.2,
9	13.7,	109.2,	82.0,	-61.6,	10.2,	10	13.7,	121.2,	98.6,	-71.0,	6.2,
11	13.7,	130.1,	113.2,	-79.2,	2.3,	12	13.7,	135.0,	124.3,	-85.0,	-1.8,
13	13.7,	135.7,	131.7,	-88.1,	-5.7,	14	13.7,	132.4,	135.0,	-88.7,	-9.6,
15	16.8,	367.2,	345.5,	29.1,	127.7,	16	16.8,	352.4,	317.0,	18.2,	160.7,
17	13.7,	99.2,	120.7,	-74.4,	-18.8,	18	13.7,	82.0,	109.2,	-64.9,	-20.6,
19	13.7,	98.6,	121.2,	-66.8,	-21.7,	20	13.7,	113.2,	130.1,	-67.3,	-22.6,
21	13.7,	124.3,	135.0,	-65.7,	-22.8,	22	13.7,	131.7,	135.7,	-62.1,	-22.3,
23	13.7,	135.0,	132.4,	-56.6,	-21.2,	24	13.7,	134.3,	125.0,	-49.4,	-19.4,
25	13.7,	129.4,	113.8,	-40.7,	-17.0,	26	16.8,	278.9,	327.0,	-352.4,	146.2,
27	16.8,	232.3,	291.6,	-357.2,	111.3,	28	16.8,	276.5,	324.6,	-389.3,	72.4,
29	16.8,	315.2,	350.7,	-411.6,	31.8,	30	16.8,	344.4,	366.1,	-421.4,	-9.7,
31	16.8,	363.1,	370.4,	-418.3,	-51.0,	32	16.8,	370.8,	363.5,	-402.6,	-90.7,
33	16.8,	367.2,	345.5,	-374.6,	-127.7,	34	16.8,	352.4,	317.0,	-335.2,	-160.7,
35	13.7,	99.2,	120.7,	-46.3,	18.8,	36	13.7,	82.0,	109.2,	-44.4,	20.6,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK207

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	98.6,	121.2,	-50.1,	22.4,	2	13.7,	113.2,	130.1,	-58.7,	24.0,
3	13.7,	124.3,	135.0,	-65.5,	24.9,	4	13.7,	131.7,	135.7,	-70.3,	25.1,
5	13.7,	135.0,	132.4,	-73.0,	24.5,	6	13.7,	134.3,	125.0,	-73.4,	23.1,
7	13.7,	129.4,	113.8,	-71.6,	21.0,	8	16.8,	278.9,	327.0,	26.2,	-142.0,
9	13.7,	109.2,	82.0,	-61.6,	14.6,	10	13.7,	121.2,	98.6,	-71.7,	10.5,
11	13.7,	130.1,	113.2,	-80.6,	6.3,	12	13.7,	135.0,	124.3,	-87.1,	2.0,
13	13.7,	135.7,	131.7,	-90.9,	-2.4,	14	13.7,	132.4,	135.0,	-92.0,	-6.8,
15	16.8,	367.2,	345.5,	25.4,	129.8,	16	16.8,	352.4,	317.0,	14.2,	162.2,
17	13.7,	99.2,	120.7,	-78.6,	-18.1,	18	13.7,	82.0,	109.2,	-69.2,	-20.6,
19	13.7,	98.6,	121.2,	-71.1,	-22.4,	20	13.7,	113.2,	130.1,	-71.3,	-24.0,
21	13.7,	124.3,	135.0,	-69.4,	-24.9,	22	13.7,	131.7,	135.7,	-65.4,	-25.1,
23	13.7,	135.0,	132.4,	-59.4,	-24.5,	24	13.7,	134.3,	125.0,	-51.6,	-23.1,
25	13.7,	129.4,	113.8,	-42.2,	-21.0,	26	16.8,	278.9,	327.0,	-353.2,	142.0,
27	16.8,	232.3,	291.6,	-357.2,	107.0,	28	16.8,	276.5,	324.6,	-388.6,	68.2,
29	16.8,	315.2,	350.7,	-410.1,	27.8,	30	16.8,	344.4,	366.1,	-419.2,	-13.5,
31	16.8,	363.1,	370.4,	-415.5,	-54.3,	32	16.8,	370.8,	363.5,	-399.3,	-93.5,
33	16.8,	367.2,	345.5,	-370.9,	-129.8,	34	16.8,	352.4,	317.0,	-331.2,	-162.2,
35	13.7,	99.2,	120.7,	-42.0,	18.1,	36	13.7,	82.0,	109.2,	-40.1,	20.6,

SOURCE ID: STCK208

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	98.6,	121.2,	-46.1,	23.1,	2	13.7,	113.2,	130.1,	-54.8,	25.5,
3	13.7,	124.3,	135.0,	-61.9,	27.0,	4	13.7,	131.7,	135.7,	-67.1,	27.8,
5	13.7,	135.0,	132.4,	-70.3,	27.6,	6	13.7,	134.3,	125.0,	-71.3,	26.7,
7	13.7,	129.4,	113.8,	-70.2,	24.9,	8	16.8,	278.9,	327.0,	26.9,	-137.9,
9	13.7,	109.2,	82.0,	-61.6,	18.7,	10	13.7,	121.2,	98.6,	-72.5,	14.6,
11	13.7,	130.1,	113.2,	-82.1,	10.2,	12	13.7,	135.0,	124.3,	-89.2,	5.6,
13	13.7,	135.7,	131.7,	-93.6,	0.7,	14	16.8,	370.8,	363.5,	32.6,	96.1,
15	16.8,	367.2,	345.5,	21.8,	131.9,	16	16.8,	352.4,	317.0,	10.3,	163.6,
17	13.7,	99.2,	120.7,	-82.7,	-17.3,	18	13.7,	82.0,	109.2,	-73.3,	-20.6,
19	13.7,	98.6,	121.2,	-75.2,	-23.1,	20	13.7,	113.2,	130.1,	-75.2,	-25.5,
21	13.7,	124.3,	135.0,	-73.0,	-27.0,	22	13.7,	131.7,	135.7,	-68.6,	-27.8,
23	13.7,	135.0,	132.4,	-62.1,	-27.6,	24	13.7,	134.3,	125.0,	-53.7,	-26.7,
25	13.7,	129.4,	113.8,	-43.6,	-24.9,	26	16.8,	278.9,	327.0,	-353.9,	137.9,
27	16.8,	232.3,	291.6,	-357.2,	102.8,	28	16.8,	276.5,	324.6,	-387.8,	64.1,
29	16.8,	315.2,	350.7,	-408.7,	23.9,	30	16.8,	344.4,	366.1,	-417.1,	-17.0,
31	16.8,	363.1,	370.4,	-412.9,	-57.5,	32	16.8,	370.8,	363.5,	-396.1,	-96.1,
33	16.8,	367.2,	345.5,	-367.3,	-131.9,	34	16.8,	352.4,	317.0,	-327.3,	-163.6,
35	13.7,	99.2,	120.7,	-37.9,	17.3,	36	13.7,	82.0,	109.2,	-35.9,	20.6,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK209

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	98.6,	121.2,	-42.9,	23.7,	2	13.7,	113.2,	130.1,	-51.8,	26.6,
3	13.7,	124.3,	135.0,	-59.1,	28.6,	4	13.7,	131.7,	135.7,	-64.7,	29.8,
5	13.7,	135.0,	132.4,	-68.2,	30.1,	6	13.7,	134.3,	125.0,	-69.7,	29.4,
7	16.8,	317.0,	352.4,	-11.5,	-165.8,	8	16.8,	278.9,	327.0,	27.5,	-134.8,
9	13.7,	109.2,	82.0,	-61.6,	21.9,	10	13.7,	121.2,	98.6,	-73.0,	17.7,
11	13.7,	130.1,	113.2,	-83.1,	13.2,	12	13.7,	135.0,	124.3,	-90.8,	8.3,
13	13.7,	135.7,	131.7,	-95.6,	3.2,	14	16.8,	370.8,	363.5,	30.2,	98.2,
15	16.8,	367.2,	345.5,	19.0,	133.5,	16	16.8,	352.4,	317.0,	7.3,	164.7,
17	13.7,	99.2,	120.7,	-85.9,	-16.8,	18	13.7,	82.0,	109.2,	-76.5,	-20.6,
19	13.7,	98.6,	121.2,	-78.3,	-23.7,	20	13.7,	113.2,	130.1,	-78.2,	-26.6,
21	13.7,	124.3,	135.0,	-75.8,	-28.6,	22	13.7,	131.7,	135.7,	-71.0,	-29.8,
23	13.7,	135.0,	132.4,	-64.1,	-30.1,	24	13.7,	134.3,	125.0,	-55.3,	-29.4,
25	16.8,	317.0,	352.4,	-340.9,	165.8,	26	16.8,	278.9,	327.0,	-354.4,	134.8,
27	16.8,	232.3,	291.6,	-357.2,	99.7,	28	16.8,	276.5,	324.6,	-387.3,	61.0,
29	16.8,	315.2,	350.7,	-407.6,	20.9,	30	16.8,	344.4,	366.1,	-415.5,	-19.8,
31	16.8,	363.1,	370.4,	-410.8,	-59.9,	32	16.8,	370.8,	363.5,	-393.6,	-98.2,
33	16.8,	367.2,	345.5,	-364.5,	-133.5,	34	16.8,	352.4,	317.0,	-324.3,	-164.7,
35	13.7,	99.2,	120.7,	-34.8,	16.8,	36	13.7,	82.0,	109.2,	-32.7,	20.6,

SOURCE ID: STCK210

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	112.0,	192.2,	-145.9,	13.5,	2	13.7,	139.0,	197.7,	-150.1,	4.7,
3	16.8,	366.1,	344.4,	-64.0,	-181.4,	4	16.8,	370.4,	363.1,	-43.5,	-160.0,
5	16.8,	363.5,	370.8,	-21.7,	-133.7,	6	16.8,	345.5,	367.2,	0.9,	-103.3,
7	16.8,	317.0,	352.4,	23.3,	-69.8,	8	13.7,	193.8,	111.2,	-84.6,	-42.0,
9	13.7,	182.4,	82.0,	-62.7,	-46.5,	10	13.7,	192.2,	112.0,	-69.5,	-49.8,
11	16.8,	315.2,	350.7,	21.9,	75.0,	12	16.8,	344.4,	366.1,	-1.7,	108.2,
13	16.8,	363.1,	370.4,	-25.2,	138.1,	14	16.8,	370.8,	363.5,	-48.1,	163.7,
15	16.8,	367.2,	345.5,	-69.4,	184.5,	16	13.7,	138.0,	199.3,	-63.4,	-35.9,
17	13.7,	111.2,	193.8,	-54.8,	-29.0,	18	13.7,	82.0,	182.4,	-44.6,	-21.7,
19	13.7,	112.0,	192.2,	-46.3,	-13.5,	20	13.7,	139.0,	197.7,	-47.6,	-4.7,
21	16.8,	366.1,	344.4,	-280.4,	181.4,	22	16.8,	370.4,	363.1,	-319.6,	160.0,
23	16.8,	363.5,	370.8,	-349.1,	133.7,	24	16.8,	345.5,	367.2,	-368.1,	103.3,
25	16.8,	317.0,	352.4,	-375.8,	69.8,	26	16.8,	278.9,	327.0,	-372.1,	34.2,
27	16.8,	232.3,	291.6,	-357.1,	-2.4,	28	16.8,	276.5,	324.6,	-369.5,	-39.5,
29	16.8,	315.2,	350.7,	-372.6,	-75.0,	30	16.8,	344.4,	366.1,	-364.4,	-108.2,
31	16.8,	363.1,	370.4,	-345.2,	-138.1,	32	16.8,	370.8,	363.5,	-315.4,	-163.7,
33	16.8,	367.2,	345.5,	-276.1,	-184.5,	34	13.7,	138.0,	199.3,	-135.9,	35.9,
35	13.7,	111.2,	193.8,	-138.9,	29.0,	36	13.7,	82.0,	182.4,	-137.7,	21.7,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK211

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	112.0,	192.2,	-142.0,	14.2,	2	13.7,	139.0,	197.7,	-146.4,	6.0,
3	16.8,	366.1,	344.4,	-60.6,	-179.4,	4	16.8,	370.4,	363.1,	-40.5,	-157.4,
5	16.8,	363.5,	370.8,	-19.1,	-130.7,	6	16.8,	345.5,	367.2,	2.8,	-99.9,
7	16.8,	317.0,	352.4,	24.7,	-66.1,	8	13.7,	193.8,	111.2,	-83.9,	-38.1,
9	13.7,	182.4,	82.0,	-62.7,	-42.6,	10	13.7,	192.2,	112.0,	-70.2,	-45.9,
11	16.8,	315.2,	350.7,	20.6,	78.7,	12	16.8,	344.4,	366.1,	-3.6,	111.6,
13	16.8,	363.1,	370.4,	-27.8,	141.1,	14	16.8,	370.8,	363.5,	-51.1,	166.3,
15	16.8,	367.2,	345.5,	-72.8,	186.4,	16	13.7,	138.0,	199.3,	-67.1,	-34.5,
17	13.7,	111.2,	193.8,	-58.7,	-28.3,	18	13.7,	82.0,	182.4,	-48.6,	-21.7,
19	13.7,	112.0,	192.2,	-50.2,	-14.2,	20	13.7,	139.0,	197.7,	-51.3,	-6.0,
21	16.8,	366.1,	344.4,	-283.8,	179.4,	22	16.8,	370.4,	363.1,	-322.6,	157.4,
23	16.8,	363.5,	370.8,	-351.7,	130.7,	24	16.8,	345.5,	367.2,	-370.0,	99.9,
25	16.8,	317.0,	352.4,	-377.1,	66.1,	26	16.8,	278.9,	327.0,	-372.8,	30.4,
27	16.8,	232.3,	291.6,	-357.1,	-6.4,	28	16.8,	276.5,	324.6,	-368.8,	-43.4,
29	16.8,	315.2,	350.7,	-371.3,	-78.7,	30	16.8,	344.4,	366.1,	-362.5,	-111.6,
31	16.8,	363.1,	370.4,	-342.6,	-141.1,	32	16.8,	370.8,	363.5,	-312.4,	-166.3,
33	16.8,	367.2,	345.5,	-272.7,	-186.4,	34	13.7,	138.0,	199.3,	-132.2,	34.5,
35	13.7,	111.2,	193.8,	-135.0,	28.3,	36	13.7,	82.0,	182.4,	-133.8,	21.7,

SOURCE ID: STCK212

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	112.0,	192.2,	-136.6,	15.1,	2	13.7,	139.0,	197.7,	-141.2,	7.9,
3	16.8,	366.1,	344.4,	-55.9,	-176.7,	4	16.8,	370.4,	363.1,	-36.3,	-153.9,
5	16.8,	363.5,	370.8,	-15.6,	-126.5,	6	16.8,	345.5,	367.2,	5.5,	-95.2,
7	16.8,	317.0,	352.4,	26.6,	-61.0,	8	13.7,	193.8,	111.2,	-83.0,	-32.8,
9	13.7,	182.4,	82.0,	-62.7,	-37.2,	10	13.7,	192.2,	112.0,	-71.1,	-40.5,
11	16.8,	315.2,	350.7,	18.7,	83.8,	12	16.8,	344.4,	366.1,	-6.4,	116.3,
13	16.8,	363.1,	370.4,	-31.3,	145.2,	14	16.8,	370.8,	363.5,	-55.3,	169.8,
15	16.8,	367.2,	345.5,	-77.5,	189.2,	16	13.7,	138.0,	199.3,	-72.2,	-32.7,
17	13.7,	111.2,	193.8,	-64.1,	-27.3,	18	13.7,	82.0,	182.4,	-54.0,	-21.7,
19	13.7,	112.0,	192.2,	-55.6,	-15.1,	20	13.7,	139.0,	197.7,	-56.5,	-7.9,
21	16.8,	366.1,	344.4,	-288.5,	176.7,	22	16.8,	370.4,	363.1,	-326.8,	153.9,
23	16.8,	363.5,	370.8,	-355.2,	126.5,	24	16.8,	345.5,	367.2,	-372.8,	95.2,
25	16.8,	317.0,	352.4,	-379.0,	61.0,	26	16.8,	278.9,	327.0,	-373.7,	25.0,
27	16.8,	232.3,	291.6,	-357.1,	-11.8,	28	16.8,	276.5,	324.6,	-367.9,	-48.8,
29	16.8,	315.2,	350.7,	-369.4,	-83.8,	30	16.8,	344.4,	366.1,	-359.7,	-116.3,
31	16.8,	363.1,	370.4,	-339.1,	-145.2,	32	16.8,	370.8,	363.5,	-308.2,	-169.8,
33	16.8,	367.2,	345.5,	-267.9,	-189.2,	34	13.7,	138.0,	199.3,	-127.1,	32.7,
35	13.7,	111.2,	193.8,	-129.7,	27.3,	36	13.7,	82.0,	182.4,	-128.4,	21.7,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK213

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	112.0,	192.2,	-133.1,	15.8,	2	13.7,	139.0,	197.7,	-137.9,	9.1,
3	16.8,	366.1,	344.4,	-52.8,	-174.9,	4	16.8,	370.4,	363.1,	-33.6,	-151.6,
5	16.8,	363.5,	370.8,	-13.3,	-123.8,	6	16.8,	345.5,	367.2,	7.3,	-92.1,
7	16.8,	317.0,	352.4,	27.8,	-57.7,	8	13.7,	193.8,	111.2,	-82.3,	-29.3,
9	13.7,	182.4,	82.0,	-62.7,	-33.6,	10	13.7,	192.2,	112.0,	-71.7,	-37.0,
11	16.8,	315.2,	350.7,	17.5,	87.2,	12	16.8,	344.4,	366.1,	-8.2,	119.4,
13	16.8,	363.1,	370.4,	-33.6,	148.0,	14	16.8,	370.8,	363.5,	-58.0,	172.1,
15	16.8,	367.2,	345.5,	-80.6,	190.9,	16	13.7,	138.0,	199.3,	-75.6,	-31.5,
17	13.7,	111.2,	193.8,	-67.6,	-26.7,	18	13.7,	82.0,	182.4,	-57.6,	-21.7,
19	13.7,	112.0,	192.2,	-59.1,	-15.8,	20	13.7,	139.0,	197.7,	-59.8,	-9.1,
21	16.8,	366.1,	344.4,	-291.6,	174.9,	22	16.8,	370.4,	363.1,	-329.5,	151.6,
23	16.8,	363.5,	370.8,	-357.5,	123.8,	24	16.8,	345.5,	367.2,	-374.5,	92.1,
25	16.8,	317.0,	352.4,	-380.2,	57.7,	26	16.8,	278.9,	327.0,	-374.4,	21.5,
27	16.8,	232.3,	291.6,	-357.1,	-15.4,	28	16.8,	276.5,	324.6,	-367.2,	-52.3,
29	16.8,	315.2,	350.7,	-368.2,	-87.2,	30	16.8,	344.4,	366.1,	-357.9,	-119.4,
31	16.8,	363.1,	370.4,	-336.8,	-148.0,	32	16.8,	370.8,	363.5,	-305.5,	-172.1,
33	16.8,	367.2,	345.5,	-264.9,	-190.9,	34	13.7,	138.0,	199.3,	-123.7,	31.5,
35	13.7,	111.2,	193.8,	-126.2,	26.7,	36	13.7,	82.0,	182.4,	-124.8,	21.7,

SOURCE ID: STCK214

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	112.0,	192.2,	-125.4,	17.1,	2	13.7,	139.0,	197.7,	-130.5,	11.8,
3	16.8,	366.1,	344.4,	-46.0,	-171.0,	4	16.8,	370.4,	363.1,	-27.5,	-146.6,
5	16.8,	363.5,	370.8,	-8.3,	-117.7,	6	16.8,	345.5,	367.2,	11.3,	-85.3,
7	16.8,	317.0,	352.4,	30.5,	-50.3,	8	13.7,	193.8,	111.2,	-81.0,	-21.5,
9	13.7,	182.4,	82.0,	-62.7,	-25.7,	10	13.7,	192.2,	112.0,	-73.1,	-29.2,
11	16.8,	315.2,	350.7,	14.8,	94.6,	12	16.8,	344.4,	366.1,	-12.1,	126.2,
13	16.8,	363.1,	370.4,	-38.6,	154.0,	14	16.8,	370.8,	363.5,	-64.0,	177.1,
15	13.7,	160.7,	198.7,	-88.0,	-31.3,	16	13.7,	138.0,	199.3,	-83.0,	-28.8,
17	13.7,	111.2,	193.8,	-75.4,	-25.4,	18	13.7,	82.0,	182.4,	-65.5,	-21.7,
19	13.7,	112.0,	192.2,	-66.9,	-17.1,	20	13.7,	139.0,	197.7,	-67.2,	-11.8,
21	16.8,	366.1,	344.4,	-298.4,	171.0,	22	16.8,	370.4,	363.1,	-335.6,	146.6,
23	16.8,	363.5,	370.8,	-362.5,	117.7,	24	16.8,	345.5,	367.2,	-378.5,	85.3,
25	16.8,	317.0,	352.4,	-382.9,	50.3,	26	16.8,	278.9,	327.0,	-375.7,	13.7,
27	16.8,	232.3,	291.6,	-357.1,	-23.2,	28	16.8,	276.5,	324.6,	-365.9,	-60.1,
29	16.8,	315.2,	350.7,	-365.5,	-94.6,	30	16.8,	344.4,	366.1,	-354.0,	-126.2,
31	16.8,	363.1,	370.4,	-331.8,	-154.0,	32	16.8,	370.8,	363.5,	-299.4,	-177.1,
33	13.7,	160.7,	198.7,	-110.7,	31.3,	34	13.7,	138.0,	199.3,	-116.3,	28.8,
35	13.7,	111.2,	193.8,	-118.4,	25.4,	36	13.7,	82.0,	182.4,	-116.9,	21.7,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK215

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	112.0,	192.2,	-121.1,	17.9,	2	13.7,	139.0,	197.7,	-126.4,	13.3,
3	16.8,	366.1,	344.4,	-42.2,	-168.8,	4	16.8,	370.4,	363.1,	-24.2,	-143.8,
5	16.8,	363.5,	370.8,	-5.5,	-114.4,	6	16.8,	345.5,	367.2,	13.4,	-81.5,
7	16.8,	317.0,	352.4,	31.9,	-46.2,	8	13.7,	193.8,	111.2,	-80.2,	-17.3,
9	13.7,	182.4,	82.0,	-62.7,	-21.4,	10	13.7,	192.2,	112.0,	-73.9,	-25.0,
11	16.8,	315.2,	350.7,	13.4,	98.6,	12	16.8,	344.4,	366.1,	-14.3,	130.0,
13	16.8,	363.1,	370.4,	-41.4,	157.3,	14	16.8,	370.8,	363.5,	-67.3,	179.9,
15	13.7,	160.7,	198.7,	-91.8,	-29.2,	16	13.7,	138.0,	199.3,	-87.0,	-27.3,
17	13.7,	111.2,	193.8,	-79.6,	-24.6,	18	13.7,	82.0,	182.4,	-69.8,	-21.7,
19	13.7,	112.0,	192.2,	-71.1,	-17.9,	20	13.7,	139.0,	197.7,	-71.3,	-13.3,
21	16.8,	366.1,	344.4,	-302.2,	168.8,	22	16.8,	370.4,	363.1,	-338.9,	143.8,
23	16.8,	363.5,	370.8,	-365.3,	114.4,	24	16.8,	345.5,	367.2,	-380.6,	81.5,
25	16.8,	317.0,	352.4,	-384.4,	46.2,	26	16.8,	278.9,	327.0,	-376.5,	9.5,
27	16.8,	232.3,	291.6,	-357.1,	-27.6,	28	16.8,	276.5,	324.6,	-365.1,	-64.3,
29	16.8,	315.2,	350.7,	-364.0,	-98.6,	30	16.8,	344.4,	366.1,	-351.9,	-130.0,
31	16.8,	363.1,	370.4,	-329.0,	-157.3,	32	16.8,	370.8,	363.5,	-296.1,	-179.9,
33	13.7,	160.7,	198.7,	-106.9,	29.2,	34	13.7,	138.0,	199.3,	-112.2,	27.3,
35	13.7,	111.2,	193.8,	-114.1,	24.6,	36	13.7,	82.0,	182.4,	-112.6,	21.7,

SOURCE ID: STCK216

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	112.0,	192.2,	-117.4,	18.5,	2	13.7,	139.0,	197.7,	-122.9,	14.6,
3	16.8,	366.1,	344.4,	-39.0,	-166.9,	4	16.8,	370.4,	363.1,	-21.4,	-141.4,
5	16.8,	363.5,	370.8,	-3.1,	-111.5,	6	16.8,	345.5,	367.2,	15.3,	-78.3,
7	16.8,	317.0,	352.4,	33.2,	-42.7,	8	13.7,	193.8,	111.2,	-79.6,	-13.6,
9	13.7,	182.4,	82.0,	-62.7,	-17.6,	10	13.7,	192.2,	112.0,	-74.5,	-21.3,
11	16.8,	315.2,	350.7,	12.1,	102.2,	12	16.8,	344.4,	366.1,	-16.1,	133.2,
13	16.8,	363.1,	370.4,	-43.8,	160.2,	14	16.8,	370.8,	363.5,	-70.2,	182.3,
15	13.7,	160.7,	198.7,	-95.0,	-27.3,	16	13.7,	138.0,	199.3,	-90.6,	-26.0,
17	13.7,	111.2,	193.8,	-83.3,	-23.9,	18	13.7,	82.0,	182.4,	-73.5,	-21.7,
19	13.7,	112.0,	192.2,	-74.8,	-18.5,	20	13.7,	139.0,	197.7,	-74.8,	-14.6,
21	16.8,	366.1,	344.4,	-305.4,	166.9,	22	16.8,	370.4,	363.1,	-341.8,	141.4,
23	16.8,	363.5,	370.8,	-367.7,	111.5,	24	16.8,	345.5,	367.2,	-382.5,	78.3,
25	16.8,	317.0,	352.4,	-385.7,	42.7,	26	16.8,	278.9,	327.0,	-377.1,	5.8,
27	16.8,	232.3,	291.6,	-357.1,	-31.3,	28	16.8,	276.5,	324.6,	-364.5,	-68.0,
29	16.8,	315.2,	350.7,	-362.7,	-102.2,	30	16.8,	344.4,	366.1,	-350.0,	-133.2,
31	16.8,	363.1,	370.4,	-326.6,	-160.2,	32	16.8,	370.8,	363.5,	-293.3,	-182.3,
33	13.7,	160.7,	198.7,	-103.7,	27.3,	34	13.7,	138.0,	199.3,	-108.7,	26.0,
35	13.7,	111.2,	193.8,	-110.5,	23.9,	36	13.7,	82.0,	182.4,	-108.8,	21.7,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK217

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	112.0,	192.2,	-112.8,	19.3,	2	13.7,	139.0,	197.7,	-118.5,	16.2,
3	16.8,	366.1,	344.4,	-34.9,	-164.6,	4	16.8,	370.4,	363.1,	-17.8,	-138.4,
5	16.8,	363.5,	370.8,	-0.1,	-107.9,	6	16.8,	345.5,	367.2,	17.7,	-74.2,
7	13.7,	199.3,	138.0,	-93.4,	-4.7,	8	13.7,	193.8,	111.2,	-78.8,	-9.0,
9	13.7,	182.4,	82.0,	-62.7,	-13.0,	10	13.7,	192.2,	112.0,	-75.3,	-16.7,
11	16.8,	315.2,	350.7,	10.5,	106.6,	12	16.8,	344.4,	366.1,	-18.5,	137.3,
13	16.8,	363.1,	370.4,	-46.8,	163.8,	14	16.8,	370.8,	363.5,	-73.8,	185.3,
15	13.7,	160.7,	198.7,	-99.1,	-24.9,	16	13.7,	138.0,	199.3,	-95.0,	-24.4,
17	13.7,	111.2,	193.8,	-87.9,	-23.1,	18	13.7,	82.0,	182.4,	-78.2,	-21.7,
19	13.7,	112.0,	192.2,	-79.4,	-19.3,	20	13.7,	139.0,	197.7,	-79.2,	-16.2,
21	16.8,	366.1,	344.4,	-309.5,	164.6,	22	16.8,	370.4,	363.1,	-345.4,	138.4,
23	16.8,	363.5,	370.8,	-370.7,	107.9,	24	16.8,	345.5,	367.2,	-384.9,	74.2,
25	16.8,	317.0,	352.4,	-387.3,	38.3,	26	16.8,	278.9,	327.0,	-377.9,	1.2,
27	16.8,	232.3,	291.6,	-357.1,	-36.0,	28	16.8,	276.5,	324.6,	-363.7,	-72.6,
29	16.8,	315.2,	350.7,	-361.1,	-106.6,	30	16.8,	344.4,	366.1,	-347.6,	-137.3,
31	16.8,	363.1,	370.4,	-323.6,	-163.8,	32	16.8,	370.8,	363.5,	-289.7,	-185.3,
33	13.7,	160.7,	198.7,	-99.6,	24.9,	34	13.7,	138.0,	199.3,	-104.3,	24.4,
35	13.7,	111.2,	193.8,	-105.8,	23.1,	36	13.7,	82.0,	182.4,	-104.1,	21.7,

SOURCE ID: STCK218

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	112.0,	192.2,	-109.6,	19.9,	2	13.7,	139.0,	197.7,	-115.5,	17.3,
3	16.8,	366.1,	344.4,	-32.2,	-163.0,	4	16.8,	370.4,	363.1,	-15.3,	-136.3,
5	16.8,	363.5,	370.8,	2.0,	-105.5,	6	16.8,	345.5,	367.2,	19.2,	-71.5,
7	13.7,	199.3,	138.0,	-92.3,	-1.7,	8	13.7,	193.8,	111.2,	-78.2,	-5.8,
9	13.7,	182.4,	82.0,	-62.7,	-9.8,	10	13.7,	192.2,	112.0,	-75.9,	-13.5,
11	16.8,	315.2,	350.7,	9.4,	109.6,	12	16.8,	344.4,	366.1,	-20.1,	140.0,
13	16.8,	363.1,	370.4,	-48.9,	166.2,	14	16.8,	370.8,	363.5,	-76.2,	187.4,
15	13.7,	160.7,	198.7,	-101.9,	-23.3,	16	13.7,	138.0,	199.3,	-98.0,	-23.3,
17	13.7,	111.2,	193.8,	-91.1,	-22.6,	18	13.7,	82.0,	182.4,	-81.4,	-21.7,
19	13.7,	112.0,	192.2,	-82.6,	-19.9,	20	13.7,	139.0,	197.7,	-82.2,	-17.3,
21	16.8,	366.1,	344.4,	-312.2,	163.0,	22	16.8,	370.4,	363.1,	-347.8,	136.3,
23	16.8,	363.5,	370.8,	-372.8,	105.5,	24	16.8,	345.5,	367.2,	-386.4,	71.5,
25	16.8,	317.0,	352.4,	-388.4,	35.3,	26	16.8,	278.9,	327.0,	-378.5,	-2.0,
27	16.8,	232.3,	291.6,	-357.1,	-39.2,	28	16.8,	276.5,	324.6,	-363.1,	-75.8,
29	16.8,	315.2,	350.7,	-360.0,	-109.6,	30	16.8,	344.4,	366.1,	-346.0,	-140.0,
31	16.8,	363.1,	370.4,	-321.5,	-166.2,	32	16.8,	370.8,	363.5,	-287.2,	-187.4,
33	13.7,	160.7,	198.7,	-96.9,	23.3,	34	13.7,	138.0,	199.3,	-101.3,	23.3,
35	13.7,	111.2,	193.8,	-102.7,	22.6,	36	13.7,	82.0,	182.4,	-101.0,	21.7,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK219

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	112.0,	192.2,	-104.8,	20.7,	2	16.8,	350.7,	315.2,	-43.4,	-183.0,
3	16.8,	366.1,	344.4,	-27.9,	-160.5,	4	16.8,	370.4,	363.1,	-11.6,	-133.2,
5	16.8,	363.5,	370.8,	5.1,	-101.7,	6	16.8,	345.5,	367.2,	21.7,	-67.2,
7	13.7,	199.3,	138.0,	-90.7,	2.9,	8	13.7,	193.8,	111.2,	-77.4,	-1.0,
9	13.7,	182.4,	82.0,	-62.7,	-4.9,	10	13.7,	192.2,	112.0,	-76.7,	-8.7,
11	16.8,	315.2,	350.7,	7.7,	114.2,	12	16.8,	344.4,	366.1,	-22.5,	144.3,
13	16.8,	363.1,	370.4,	-52.0,	170.0,	14	16.8,	370.8,	363.5,	-80.0,	190.5,
15	13.7,	160.7,	198.7,	-106.1,	-20.9,	16	13.7,	138.0,	199.3,	-102.6,	-21.6,
17	13.7,	111.2,	193.8,	-95.9,	-21.7,	18	13.7,	82.0,	182.4,	-86.3,	-21.7,
19	13.7,	112.0,	192.2,	-87.4,	-20.7,	20	16.8,	350.7,	315.2,	-271.8,	183.0,
21	16.8,	366.1,	344.4,	-316.5,	160.5,	22	16.8,	370.4,	363.1,	-351.5,	133.2,
23	16.8,	363.5,	370.8,	-375.9,	101.7,	24	16.8,	345.5,	367.2,	-388.9,	67.2,
25	16.8,	317.0,	352.4,	-390.1,	30.7,	26	16.8,	278.9,	327.0,	-379.4,	-6.8,
27	16.8,	232.3,	291.6,	-357.1,	-44.1,	28	16.8,	276.5,	324.6,	-362.3,	-80.6,
29	16.8,	315.2,	350.7,	-358.4,	-114.2,	30	16.8,	344.4,	366.1,	-343.6,	-144.3,
31	16.8,	363.1,	370.4,	-318.4,	-170.0,	32	16.8,	370.8,	363.5,	-283.5,	-190.5,
33	13.7,	160.7,	198.7,	-92.6,	20.9,	34	13.7,	138.0,	199.3,	-96.7,	21.6,
35	13.7,	111.2,	193.8,	-97.9,	21.7,	36	13.7,	82.0,	182.4,	-96.1,	21.7,

SOURCE ID: STCK220

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	112.0,	192.2,	-100.8,	21.4,	2	16.8,	350.7,	315.2,	-39.6,	-181.6,
3	16.8,	366.1,	344.4,	-24.4,	-158.5,	4	16.8,	370.4,	363.1,	-8.4,	-130.5,
5	16.8,	363.5,	370.8,	7.8,	-98.6,	6	16.8,	345.5,	367.2,	23.8,	-63.7,
7	13.7,	199.3,	138.0,	-89.3,	6.8,	8	13.7,	193.8,	111.2,	-76.6,	3.1,
9	13.7,	182.4,	82.0,	-62.7,	-0.8,	10	13.7,	192.2,	112.0,	-77.4,	-4.7,
11	16.8,	315.2,	350.7,	6.3,	118.0,	12	16.8,	344.4,	366.1,	-24.6,	147.8,
13	16.8,	363.1,	370.4,	-54.7,	173.1,	14	16.8,	370.8,	363.5,	-83.1,	193.2,
15	13.7,	160.7,	198.7,	-109.7,	-18.8,	16	13.7,	138.0,	199.3,	-106.4,	-20.2,
17	13.7,	111.2,	193.8,	-100.0,	-21.0,	18	13.7,	82.0,	182.4,	-90.4,	-21.7,
19	13.7,	112.0,	192.2,	-91.5,	-21.4,	20	16.8,	350.7,	315.2,	-275.7,	181.6,
21	16.8,	366.1,	344.4,	-320.0,	158.5,	22	16.8,	370.4,	363.1,	-354.7,	130.5,
23	16.8,	363.5,	370.8,	-378.6,	98.6,	24	16.8,	345.5,	367.2,	-391.0,	63.7,
25	16.8,	317.0,	352.4,	-391.5,	26.8,	26	16.8,	278.9,	327.0,	-380.1,	-10.9,
27	16.8,	232.3,	291.6,	-357.1,	-48.2,	28	16.8,	276.5,	324.6,	-361.5,	-84.6,
29	16.8,	315.2,	350.7,	-357.0,	-118.0,	30	16.8,	344.4,	366.1,	-341.5,	-147.8,
31	16.8,	363.1,	370.4,	-315.7,	-173.1,	32	16.8,	370.8,	363.5,	-280.3,	-193.2,
33	13.7,	160.7,	198.7,	-89.0,	18.8,	34	13.7,	138.0,	199.3,	-92.8,	20.2,
35	13.7,	111.2,	193.8,	-93.8,	21.0,	36	13.7,	82.0,	182.4,	-91.9,	21.7,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK221

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	112.0,	192.2,	-93.6,	22.7,	2	16.8,	350.7,	315.2,	-32.7,	-179.1,
3	16.8,	366.1,	344.4,	-18.0,	-154.8,	4	16.8,	370.4,	363.1,	-2.8,	-125.8,
5	16.8,	363.5,	370.8,	12.5,	-93.0,	6	16.8,	345.5,	367.2,	27.4,	-57.3,
7	13.7,	199.3,	138.0,	-86.8,	13.7,	8	13.7,	193.8,	111.2,	-75.4,	10.3,
9	13.7,	182.4,	82.0,	-62.7,	6.6,	10	13.7,	192.2,	112.0,	-78.7,	2.6,
11	16.8,	315.2,	350.7,	3.8,	124.9,	12	16.8,	344.4,	366.1,	-28.2,	154.2,
13	16.8,	363.1,	370.4,	-59.4,	178.8,	14	13.7,	178.4,	192.1,	-115.2,	-12.2,
15	13.7,	160.7,	198.7,	-116.0,	-15.2,	16	13.7,	138.0,	199.3,	-113.3,	-17.7,
17	13.7,	111.2,	193.8,	-107.2,	-19.8,	18	13.7,	82.0,	182.4,	-97.8,	-21.7,
19	13.7,	112.0,	192.2,	-98.7,	-22.7,	20	16.8,	350.7,	315.2,	-282.5,	179.1,
21	16.8,	366.1,	344.4,	-326.4,	154.8,	22	16.8,	370.4,	363.1,	-360.3,	125.8,
23	16.8,	363.5,	370.8,	-383.3,	93.0,	24	16.8,	345.5,	367.2,	-394.6,	57.3,
25	16.8,	317.0,	352.4,	-394.0,	19.9,	26	16.8,	278.9,	327.0,	-381.3,	-18.1,
27	16.8,	232.3,	291.6,	-357.1,	-55.5,	28	16.8,	276.5,	324.6,	-360.3,	-91.9,
29	16.8,	315.2,	350.7,	-354.4,	-124.9,	30	16.8,	344.4,	366.1,	-337.9,	-154.2,
31	16.8,	363.1,	370.4,	-311.0,	-178.8,	32	13.7,	178.4,	192.1,	-76.9,	12.2,
33	13.7,	160.7,	198.7,	-82.7,	15.2,	34	13.7,	138.0,	199.3,	-86.0,	17.7,
35	13.7,	111.2,	193.8,	-86.6,	19.8,	36	13.7,	82.0,	182.4,	-84.6,	21.7,

SOURCE ID: STCK222

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	112.0,	192.2,	-89.1,	23.5,	2	16.8,	350.7,	315.2,	-28.5,	-177.6,
3	16.8,	366.1,	344.4,	-14.1,	-152.6,	4	16.8,	370.4,	363.1,	0.6,	-122.9,
5	16.8,	363.5,	370.8,	15.4,	-89.5,	6	16.8,	345.5,	367.2,	29.7,	-53.4,
7	13.7,	199.3,	138.0,	-85.2,	17.9,	8	13.7,	193.8,	111.2,	-74.6,	14.7,
9	13.7,	182.4,	82.0,	-62.7,	11.1,	10	13.7,	192.2,	112.0,	-79.5,	7.0,
11	16.8,	315.2,	350.7,	2.2,	129.2,	12	16.8,	344.4,	366.1,	-30.5,	158.1,
13	16.8,	363.1,	370.4,	-62.3,	182.2,	14	13.7,	178.4,	192.1,	-118.6,	-9.3,
15	13.7,	160.7,	198.7,	-119.9,	-12.9,	16	13.7,	138.0,	199.3,	-117.5,	-16.2,
17	13.7,	111.2,	193.8,	-111.6,	-19.0,	18	13.7,	82.0,	182.4,	-102.3,	-21.7,
19	13.7,	112.0,	192.2,	-103.1,	-23.5,	20	16.8,	350.7,	315.2,	-286.8,	177.6,
21	16.8,	366.1,	344.4,	-330.3,	152.6,	22	16.8,	370.4,	363.1,	-363.8,	122.9,
23	16.8,	363.5,	370.8,	-386.2,	89.5,	24	16.8,	345.5,	367.2,	-396.9,	53.4,
25	16.8,	317.0,	352.4,	-395.5,	15.7,	26	16.8,	278.9,	327.0,	-382.1,	-22.5,
27	16.8,	232.3,	291.6,	-357.1,	-60.0,	28	16.8,	276.5,	324.6,	-359.5,	-96.3,
29	16.8,	315.2,	350.7,	-352.9,	-129.2,	30	16.8,	344.4,	366.1,	-335.6,	-158.1,
31	16.8,	363.1,	370.4,	-308.1,	-182.2,	32	13.7,	178.4,	192.1,	-73.5,	9.3,
33	13.7,	160.7,	198.7,	-78.8,	12.9,	34	13.7,	138.0,	199.3,	-81.7,	16.2,
35	13.7,	111.2,	193.8,	-82.2,	19.0,	36	13.7,	82.0,	182.4,	-80.1,	21.7,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK223

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	112.0,	192.2,	-85.6,	24.1,	2	16.8,	350.7,	315.2,	-25.1,	-176.4,
3	16.8,	366.1,	344.4,	-11.0,	-150.8,	4	16.8,	370.4,	363.1,	3.4,	-120.6,
5	16.8,	363.5,	370.8,	17.7,	-86.8,	6	16.8,	345.5,	367.2,	31.5,	-50.3,
7	13.7,	199.3,	138.0,	-84.0,	21.3,	8	13.7,	193.8,	111.2,	-74.0,	18.2,
9	13.7,	182.4,	82.0,	-62.7,	14.7,	10	13.7,	192.2,	112.0,	-80.1,	10.5,
11	16.8,	315.2,	350.7,	1.0,	132.5,	12	16.8,	344.4,	366.1,	-32.3,	161.2,
13	16.8,	363.1,	370.4,	-64.6,	184.9,	14	13.7,	178.4,	192.1,	-121.4,	-7.0,
15	13.7,	160.7,	198.7,	-123.0,	-11.1,	16	13.7,	138.0,	199.3,	-120.9,	-15.0,
17	13.7,	111.2,	193.8,	-115.1,	-18.4,	18	13.7,	82.0,	182.4,	-105.8,	-21.7,
19	13.7,	112.0,	192.2,	-106.6,	-24.1,	20	16.8,	350.7,	315.2,	-290.1,	176.4,
21	16.8,	366.1,	344.4,	-333.4,	150.8,	22	16.8,	370.4,	363.1,	-366.5,	120.6,
23	16.8,	363.5,	370.8,	-388.5,	86.8,	24	16.8,	345.5,	367.2,	-398.7,	50.3,
25	16.8,	317.0,	352.4,	-396.7,	12.3,	26	16.8,	278.9,	327.0,	-382.7,	-26.0,
27	16.8,	232.3,	291.6,	-357.1,	-63.6,	28	16.8,	276.5,	324.6,	-358.9,	-99.8,
29	16.8,	315.2,	350.7,	-351.7,	-132.5,	30	16.8,	344.4,	366.1,	-333.8,	-161.2,
31	16.8,	363.1,	370.4,	-305.8,	-184.9,	32	13.7,	178.4,	192.1,	-70.8,	7.0,
33	13.7,	160.7,	198.7,	-75.7,	11.1,	34	13.7,	138.0,	199.3,	-78.4,	15.0,
35	13.7,	111.2,	193.8,	-78.6,	18.4,	36	13.7,	82.0,	182.4,	-76.5,	21.7,

SOURCE ID: STCK224

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	112.0,	192.2,	-81.7,	24.8,	2	16.8,	350.7,	315.2,	-21.4,	-175.0,
3	16.8,	366.1,	344.4,	-7.6,	-148.8,	4	16.8,	370.4,	363.1,	6.4,	-118.1,
5	16.8,	363.5,	370.8,	20.2,	-83.8,	6	16.8,	345.5,	367.2,	33.4,	-46.9,
7	13.7,	199.3,	138.0,	-82.6,	25.0,	8	13.7,	193.8,	111.2,	-73.3,	22.1,
9	13.7,	182.4,	82.0,	-62.7,	18.6,	10	13.7,	192.2,	112.0,	-80.8,	14.4,
11	16.8,	315.2,	350.7,	-0.3,	136.2,	12	16.8,	344.4,	366.1,	-34.2,	164.6,
13	16.8,	363.1,	370.4,	-67.1,	188.0,	14	13.7,	178.4,	192.1,	-124.4,	-4.4,
15	13.7,	160.7,	198.7,	-126.4,	-9.2,	16	13.7,	138.0,	199.3,	-124.6,	-13.6,
17	13.7,	111.2,	193.8,	-119.0,	-17.7,	18	13.7,	82.0,	182.4,	-109.8,	-21.7,
19	13.7,	112.0,	192.2,	-110.5,	-24.8,	20	16.8,	350.7,	315.2,	-293.8,	175.0,
21	16.8,	366.1,	344.4,	-336.8,	148.8,	22	16.8,	370.4,	363.1,	-369.5,	118.1,
23	16.8,	363.5,	370.8,	-391.0,	83.8,	24	16.8,	345.5,	367.2,	-400.6,	46.9,
25	16.8,	317.0,	352.4,	-398.1,	8.6,	26	16.8,	278.9,	327.0,	-383.4,	-29.9,
27	16.8,	232.3,	291.6,	-357.1,	-67.5,	28	16.8,	276.5,	324.6,	-358.2,	-103.7,
29	16.8,	315.2,	350.7,	-350.3,	-136.2,	30	16.8,	344.4,	366.1,	-331.9,	-164.6,
31	16.8,	363.1,	370.4,	-303.3,	-188.0,	32	13.7,	178.4,	192.1,	-67.7,	4.4,
33	13.7,	160.7,	198.7,	-72.3,	9.2,	34	13.7,	138.0,	199.3,	-74.7,	13.6,
35	13.7,	111.2,	193.8,	-74.8,	17.7,	36	13.7,	82.0,	182.4,	-72.6,	21.7,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK225

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	112.0,	192.2,	-77.5,	25.6,	2	16.8,	350.7,	315.2,	-17.4,	-173.5,
3	16.8,	366.1,	344.4,	-3.9,	-146.7,	4	16.8,	370.4,	363.1,	9.7,	-115.3,
5	16.8,	363.5,	370.8,	23.0,	-80.5,	6	13.7,	198.7,	160.7,	-87.3,	30.8,
7	13.7,	199.3,	138.0,	-81.2,	29.0,	8	13.7,	193.8,	111.2,	-72.5,	26.4,
9	13.7,	182.4,	82.0,	-62.7,	22.9,	10	16.8,	276.5,	324.6,	32.8,	108.0,
11	16.8,	315.2,	350.7,	-1.8,	140.3,	12	16.8,	344.4,	366.1,	-36.4,	168.3,
13	13.7,	190.7,	179.7,	-121.4,	3.8,	14	13.7,	178.4,	192.1,	-127.7,	-1.7,
15	13.7,	160.7,	198.7,	-130.2,	-7.0,	16	13.7,	138.0,	199.3,	-128.7,	-12.1,
17	13.7,	111.2,	193.8,	-123.2,	-16.9,	18	13.7,	82.0,	182.4,	-114.1,	-21.7,
19	13.7,	112.0,	192.2,	-114.8,	-25.6,	20	16.8,	350.7,	315.2,	-297.9,	173.5,
21	16.8,	366.1,	344.4,	-340.5,	146.7,	22	16.8,	370.4,	363.1,	-372.8,	115.3,
23	16.8,	363.5,	370.8,	-393.8,	80.5,	24	16.8,	345.5,	367.2,	-402.8,	43.2,
25	16.8,	317.0,	352.4,	-399.6,	4.6,	26	16.8,	278.9,	327.0,	-384.2,	-34.2,
27	16.8,	232.3,	291.6,	-357.1,	-71.9,	28	16.8,	276.5,	324.6,	-357.4,	-108.0,
29	16.8,	315.2,	350.7,	-348.9,	-140.3,	30	16.8,	344.4,	366.1,	-329.7,	-168.3,
31	13.7,	190.7,	179.7,	-58.3,	-3.8,	32	13.7,	178.4,	192.1,	-64.4,	1.7,
33	13.7,	160.7,	198.7,	-68.6,	7.0,	34	13.7,	138.0,	199.3,	-70.6,	12.1,
35	13.7,	111.2,	193.8,	-70.5,	16.9,	36	13.7,	82.0,	182.4,	-68.3,	21.7,

SOURCE ID: STCK226

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	112.0,	192.2,	-73.0,	26.3,	2	16.8,	350.7,	315.2,	-13.1,	-172.0,
3	16.8,	366.1,	344.4,	0.0,	-144.4,	4	16.8,	370.4,	363.1,	13.2,	-112.4,
5	16.8,	363.5,	370.8,	25.9,	-77.0,	6	13.7,	198.7,	160.7,	-85.1,	34.7,
7	13.7,	199.3,	138.0,	-79.6,	33.2,	8	13.7,	193.8,	111.2,	-71.8,	30.8,
9	13.7,	182.4,	82.0,	-62.7,	27.4,	10	16.8,	276.5,	324.6,	32.1,	112.4,
11	16.8,	315.2,	350.7,	-3.3,	144.5,	12	16.8,	344.4,	366.1,	-38.7,	172.2,
13	13.7,	190.7,	179.7,	-124.3,	7.2,	14	13.7,	178.4,	192.1,	-131.2,	1.2,
15	13.7,	160.7,	198.7,	-134.1,	-4.8,	16	13.7,	138.0,	199.3,	-132.9,	-10.6,
17	13.7,	111.2,	193.8,	-127.7,	-16.1,	18	13.7,	82.0,	182.4,	-118.6,	-21.7,
19	13.7,	112.0,	192.2,	-119.2,	-26.3,	20	16.8,	350.7,	315.2,	-302.1,	172.0,
21	16.8,	366.1,	344.4,	-344.4,	144.4,	22	16.8,	370.4,	363.1,	-376.3,	112.4,
23	16.8,	363.5,	370.8,	-396.7,	77.0,	24	16.8,	345.5,	367.2,	-405.0,	39.3,
25	16.8,	317.0,	352.4,	-401.1,	0.4,	26	16.8,	278.9,	327.0,	-384.9,	-38.6,
27	16.8,	232.3,	291.6,	-357.1,	-76.4,	28	16.8,	276.5,	324.6,	-356.7,	-112.4,
29	16.8,	315.2,	350.7,	-347.3,	-144.5,	30	16.8,	344.4,	366.1,	-327.4,	-172.2,
31	13.7,	190.7,	179.7,	-55.4,	-7.2,	32	13.7,	178.4,	192.1,	-61.0,	-1.2,
33	13.7,	160.7,	198.7,	-64.7,	4.8,	34	13.7,	138.0,	199.3,	-66.4,	10.6,
35	13.7,	111.2,	193.8,	-66.1,	16.1,	36	13.7,	82.0,	182.4,	-63.8,	21.7,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK227

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	112.0,	192.2,	-69.5,	27.0,	2	16.8,	350.7,	315.2,	-9.8,	-170.8,
3	16.8,	366.1,	344.4,	3.1,	-142.6,	4	16.8,	370.4,	363.1,	15.9,	-110.1,
5	16.8,	363.5,	370.8,	28.2,	-74.3,	6	13.7,	198.7,	160.7,	-83.3,	37.8,
7	13.7,	199.3,	138.0,	-78.4,	36.6,	8	13.7,	193.8,	111.2,	-71.1,	34.3,
9	13.7,	182.4,	82.0,	-62.7,	31.0,	10	16.8,	276.5,	324.6,	31.4,	115.9,
11	16.8,	315.2,	350.7,	-4.6,	147.9,	12	16.8,	344.4,	366.1,	-40.4,	175.3,
13	13.7,	190.7,	179.7,	-126.5,	9.9,	14	13.7,	178.4,	192.1,	-133.9,	3.5,
15	13.7,	160.7,	198.7,	-137.2,	-3.0,	16	13.7,	138.0,	199.3,	-136.2,	-9.4,
17	13.7,	111.2,	193.8,	-131.2,	-15.5,	18	13.7,	82.0,	182.4,	-122.2,	-21.7,
19	13.7,	112.0,	192.2,	-122.7,	-27.0,	20	16.8,	350.7,	315.2,	-305.5,	170.8,
21	16.8,	366.1,	344.4,	-347.5,	142.6,	22	16.8,	370.4,	363.1,	-379.0,	110.1,
23	16.8,	363.5,	370.8,	-399.0,	74.3,	24	16.8,	345.5,	367.2,	-406.8,	36.2,
25	16.8,	317.0,	352.4,	-402.3,	-3.0,	26	16.8,	278.9,	327.0,	-385.6,	-42.1,
27	16.8,	232.3,	291.6,	-357.1,	-79.9,	28	16.8,	276.5,	324.6,	-356.0,	-115.9,
29	16.8,	315.2,	350.7,	-346.1,	-147.9,	30	16.8,	344.4,	366.1,	-325.7,	-175.3,
31	13.7,	190.7,	179.7,	-53.1,	-9.9,	32	13.7,	178.4,	192.1,	-58.2,	-3.5,
33	13.7,	160.7,	198.7,	-61.6,	3.0,	34	13.7,	138.0,	199.3,	-63.0,	9.4,
35	13.7,	111.2,	193.8,	-62.6,	15.5,	36	13.7,	82.0,	182.4,	-60.2,	21.7,

SOURCE ID: STCK228

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	112.0,	192.2,	-61.4,	28.4,	2	16.8,	350.7,	315.2,	-2.0,	-168.0,
3	16.8,	366.1,	344.4,	10.3,	-138.5,	4	16.8,	370.4,	363.1,	22.2,	-104.8,
5	16.8,	363.5,	370.8,	33.5,	-68.0,	6	13.7,	198.7,	160.7,	-79.2,	44.9,
7	13.7,	199.3,	138.0,	-75.6,	44.4,	8	13.7,	193.8,	111.2,	-69.7,	42.4,
9	13.7,	182.4,	82.0,	-62.7,	39.2,	10	16.8,	276.5,	324.6,	30.0,	124.0,
11	16.8,	315.2,	350.7,	-7.4,	155.6,	12	13.7,	197.2,	161.8,	-119.5,	23.2,
13	13.7,	190.7,	179.7,	-131.9,	16.3,	14	13.7,	178.4,	192.1,	-140.2,	8.9,
15	13.7,	160.7,	198.7,	-144.3,	1.2,	16	13.7,	138.0,	199.3,	-144.0,	-6.6,
17	13.7,	111.2,	193.8,	-139.3,	-14.1,	18	13.7,	82.0,	182.4,	-130.4,	-21.7,
19	13.7,	112.0,	192.2,	-130.8,	-28.4,	20	16.8,	350.7,	315.2,	-313.2,	168.0,
21	16.8,	366.1,	344.4,	-354.7,	138.5,	22	16.8,	370.4,	363.1,	-385.3,	104.8,
23	16.8,	363.5,	370.8,	-404.3,	68.0,	24	16.8,	345.5,	367.2,	-410.9,	29.0,
25	16.8,	317.0,	352.4,	-405.1,	-10.8,	26	16.8,	278.9,	327.0,	-387.0,	-50.2,
27	16.8,	232.3,	291.6,	-357.1,	-88.2,	28	16.8,	276.5,	324.6,	-354.6,	-124.0,
29	16.8,	315.2,	350.7,	-343.3,	-155.6,	30	13.7,	197.2,	161.8,	-42.3,	-23.2,
31	13.7,	190.7,	179.7,	-47.8,	-16.3,	32	13.7,	178.4,	192.1,	-51.9,	-8.9,
33	13.7,	160.7,	198.7,	-54.4,	-1.2,	34	13.7,	138.0,	199.3,	-55.3,	6.6,
35	13.7,	111.2,	193.8,	-54.4,	14.1,	36	13.7,	82.0,	182.4,	-51.9,	21.7,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK229

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	112.0,	192.2,	-57.1,	29.1,	2	16.8,	350.7,	315.2,	2.0,	-166.5,
3	16.8,	366.1,	344.4,	14.0,	-136.3,	4	16.8,	370.4,	363.1,	25.5,	-102.0,
5	13.7,	192.1,	178.4,	-77.6,	47.4,	6	13.7,	198.7,	160.7,	-77.0,	48.7,
7	13.7,	199.3,	138.0,	-74.1,	48.4,	8	13.7,	193.8,	111.2,	-69.0,	46.7,
9	13.7,	182.4,	82.0,	-62.7,	43.5,	10	16.8,	276.5,	324.6,	29.3,	128.3,
11	16.8,	315.2,	350.7,	-8.9,	159.7,	12	13.7,	197.2,	161.8,	-121.7,	26.9,
13	13.7,	190.7,	179.7,	-134.6,	19.6,	14	13.7,	178.4,	192.1,	-143.5,	11.6,
15	13.7,	160.7,	198.7,	-148.0,	3.3,	16	13.7,	138.0,	199.3,	-148.1,	-5.1,
17	13.7,	111.2,	193.8,	-143.6,	-13.3,	18	13.7,	82.0,	182.4,	-134.7,	-21.7,
19	13.7,	112.0,	192.2,	-135.1,	-29.1,	20	16.8,	350.7,	315.2,	-317.3,	166.5,
21	16.8,	366.1,	344.4,	-358.4,	136.3,	22	16.8,	370.4,	363.1,	-388.6,	102.0,
23	16.8,	363.5,	370.8,	-407.1,	64.6,	24	16.8,	345.5,	367.2,	-413.1,	25.3,
25	16.8,	317.0,	352.4,	-406.6,	-14.8,	26	16.8,	278.9,	327.0,	-387.8,	-54.5,
27	16.8,	232.3,	291.6,	-357.1,	-92.5,	28	16.8,	276.5,	324.6,	-353.9,	-128.3,
29	16.8,	315.2,	350.7,	-341.8,	-159.7,	30	13.7,	197.2,	161.8,	-40.1,	-26.9,
31	13.7,	190.7,	179.7,	-45.1,	-19.6,	32	13.7,	178.4,	192.1,	-48.6,	-11.6,
33	13.7,	160.7,	198.7,	-50.7,	-3.3,	34	13.7,	138.0,	199.3,	-51.2,	5.1,
35	13.7,	111.2,	193.8,	-50.2,	13.3,	36	13.7,	82.0,	182.4,	-47.6,	21.7,

SOURCE ID: STCK230

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	112.0,	192.2,	-53.8,	29.7,	2	16.8,	350.7,	315.2,	5.2,	-165.3,
3	16.8,	366.1,	344.4,	16.9,	-134.6,	4	16.8,	370.4,	363.1,	28.1,	-99.9,
5	13.7,	192.1,	178.4,	-75.4,	50.0,	6	13.7,	198.7,	160.7,	-75.3,	51.6,
7	13.7,	199.3,	138.0,	-73.0,	51.6,	8	13.7,	193.8,	111.2,	-68.4,	50.0,
9	13.7,	182.4,	82.0,	-62.7,	46.9,	10	16.8,	276.5,	324.6,	28.7,	131.6,
11	16.8,	315.2,	350.7,	-10.0,	162.8,	12	13.7,	197.2,	161.8,	-123.3,	29.8,
13	13.7,	190.7,	179.7,	-136.8,	22.2,	14	13.7,	178.4,	192.1,	-146.1,	13.8,
15	13.7,	160.7,	198.7,	-151.0,	5.0,	16	13.7,	138.0,	199.3,	-151.2,	-3.9,
17	13.7,	111.2,	193.8,	-146.9,	-12.7,	18	13.7,	82.0,	182.4,	-138.1,	-21.7,
19	13.7,	112.0,	192.2,	-138.4,	-29.7,	20	16.8,	350.7,	315.2,	-320.5,	165.3,
21	16.8,	366.1,	344.4,	-361.3,	134.6,	22	16.8,	370.4,	363.1,	-391.2,	99.9,
23	16.8,	363.5,	370.8,	-409.2,	62.1,	24	16.8,	345.5,	367.2,	-414.8,	22.4,
25	16.8,	317.0,	352.4,	-407.8,	-18.0,	26	16.8,	278.9,	327.0,	-388.3,	-57.8,
27	16.8,	232.3,	291.6,	-357.1,	-95.9,	28	16.8,	276.5,	324.6,	-353.3,	-131.6,
29	16.8,	315.2,	350.7,	-340.7,	-162.8,	30	13.7,	197.2,	161.8,	-38.5,	-29.8,
31	13.7,	190.7,	179.7,	-42.9,	-22.2,	32	13.7,	178.4,	192.1,	-46.0,	-13.8,
33	13.7,	160.7,	198.7,	-47.8,	-5.0,	34	13.7,	138.0,	199.3,	-48.0,	3.9,
35	13.7,	111.2,	193.8,	-46.9,	12.7,	36	13.7,	82.0,	182.4,	-44.3,	21.7,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK231

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-227.6,	14.6,	2	16.8,	183.0,	283.1,	-231.0,	-1.1,
3	16.8,	218.0,	279.0,	-227.4,	-16.8,	4	16.8,	246.5,	266.6,	-216.9,	-31.9,
5	16.8,	267.4,	246.0,	-199.8,	-46.0,	6	16.8,	349.3,	368.9,	-45.3,	-182.8,
7	16.8,	321.2,	353.6,	-8.0,	-156.0,	8	16.8,	283.3,	327.6,	29.5,	-124.5,
9	16.8,	267.4,	98.4,	-78.5,	-85.1,	10	16.8,	278.5,	142.3,	-85.7,	-88.4,
11	16.8,	283.1,	183.0,	-90.3,	-89.5,	12	16.8,	279.0,	218.0,	-92.2,	-87.9,
13	16.8,	365.8,	373.3,	32.4,	68.2,	14	16.8,	373.0,	366.9,	20.6,	105.3,
15	16.8,	368.9,	349.3,	8.1,	139.2,	16	16.8,	353.6,	321.2,	-4.5,	168.8,
17	16.8,	143.0,	280.2,	-61.5,	-43.5,	18	16.8,	98.4,	267.4,	-48.6,	-29.3,
19	16.8,	142.3,	278.5,	-50.8,	-14.6,	20	16.8,	183.0,	283.1,	-52.0,	1.1,
21	16.8,	218.0,	279.0,	-51.6,	16.8,	22	16.8,	246.5,	266.6,	-49.6,	31.9,
23	16.8,	267.4,	246.0,	-46.2,	46.0,	24	16.8,	349.3,	368.9,	-323.7,	182.8,
25	16.8,	321.2,	353.6,	-345.7,	156.0,	26	16.8,	283.3,	327.6,	-357.1,	124.5,
27	16.8,	237.2,	291.6,	-357.8,	89.0,	28	16.8,	279.9,	325.4,	-386.0,	50.6,
29	16.8,	318.5,	352.2,	-404.9,	10.9,	30	16.8,	347.4,	368.3,	-411.5,	-29.1,
31	16.8,	365.8,	373.3,	-405.7,	-68.2,	32	16.8,	373.0,	366.9,	-387.4,	-105.3,
33	16.8,	368.9,	349.3,	-357.5,	-139.2,	34	16.8,	353.6,	321.2,	-316.6,	-168.8,
35	16.8,	143.0,	280.2,	-218.8,	43.5,	36	16.8,	98.4,	267.4,	-218.8,	29.3,

SOURCE ID: STCK232

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-223.9,	15.2,	2	16.8,	183.0,	283.1,	-227.5,	0.2,
3	16.8,	218.0,	279.0,	-224.1,	-14.9,	4	16.8,	246.5,	266.6,	-214.0,	-29.4,
5	16.8,	267.4,	246.0,	-197.3,	-43.1,	6	16.8,	349.3,	368.9,	-43.4,	-179.5,
7	16.8,	321.2,	353.6,	-6.7,	-152.5,	8	16.8,	283.3,	327.6,	30.2,	-120.8,
9	16.8,	267.4,	98.4,	-78.5,	-81.3,	10	16.8,	278.5,	142.3,	-86.4,	-84.6,
11	16.8,	283.1,	183.0,	-91.7,	-85.9,	12	16.8,	279.0,	218.0,	-94.2,	-84.6,
13	16.8,	365.8,	373.3,	29.9,	71.2,	14	16.8,	373.0,	366.9,	17.6,	107.8,
15	16.8,	368.9,	349.3,	4.8,	141.1,	16	16.8,	353.6,	321.2,	-8.1,	170.1,
17	16.8,	143.0,	280.2,	-65.2,	-42.9,	18	16.8,	98.4,	267.4,	-52.4,	-29.3,
19	16.8,	142.3,	278.5,	-54.6,	-15.2,	20	16.8,	183.0,	283.1,	-55.6,	-0.2,
21	16.8,	218.0,	279.0,	-54.9,	14.9,	22	16.8,	246.5,	266.6,	-52.6,	29.4,
23	16.8,	267.4,	246.0,	-48.6,	43.1,	24	16.8,	349.3,	368.9,	-325.6,	179.5,
25	16.8,	321.2,	353.6,	-347.0,	152.5,	26	16.8,	283.3,	327.6,	-357.8,	120.8,
27	16.8,	237.2,	291.6,	-357.8,	85.2,	28	16.8,	279.9,	325.4,	-385.3,	46.8,
29	16.8,	318.5,	352.2,	-403.6,	7.3,	30	16.8,	347.4,	368.3,	-409.6,	-32.4,
31	16.8,	365.8,	373.3,	-403.2,	-71.2,	32	16.8,	373.0,	366.9,	-384.5,	-107.8,
33	16.8,	368.9,	349.3,	-354.2,	-141.1,	34	16.8,	353.6,	321.2,	-313.0,	-170.1,
35	16.8,	143.0,	280.2,	-215.0,	42.9,	36	16.8,	98.4,	267.4,	-215.0,	29.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK233

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-220.1,	15.9,	2	16.8,	183.0,	283.1,	-223.9,	1.5,
3	16.8,	218.0,	279.0,	-220.8,	-12.9,	4	16.8,	246.5,	266.6,	-211.1,	-27.0,
5	16.8,	267.4,	246.0,	-194.9,	-40.2,	6	16.8,	349.3,	368.9,	-41.5,	-176.2,
7	16.8,	321.2,	353.6,	-5.4,	-148.9,	8	16.8,	283.3,	327.6,	30.9,	-117.0,
9	16.8,	267.4,	98.4,	-78.5,	-77.5,	10	16.8,	278.5,	142.3,	-87.0,	-80.9,
11	16.8,	283.1,	183.0,	-93.0,	-82.3,	12	16.8,	279.0,	218.0,	-96.1,	-81.3,
13	16.8,	365.8,	373.3,	27.4,	74.1,	14	16.8,	373.0,	366.9,	14.7,	110.2,
15	16.8,	368.9,	349.3,	1.5,	143.0,	16	16.8,	353.6,	321.2,	-11.7,	171.4,
17	16.8,	143.0,	280.2,	-69.0,	-42.2,	18	16.8,	98.4,	267.4,	-56.2,	-29.3,
19	16.8,	142.3,	278.5,	-58.4,	-15.9,	20	16.8,	183.0,	283.1,	-59.2,	-1.5,
21	16.8,	218.0,	279.0,	-58.2,	12.9,	22	16.8,	246.5,	266.6,	-55.5,	27.0,
23	16.8,	267.4,	246.0,	-51.1,	40.2,	24	16.8,	349.3,	368.9,	-327.5,	176.2,
25	16.8,	321.2,	353.6,	-348.3,	148.9,	26	16.8,	283.3,	327.6,	-358.5,	117.0,
27	16.8,	237.2,	291.6,	-357.8,	81.4,	28	16.8,	279.9,	325.4,	-384.6,	43.1,
29	16.8,	318.5,	352.2,	-402.3,	3.7,	30	16.8,	347.4,	368.3,	-407.7,	-35.7,
31	16.8,	365.8,	373.3,	-400.7,	-74.1,	32	16.8,	373.0,	366.9,	-381.6,	-110.2,
33	16.8,	368.9,	349.3,	-350.9,	-143.0,	34	16.8,	353.6,	321.2,	-309.4,	-171.4,
35	16.8,	143.0,	280.2,	-211.2,	42.2,	36	16.8,	98.4,	267.4,	-211.2,	29.3,

SOURCE ID: STCK234

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-216.0,	16.6,	2	16.8,	183.0,	283.1,	-220.0,	2.9,
3	16.8,	218.0,	279.0,	-217.2,	-10.9,	4	16.8,	246.5,	266.6,	-207.9,	-24.3,
5	16.8,	267.4,	246.0,	-192.2,	-37.0,	6	16.8,	349.3,	368.9,	-39.4,	-172.6,
7	16.8,	321.2,	353.6,	-4.0,	-145.0,	8	16.8,	283.3,	327.6,	31.6,	-112.9,
9	16.8,	267.4,	98.4,	-78.5,	-73.3,	10	16.8,	278.5,	142.3,	-87.8,	-76.8,
11	16.8,	283.1,	183.0,	-94.4,	-78.4,	12	16.8,	279.0,	218.0,	-98.1,	-77.7,
13	16.8,	365.8,	373.3,	24.8,	77.3,	14	16.8,	373.0,	366.9,	11.5,	112.9,
15	16.8,	368.9,	349.3,	-2.1,	145.1,	16	16.8,	353.6,	321.2,	-15.6,	172.9,
17	16.8,	143.0,	280.2,	-73.1,	-41.5,	18	16.8,	98.4,	267.4,	-60.4,	-29.3,
19	16.8,	142.3,	278.5,	-62.4,	-16.6,	20	16.8,	183.0,	283.1,	-63.1,	-2.9,
21	16.8,	218.0,	279.0,	-61.8,	10.9,	22	16.8,	246.5,	266.6,	-58.7,	24.3,
23	16.8,	267.4,	246.0,	-53.8,	37.0,	24	16.8,	349.3,	368.9,	-329.6,	172.6,
25	16.8,	321.2,	353.6,	-349.7,	145.0,	26	16.8,	283.3,	327.6,	-359.2,	112.9,
27	16.8,	237.2,	291.6,	-357.8,	77.2,	28	16.8,	279.9,	325.4,	-383.9,	39.0,
29	16.8,	318.5,	352.2,	-400.9,	-0.2,	30	16.8,	347.4,	368.3,	-405.6,	-39.3,
31	16.8,	365.8,	373.3,	-398.1,	-77.3,	32	16.8,	373.0,	366.9,	-378.4,	-112.9,
33	16.8,	368.9,	349.3,	-347.3,	-145.1,	34	16.8,	353.6,	321.2,	-305.6,	-172.9,
35	16.8,	143.0,	280.2,	-207.1,	41.5,	36	16.8,	98.4,	267.4,	-207.0,	29.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK235

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-212.3,	17.2,	2	16.8,	183.0,	283.1,	-216.4,	4.2,
3	16.8,	218.0,	279.0,	-213.9,	-9.0,	4	16.8,	246.5,	266.6,	-205.0,	-21.9,
5	16.8,	267.4,	246.0,	-189.8,	-34.1,	6	16.8,	349.3,	368.9,	-37.5,	-169.3,
7	16.8,	321.2,	353.6,	-2.6,	-141.4,	8	16.8,	283.3,	327.6,	32.2,	-109.2,
9	16.8,	267.4,	98.4,	-78.5,	-69.5,	10	16.8,	278.5,	142.3,	-88.4,	-73.0,
11	16.8,	283.1,	183.0,	-95.7,	-74.8,	12	16.8,	279.0,	218.0,	-100.0,	-74.4,
13	16.8,	365.8,	373.3,	22.3,	80.2,	14	16.8,	373.0,	366.9,	8.6,	115.3,
15	16.8,	368.9,	349.3,	-5.4,	147.0,	16	16.8,	353.6,	321.2,	-19.2,	174.2,
17	16.8,	143.0,	280.2,	-76.8,	-40.8,	18	16.8,	98.4,	267.4,	-64.2,	-29.3,
19	16.8,	142.3,	278.5,	-66.2,	-17.2,	20	16.8,	183.0,	283.1,	-66.7,	-4.2,
21	16.8,	218.0,	279.0,	-65.1,	9.0,	22	16.8,	246.5,	266.6,	-61.6,	21.9,
23	16.8,	267.4,	246.0,	-56.2,	34.1,	24	16.8,	349.3,	368.9,	-331.5,	169.3,
25	16.8,	321.2,	353.6,	-351.0,	141.4,	26	16.8,	283.3,	327.6,	-359.9,	109.2,
27	16.8,	237.2,	291.6,	-357.8,	73.4,	28	16.8,	279.9,	325.4,	-383.3,	35.2,
29	16.8,	318.5,	352.2,	-399.6,	-3.7,	30	16.8,	347.4,	368.3,	-403.7,	-42.6,
31	16.8,	365.8,	373.3,	-395.6,	-80.2,	32	16.8,	373.0,	366.9,	-375.5,	-115.3,
33	16.8,	368.9,	349.3,	-344.0,	-147.0,	34	16.8,	353.6,	321.2,	-302.0,	-174.2,
35	16.8,	143.0,	280.2,	-203.4,	40.8,	36	16.8,	98.4,	267.4,	-203.2,	29.3,

SOURCE ID: STCK236

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-208.2,	18.0,	2	16.8,	183.0,	283.1,	-212.5,	5.6,
3	16.8,	218.0,	279.0,	-210.3,	-6.9,	4	16.8,	246.5,	266.6,	-201.8,	-19.2,
5	16.8,	366.9,	373.0,	-68.5,	-188.9,	6	16.8,	349.3,	368.9,	-35.4,	-165.7,
7	16.8,	321.2,	353.6,	-1.2,	-137.5,	8	16.8,	283.3,	327.6,	33.0,	-105.1,
9	16.8,	267.4,	98.4,	-78.5,	-65.3,	10	16.8,	278.5,	142.3,	-89.1,	-69.0,
11	16.8,	283.1,	183.0,	-97.1,	-71.0,	12	16.8,	347.4,	368.3,	33.3,	46.2,
13	16.8,	365.8,	373.3,	19.7,	83.4,	14	16.8,	373.0,	366.9,	5.4,	118.0,
15	16.8,	368.9,	349.3,	-9.0,	149.1,	16	16.8,	353.6,	321.2,	-23.1,	175.6,
17	16.8,	143.0,	280.2,	-80.9,	-40.1,	18	16.8,	98.4,	267.4,	-68.3,	-29.3,
19	16.8,	142.3,	278.5,	-70.3,	-18.0,	20	16.8,	183.0,	283.1,	-70.6,	-5.6,
21	16.8,	218.0,	279.0,	-68.7,	6.9,	22	16.8,	246.5,	266.6,	-64.8,	19.2,
23	16.8,	366.9,	373.0,	-304.5,	188.9,	24	16.8,	349.3,	368.9,	-333.5,	165.7,
25	16.8,	321.2,	353.6,	-352.4,	137.5,	26	16.8,	283.3,	327.6,	-360.6,	105.1,
27	16.8,	237.2,	291.6,	-357.8,	69.3,	28	16.8,	279.9,	325.4,	-382.5,	31.2,
29	16.8,	318.5,	352.2,	-398.1,	-7.6,	30	16.8,	347.4,	368.3,	-401.7,	-46.2,
31	16.8,	365.8,	373.3,	-392.9,	-83.4,	32	16.8,	373.0,	366.9,	-372.3,	-118.0,
33	16.8,	368.9,	349.3,	-340.4,	-149.1,	34	16.8,	353.6,	321.2,	-298.1,	-175.6,
35	16.8,	143.0,	280.2,	-199.3,	40.1,	36	16.8,	98.4,	267.4,	-199.0,	29.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK237

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-200.6,	19.3,	2	16.8,	183.0,	283.1,	-205.2,	8.3,
3	16.8,	218.0,	279.0,	-203.6,	-3.0,	4	16.8,	246.5,	266.6,	-195.9,	-14.2,
5	16.8,	366.9,	373.0,	-63.5,	-183.0,	6	16.8,	349.3,	368.9,	-31.5,	-159.0,
7	16.8,	321.2,	353.6,	1.4,	-130.2,	8	16.8,	280.2,	143.0,	-110.2,	-51.6,
9	16.8,	267.4,	98.4,	-78.5,	-57.6,	10	16.8,	278.5,	142.3,	-90.5,	-61.3,
11	16.8,	283.1,	183.0,	-99.8,	-63.7,	12	16.8,	347.4,	368.3,	29.4,	52.9,
13	16.8,	365.8,	373.3,	14.7,	89.3,	14	16.8,	373.0,	366.9,	-0.5,	123.0,
15	16.8,	368.9,	349.3,	-15.7,	152.9,	16	16.8,	353.6,	321.2,	-30.4,	178.2,
17	16.8,	143.0,	280.2,	-88.5,	-38.8,	18	16.8,	98.4,	267.4,	-76.1,	-29.3,
19	16.8,	142.3,	278.5,	-77.9,	-19.3,	20	16.8,	183.0,	283.1,	-77.8,	-8.3,
21	16.8,	218.0,	279.0,	-75.4,	3.0,	22	16.8,	246.5,	266.6,	-70.7,	14.2,
23	16.8,	366.9,	373.0,	-309.5,	183.0,	24	16.8,	349.3,	368.9,	-337.4,	159.0,
25	16.8,	321.2,	353.6,	-355.1,	130.2,	26	16.8,	283.3,	327.6,	-361.9,	97.5,
27	16.8,	237.2,	291.6,	-357.8,	61.5,	28	16.8,	279.9,	325.4,	-381.2,	23.6,
29	16.8,	318.5,	352.2,	-395.5,	-14.9,	30	16.8,	347.4,	368.3,	-397.8,	-52.9,
31	16.8,	365.8,	373.3,	-388.0,	-89.3,	32	16.8,	373.0,	366.9,	-366.4,	-123.0,
33	16.8,	368.9,	349.3,	-333.7,	-152.9,	34	16.8,	353.6,	321.2,	-290.8,	-178.2,
35	16.8,	143.0,	280.2,	-191.7,	38.8,	36	16.8,	98.4,	267.4,	-191.3,	29.3,

SOURCE ID: STCK238

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-196.3,	20.1,	2	16.8,	183.0,	283.1,	-201.2,	9.8,
3	16.8,	218.0,	279.0,	-199.9,	-0.9,	4	16.8,	246.5,	266.6,	-192.5,	-11.4,
5	16.8,	366.9,	373.0,	-60.7,	-179.6,	6	16.8,	349.3,	368.9,	-29.4,	-155.2,
7	16.8,	321.2,	353.6,	2.9,	-126.1,	8	16.8,	280.2,	143.0,	-109.5,	-47.3,
9	16.8,	267.4,	98.4,	-78.5,	-53.3,	10	16.8,	278.5,	142.3,	-91.2,	-57.1,
11	16.8,	283.1,	183.0,	-101.2,	-59.6,	12	16.8,	347.4,	368.3,	27.3,	56.7,
13	16.8,	365.8,	373.3,	11.9,	92.6,	14	16.8,	373.0,	366.9,	-3.8,	125.8,
15	16.8,	368.9,	349.3,	-19.4,	155.1,	16	16.8,	353.6,	321.2,	-34.4,	179.7,
17	16.8,	143.0,	280.2,	-92.8,	-38.0,	18	16.8,	98.4,	267.4,	-80.4,	-29.3,
19	16.8,	142.3,	278.5,	-82.2,	-20.1,	20	16.8,	183.0,	283.1,	-81.9,	-9.8,
21	16.8,	218.0,	279.0,	-79.2,	0.9,	22	16.8,	246.5,	266.6,	-74.0,	11.4,
23	16.8,	366.9,	373.0,	-312.3,	179.6,	24	16.8,	349.3,	368.9,	-339.6,	155.2,
25	16.8,	321.2,	353.6,	-356.5,	126.1,	26	16.8,	283.3,	327.6,	-362.7,	93.2,
27	16.8,	237.2,	291.6,	-357.8,	57.2,	28	16.8,	279.9,	325.4,	-380.4,	19.3,
29	16.8,	318.5,	352.2,	-394.0,	-19.0,	30	16.8,	347.4,	368.3,	-395.6,	-56.7,
31	16.8,	365.8,	373.3,	-385.2,	-92.6,	32	16.8,	373.0,	366.9,	-363.1,	-125.8,
33	16.8,	368.9,	349.3,	-329.9,	-155.1,	34	16.8,	353.6,	321.2,	-286.7,	-179.7,
35	16.8,	143.0,	280.2,	-187.4,	38.0,	36	16.8,	98.4,	267.4,	-187.0,	29.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK239

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-192.2,	20.8,	2	16.8,	183.0,	283.1,	-197.2,	11.2,
3	16.8,	218.0,	279.0,	-196.2,	1.2,	4	16.8,	246.5,	266.6,	-189.3,	-8.7,
5	16.8,	366.9,	373.0,	-58.0,	-176.4,	6	16.8,	349.3,	368.9,	-27.3,	-151.6,
7	16.8,	321.2,	353.6,	4.3,	-122.2,	8	16.8,	280.2,	143.0,	-108.8,	-43.2,
9	16.8,	267.4,	98.4,	-78.5,	-49.1,	10	16.8,	278.5,	142.3,	-92.0,	-52.9,
11	16.8,	283.1,	183.0,	-102.7,	-55.7,	12	16.8,	347.4,	368.3,	25.2,	60.3,
13	16.8,	365.8,	373.3,	9.2,	95.8,	14	16.8,	373.0,	366.9,	-7.0,	128.5,
15	16.8,	368.9,	349.3,	-23.1,	157.2,	16	16.8,	353.6,	321.2,	-38.4,	181.2,
17	16.8,	143.0,	280.2,	-97.0,	-37.3,	18	16.8,	98.4,	267.4,	-84.6,	-29.3,
19	16.8,	142.3,	278.5,	-86.3,	-20.8,	20	16.8,	183.0,	283.1,	-85.8,	-11.2,
21	16.8,	218.0,	279.0,	-82.8,	-1.2,	22	16.8,	246.5,	266.6,	-77.2,	8.7,
23	16.8,	366.9,	373.0,	-315.0,	176.4,	24	16.8,	349.3,	368.9,	-341.7,	151.6,
25	16.8,	321.2,	353.6,	-358.0,	122.2,	26	16.8,	283.3,	327.6,	-363.4,	89.1,
27	16.8,	237.2,	291.6,	-357.8,	53.0,	28	16.8,	279.9,	325.4,	-379.7,	15.2,
29	16.8,	318.5,	352.2,	-392.6,	-22.9,	30	16.8,	347.4,	368.3,	-393.5,	-60.3,
31	16.8,	365.8,	373.3,	-382.5,	-95.8,	32	16.8,	373.0,	366.9,	-359.9,	-128.5,
33	16.8,	368.9,	349.3,	-326.3,	-157.2,	34	16.8,	353.6,	321.2,	-282.8,	-181.2,
35	16.8,	143.0,	280.2,	-183.3,	37.3,	36	16.8,	98.4,	267.4,	-182.8,	29.3,

SOURCE ID: STCK240

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-188.4,	21.5,	2	16.8,	183.0,	283.1,	-193.6,	12.5,
3	16.8,	218.0,	279.0,	-193.0,	3.1,	4	16.8,	373.3,	365.8,	-84.1,	-193.4,
5	16.8,	366.9,	373.0,	-55.6,	-173.5,	6	16.8,	349.3,	368.9,	-25.4,	-148.3,
7	16.8,	321.2,	353.6,	5.6,	-118.6,	8	16.8,	280.2,	143.0,	-108.1,	-39.4,
9	16.8,	267.4,	98.4,	-78.5,	-45.3,	10	16.8,	278.5,	142.3,	-92.6,	-49.2,
11	16.8,	283.1,	183.0,	-104.0,	-52.1,	12	16.8,	347.4,	368.3,	23.3,	63.6,
13	16.8,	365.8,	373.3,	6.8,	98.8,	14	16.8,	373.0,	366.9,	-9.9,	130.9,
15	16.8,	368.9,	349.3,	-26.4,	159.1,	16	16.8,	353.6,	321.2,	-42.0,	182.5,
17	16.8,	143.0,	280.2,	-100.7,	-36.6,	18	16.8,	98.4,	267.4,	-88.4,	-29.3,
19	16.8,	142.3,	278.5,	-90.0,	-21.5,	20	16.8,	183.0,	283.1,	-89.4,	-12.5,
21	16.8,	218.0,	279.0,	-86.1,	-3.1,	22	16.8,	373.3,	365.8,	-281.6,	193.4,
23	16.8,	366.9,	373.0,	-317.4,	173.5,	24	16.8,	349.3,	368.9,	-343.6,	148.3,
25	16.8,	321.2,	353.6,	-359.3,	118.6,	26	16.8,	283.3,	327.6,	-364.1,	85.3,
27	16.8,	237.2,	291.6,	-357.8,	49.2,	28	16.8,	279.9,	325.4,	-379.1,	11.4,
29	16.8,	318.5,	352.2,	-391.3,	-26.5,	30	16.8,	347.4,	368.3,	-391.6,	-63.6,
31	16.8,	365.8,	373.3,	-380.1,	-98.8,	32	16.8,	373.0,	366.9,	-356.9,	-130.9,
33	16.8,	368.9,	349.3,	-323.0,	-159.1,	34	16.8,	353.6,	321.2,	-279.2,	-182.5,
35	16.8,	143.0,	280.2,	-179.5,	36.6,	36	16.8,	98.4,	267.4,	-179.0,	29.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK241

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-184.8,	22.1,	2	16.8,	183.0,	283.1,	-190.2,	13.7,
3	16.8,	218.0,	279.0,	-189.8,	5.0,	4	16.8,	373.3,	365.8,	-81.3,	-191.1,
5	16.8,	366.9,	373.0,	-53.2,	-170.7,	6	16.8,	349.3,	368.9,	-23.5,	-145.2,
7	16.8,	321.2,	353.6,	6.9,	-115.2,	8	16.8,	280.2,	143.0,	-107.5,	-35.8,
9	16.8,	267.4,	98.4,	-78.5,	-41.6,	10	16.8,	278.5,	142.3,	-93.3,	-45.6,
11	16.8,	283.1,	183.0,	-105.2,	-48.7,	12	16.8,	347.4,	368.3,	21.4,	66.8,
13	16.8,	365.8,	373.3,	4.4,	101.5,	14	16.8,	373.0,	366.9,	-12.7,	133.3,
15	16.8,	368.9,	349.3,	-29.5,	160.9,	16	16.8,	353.6,	321.2,	-45.4,	183.7,
17	16.8,	143.0,	280.2,	-104.3,	-36.0,	18	16.8,	98.4,	267.4,	-92.1,	-29.3,
19	16.8,	142.3,	278.5,	-93.6,	-22.1,	20	16.8,	183.0,	283.1,	-92.9,	-13.7,
21	16.8,	218.0,	279.0,	-89.3,	-5.0,	22	16.8,	373.3,	365.8,	-284.4,	191.1,
23	16.8,	366.9,	373.0,	-319.8,	170.7,	24	16.8,	349.3,	368.9,	-345.4,	145.2,
25	16.8,	321.2,	353.6,	-360.5,	115.2,	26	16.8,	283.3,	327.6,	-364.7,	81.7,
27	16.8,	237.2,	291.6,	-357.8,	45.5,	28	16.8,	279.9,	325.4,	-378.4,	7.8,
29	16.8,	318.5,	352.2,	-390.0,	-29.9,	30	16.8,	347.4,	368.3,	-389.8,	-66.8,
31	16.8,	365.8,	373.3,	-377.7,	-101.5,	32	16.8,	373.0,	366.9,	-354.1,	-133.3,
33	16.8,	368.9,	349.3,	-319.8,	-160.9,	34	16.8,	353.6,	321.2,	-275.8,	-183.7,
35	16.8,	143.0,	280.2,	-175.9,	36.0,	36	16.8,	98.4,	267.4,	-175.3,	29.3,

SOURCE ID: STCK242

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-181.0,	22.8,	2	16.8,	183.0,	283.1,	-186.5,	15.1,
3	16.8,	218.0,	279.0,	-186.4,	6.9,	4	16.8,	373.3,	365.8,	-78.3,	-188.5,
5	16.8,	366.9,	373.0,	-50.7,	-167.7,	6	16.8,	349.3,	368.9,	-21.6,	-141.8,
7	16.8,	321.2,	353.6,	8.2,	-111.5,	8	16.8,	280.2,	143.0,	-106.8,	-31.9,
9	16.8,	267.4,	98.4,	-78.5,	-37.7,	10	16.8,	278.5,	142.3,	-93.9,	-41.7,
11	16.8,	283.1,	183.0,	-106.6,	-45.0,	12	16.8,	347.4,	368.3,	19.5,	70.2,
13	16.8,	365.8,	373.3,	1.9,	104.6,	14	16.8,	373.0,	366.9,	-15.8,	135.8,
15	16.8,	368.9,	349.3,	-32.9,	162.9,	16	16.8,	353.6,	321.2,	-49.1,	185.0,
17	16.8,	143.0,	280.2,	-108.2,	-35.3,	18	16.8,	98.4,	267.4,	-96.0,	-29.3,
19	16.8,	142.3,	278.5,	-97.5,	-22.8,	20	16.8,	183.0,	283.1,	-96.6,	-15.1,
21	16.8,	218.0,	279.0,	-92.7,	-6.9,	22	16.8,	373.3,	365.8,	-287.4,	188.5,
23	16.8,	366.9,	373.0,	-322.3,	167.7,	24	16.8,	349.3,	368.9,	-347.4,	141.8,
25	16.8,	321.2,	353.6,	-361.9,	111.5,	26	16.8,	283.3,	327.6,	-365.4,	77.9,
27	16.8,	237.2,	291.6,	-357.8,	41.6,	28	16.8,	279.9,	325.4,	-377.7,	3.9,
29	16.8,	318.5,	352.2,	-388.7,	-33.6,	30	16.8,	347.4,	368.3,	-387.8,	-70.2,
31	16.8,	365.8,	373.3,	-375.2,	-104.6,	32	16.8,	373.0,	366.9,	-351.1,	-135.8,
33	16.8,	368.9,	349.3,	-316.4,	-162.9,	34	16.8,	353.6,	321.2,	-272.1,	-185.0,
35	16.8,	143.0,	280.2,	-172.1,	35.3,	36	16.8,	98.4,	267.4,	-171.4,	29.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK243

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-176.5,	23.6,	2	16.8,	183.0,	283.1,	-182.3,	16.6,
3	16.8,	218.0,	279.0,	-182.5,	9.2,	4	16.8,	373.3,	365.8,	-74.9,	-185.7,
5	16.8,	366.9,	373.0,	-47.8,	-164.3,	6	16.8,	349.3,	368.9,	-19.3,	-137.9,
7	16.8,	321.2,	353.6,	9.8,	-107.3,	8	16.8,	280.2,	143.0,	-106.0,	-27.5,
9	16.8,	267.4,	98.4,	-78.5,	-33.2,	10	16.8,	278.5,	142.3,	-94.7,	-37.3,
11	16.8,	283.1,	183.0,	-108.1,	-40.8,	12	16.8,	347.4,	368.3,	17.2,	74.0,
13	16.8,	365.8,	373.3,	-1.0,	108.0,	14	16.8,	373.0,	366.9,	-19.2,	138.7,
15	16.8,	368.9,	349.3,	-36.8,	165.1,	16	16.8,	183.2,	284.6,	-121.3,	-38.7,
17	16.8,	143.0,	280.2,	-112.6,	-34.5,	18	16.8,	98.4,	267.4,	-100.5,	-29.3,
19	16.8,	142.3,	278.5,	-101.9,	-23.6,	20	16.8,	183.0,	283.1,	-100.8,	-16.6,
21	16.8,	218.0,	279.0,	-96.5,	-9.2,	22	16.8,	373.3,	365.8,	-290.9,	185.7,
23	16.8,	366.9,	373.0,	-325.2,	164.3,	24	16.8,	349.3,	368.9,	-349.6,	137.9,
25	16.8,	321.2,	353.6,	-363.4,	107.3,	26	16.8,	283.3,	327.6,	-366.2,	73.5,
27	16.8,	237.2,	291.6,	-357.8,	37.1,	28	16.8,	279.9,	325.4,	-377.0,	-0.5,
29	16.8,	318.5,	352.2,	-387.2,	-37.8,	30	16.8,	347.4,	368.3,	-385.6,	-74.0,
31	16.8,	365.8,	373.3,	-372.3,	-108.0,	32	16.8,	373.0,	366.9,	-347.7,	-138.7,
33	16.8,	368.9,	349.3,	-312.5,	-165.1,	34	16.8,	183.2,	284.6,	-163.3,	38.7,
35	16.8,	143.0,	280.2,	-167.7,	34.5,	36	16.8,	98.4,	267.4,	-166.9,	29.3,

SOURCE ID: STCK244

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-168.5,	25.0,	2	16.8,	183.0,	283.1,	-174.6,	19.4,
3	16.8,	218.0,	279.0,	-175.5,	13.2,	4	16.8,	373.3,	365.8,	-68.6,	-180.4,
5	16.8,	366.9,	373.0,	-42.6,	-158.0,	6	16.8,	349.3,	368.9,	-15.3,	-130.8,
7	16.8,	321.2,	353.6,	12.5,	-99.6,	8	16.8,	280.2,	143.0,	-104.6,	-19.5,
9	16.8,	267.4,	98.4,	-78.5,	-25.1,	10	16.8,	278.5,	142.3,	-96.1,	-29.3,
11	16.8,	318.5,	352.2,	32.2,	45.5,	12	16.8,	347.4,	368.3,	13.2,	81.1,
13	16.8,	365.8,	373.3,	-6.2,	114.2,	14	16.8,	373.0,	366.9,	-25.4,	143.9,
15	16.8,	368.9,	349.3,	-43.8,	169.2,	16	16.8,	183.2,	284.6,	-128.9,	-35.9,
17	16.8,	143.0,	280.2,	-120.6,	-33.1,	18	16.8,	98.4,	267.4,	-108.6,	-29.3,
19	16.8,	142.3,	278.5,	-109.9,	-25.0,	20	16.8,	183.0,	283.1,	-108.4,	-19.4,
21	16.8,	218.0,	279.0,	-103.6,	-13.2,	22	16.8,	373.3,	365.8,	-297.1,	180.4,
23	16.8,	366.9,	373.0,	-330.4,	158.0,	24	16.8,	349.3,	368.9,	-353.7,	130.8,
25	16.8,	321.2,	353.6,	-366.2,	99.6,	26	16.8,	283.3,	327.6,	-367.6,	65.4,
27	16.8,	237.2,	291.6,	-357.8,	29.0,	28	16.8,	279.9,	325.4,	-375.5,	-8.5,
29	16.8,	318.5,	352.2,	-384.4,	-45.5,	30	16.8,	347.4,	368.3,	-381.5,	-81.1,
31	16.8,	365.8,	373.3,	-367.1,	-114.2,	32	16.8,	373.0,	366.9,	-341.5,	-143.9,
33	16.8,	368.9,	349.3,	-305.5,	-169.2,	34	16.8,	183.2,	284.6,	-155.7,	35.9,
35	16.8,	143.0,	280.2,	-159.6,	33.1,	36	16.8,	98.4,	267.4,	-158.8,	29.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK245

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-164.9,	25.6,	2	16.8,	183.0,	283.1,	-171.2,	20.7,
3	16.8,	218.0,	279.0,	-172.3,	15.1,	4	16.8,	373.3,	365.8,	-65.8,	-178.1,
5	16.8,	366.9,	373.0,	-40.2,	-155.2,	6	16.8,	349.3,	368.9,	-13.4,	-127.6,
7	16.8,	321.2,	353.6,	13.8,	-96.2,	8	16.8,	280.2,	143.0,	-104.0,	-15.9,
9	16.8,	267.4,	98.4,	-78.5,	-21.4,	10	16.8,	278.5,	142.3,	-96.8,	-25.7,
11	16.8,	318.5,	352.2,	30.9,	48.9,	12	16.8,	347.4,	368.3,	11.3,	84.3,
13	16.8,	365.8,	373.3,	-8.6,	117.0,	14	16.8,	373.0,	366.9,	-28.2,	146.2,
15	16.8,	368.9,	349.3,	-47.0,	171.0,	16	16.8,	183.2,	284.6,	-132.3,	-34.7,
17	16.8,	143.0,	280.2,	-124.2,	-32.5,	18	16.8,	98.4,	267.4,	-112.3,	-29.3,
19	16.8,	142.3,	278.5,	-113.5,	-25.6,	20	16.8,	183.0,	283.1,	-111.8,	-20.7,
21	16.8,	218.0,	279.0,	-106.8,	-15.1,	22	16.8,	373.3,	365.8,	-299.9,	178.1,
23	16.8,	366.9,	373.0,	-332.8,	155.2,	24	16.8,	349.3,	368.9,	-355.5,	127.6,
25	16.8,	321.2,	353.6,	-367.4,	96.2,	26	16.8,	283.3,	327.6,	-368.2,	61.8,
27	16.8,	237.2,	291.6,	-357.8,	25.3,	28	16.8,	279.9,	325.4,	-374.9,	-12.1,
29	16.8,	318.5,	352.2,	-383.1,	-48.9,	30	16.8,	347.4,	368.3,	-379.7,	-84.3,
31	16.8,	365.8,	373.3,	-364.7,	-117.0,	32	16.8,	373.0,	366.9,	-338.7,	-146.2,
33	16.8,	368.9,	349.3,	-302.3,	-171.0,	34	16.8,	183.2,	284.6,	-152.2,	34.7,
35	16.8,	143.0,	280.2,	-156.0,	32.5,	36	16.8,	98.4,	267.4,	-155.1,	29.3,

SOURCE ID: STCK246

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-160.5,	26.4,	2	16.8,	183.0,	283.1,	-167.0,	22.2,
3	16.8,	218.0,	279.0,	-168.4,	17.3,	4	16.8,	373.3,	365.8,	-62.4,	-175.2,
5	16.8,	366.9,	373.0,	-37.4,	-151.8,	6	16.8,	349.3,	368.9,	-11.2,	-123.8,
7	16.8,	321.2,	353.6,	15.3,	-92.0,	8	16.8,	280.2,	143.0,	-103.2,	-11.5,
9	16.8,	267.4,	98.4,	-78.5,	-16.9,	10	16.8,	278.5,	142.3,	-97.5,	-21.3,
11	16.8,	318.5,	352.2,	29.4,	53.1,	12	16.8,	347.4,	368.3,	9.1,	88.1,
13	16.8,	365.8,	373.3,	-11.5,	120.5,	14	16.8,	373.0,	366.9,	-31.7,	149.1,
15	16.8,	368.9,	349.3,	-50.9,	173.3,	16	16.8,	183.2,	284.6,	-136.6,	-33.1,
17	16.8,	143.0,	280.2,	-128.6,	-31.7,	18	16.8,	98.4,	267.4,	-116.8,	-29.3,
19	16.8,	142.3,	278.5,	-118.0,	-26.4,	20	16.8,	183.0,	283.1,	-116.1,	-22.2,
21	16.8,	218.0,	279.0,	-110.6,	-17.3,	22	16.8,	373.3,	365.8,	-303.4,	175.2,
23	16.8,	366.9,	373.0,	-335.6,	151.8,	24	16.8,	349.3,	368.9,	-357.7,	123.8,
25	16.8,	321.2,	353.6,	-369.0,	92.0,	26	16.8,	283.3,	327.6,	-369.0,	57.4,
27	16.8,	237.2,	291.6,	-357.8,	20.9,	28	16.8,	279.9,	325.4,	-374.1,	-16.5,
29	16.8,	318.5,	352.2,	-381.6,	-53.1,	30	16.8,	347.4,	368.3,	-377.4,	-88.1,
31	16.8,	365.8,	373.3,	-361.8,	-120.5,	32	16.8,	373.0,	366.9,	-335.2,	-149.1,
33	16.8,	368.9,	349.3,	-298.4,	-173.3,	34	16.8,	183.2,	284.6,	-148.0,	33.1,
35	16.8,	143.0,	280.2,	-151.6,	31.7,	36	16.8,	98.4,	267.4,	-150.6,	29.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK247

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-156.5,	27.1,	2	16.8,	183.0,	283.1,	-163.2,	23.6,
3	16.8,	368.3,	347.4,	-82.0,	-191.2,	4	16.8,	373.3,	365.8,	-59.3,	-172.6,
5	16.8,	366.9,	373.0,	-34.8,	-148.7,	6	16.8,	349.3,	368.9,	-9.2,	-120.2,
7	16.8,	321.2,	353.6,	16.7,	-88.2,	8	16.8,	280.2,	143.0,	-102.5,	-7.5,
9	16.8,	267.4,	98.4,	-78.5,	-12.9,	10	16.8,	278.5,	142.3,	-98.2,	-17.3,
11	16.8,	318.5,	352.2,	28.0,	56.9,	12	16.8,	347.4,	368.3,	7.1,	91.6,
13	16.8,	365.8,	373.3,	-14.1,	123.6,	14	16.8,	373.0,	366.9,	-34.8,	151.7,
15	16.8,	368.9,	349.3,	-54.4,	175.3,	16	16.8,	183.2,	284.6,	-140.4,	-31.8,
17	16.8,	143.0,	280.2,	-132.6,	-31.0,	18	16.8,	98.4,	267.4,	-120.8,	-29.3,
19	16.8,	142.3,	278.5,	-122.0,	-27.1,	20	16.8,	183.0,	283.1,	-119.9,	-23.6,
21	16.8,	368.3,	347.4,	-265.4,	191.2,	22	16.8,	373.3,	365.8,	-306.5,	172.6,
23	16.8,	366.9,	373.0,	-338.2,	148.7,	24	16.8,	349.3,	368.9,	-359.8,	120.2,
25	16.8,	321.2,	353.6,	-370.4,	88.2,	26	16.8,	283.3,	327.6,	-369.7,	53.4,
27	16.8,	237.2,	291.6,	-357.8,	16.8,	28	16.8,	279.9,	325.4,	-373.4,	-20.5,
29	16.8,	318.5,	352.2,	-380.2,	-56.9,	30	16.8,	347.4,	368.3,	-375.4,	-91.6,
31	16.8,	365.8,	373.3,	-359.2,	-123.6,	32	16.8,	373.0,	366.9,	-332.1,	-151.7,
33	16.8,	368.9,	349.3,	-294.9,	-175.3,	34	16.8,	183.2,	284.6,	-144.2,	31.8,
35	16.8,	143.0,	280.2,	-147.6,	31.0,	36	16.8,	98.4,	267.4,	-146.6,	29.3,

SOURCE ID: STCK248

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-152.8,	27.8,	2	16.8,	183.0,	283.1,	-159.6,	24.9,
3	16.8,	368.3,	347.4,	-78.8,	-189.3,	4	16.8,	373.3,	365.8,	-56.4,	-170.1,
5	16.8,	366.9,	373.0,	-32.3,	-145.8,	6	16.8,	349.3,	368.9,	-7.3,	-117.0,
7	16.8,	321.2,	353.6,	18.0,	-84.6,	8	16.8,	280.2,	143.0,	-101.8,	-3.8,
9	16.8,	267.4,	98.4,	-78.5,	-9.1,	10	16.8,	278.5,	142.3,	-98.9,	-13.5,
11	16.8,	318.5,	352.2,	26.7,	60.5,	12	16.8,	347.4,	368.3,	5.2,	95.0,
13	16.8,	365.8,	373.3,	-16.5,	126.5,	14	16.8,	373.0,	366.9,	-37.7,	154.2,
15	16.8,	368.9,	349.3,	-57.7,	177.2,	16	16.8,	183.2,	284.6,	-143.9,	-30.4,
17	16.8,	143.0,	280.2,	-136.4,	-30.3,	18	16.8,	98.4,	267.4,	-124.6,	-29.3,
19	16.8,	142.3,	278.5,	-125.7,	-27.8,	20	16.8,	183.0,	283.1,	-123.5,	-24.9,
21	16.8,	368.3,	347.4,	-268.7,	189.3,	22	16.8,	373.3,	365.8,	-309.4,	170.1,
23	16.8,	366.9,	373.0,	-340.7,	145.8,	24	16.8,	349.3,	368.9,	-361.7,	117.0,
25	16.8,	321.2,	353.6,	-371.7,	84.6,	26	16.8,	283.3,	327.6,	-370.3,	49.7,
27	16.8,	237.2,	291.6,	-357.8,	13.0,	28	16.8,	279.9,	325.4,	-372.8,	-24.2,
29	16.8,	318.5,	352.2,	-378.9,	-60.5,	30	16.8,	347.4,	368.3,	-373.5,	-95.0,
31	16.8,	365.8,	373.3,	-356.8,	-126.5,	32	16.8,	373.0,	366.9,	-329.2,	-154.2,
33	16.8,	368.9,	349.3,	-291.6,	-177.2,	34	16.8,	183.2,	284.6,	-140.6,	30.4,
35	16.8,	143.0,	280.2,	-143.9,	30.3,	36	16.8,	98.4,	267.4,	-142.8,	29.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK249

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-148.9,	28.4,	2	16.8,	183.0,	283.1,	-155.9,	26.2,
3	16.8,	368.3,	347.4,	-75.3,	-187.4,	4	16.8,	373.3,	365.8,	-53.4,	-167.6,
5	16.8,	366.9,	373.0,	-29.8,	-142.8,	6	16.8,	349.3,	368.9,	-5.3,	-113.6,
7	16.8,	321.2,	353.6,	19.4,	-80.9,	8	16.8,	280.2,	143.0,	-101.1,	0.1,
9	16.8,	267.4,	98.4,	-78.5,	-5.1,	10	16.8,	278.5,	142.3,	-99.6,	-9.7,
11	16.8,	318.5,	352.2,	25.4,	64.2,	12	16.8,	347.4,	368.3,	3.2,	98.3,
13	16.8,	365.8,	373.3,	-19.0,	129.5,	14	16.8,	373.0,	366.9,	-40.7,	156.7,
15	16.8,	368.9,	349.3,	-61.1,	179.2,	16	16.8,	183.2,	284.6,	-147.6,	-29.1,
17	16.8,	143.0,	280.2,	-140.2,	-29.6,	18	16.8,	98.4,	267.4,	-128.6,	-29.3,
19	16.8,	142.3,	278.5,	-129.6,	-28.4,	20	16.8,	183.0,	283.1,	-127.1,	-26.2,
21	16.8,	368.3,	347.4,	-272.1,	187.4,	22	16.8,	373.3,	365.8,	-312.4,	167.6,
23	16.8,	366.9,	373.0,	-343.2,	142.8,	24	16.8,	349.3,	368.9,	-363.6,	113.6,
25	16.8,	321.2,	353.6,	-373.0,	80.9,	26	16.8,	283.3,	327.6,	-371.0,	45.8,
27	16.8,	237.2,	291.6,	-357.8,	9.1,	28	16.8,	279.9,	325.4,	-372.1,	-28.1,
29	16.8,	318.5,	352.2,	-377.6,	-64.2,	30	16.8,	347.4,	368.3,	-371.6,	-98.3,
31	16.8,	365.8,	373.3,	-354.2,	-129.5,	32	16.8,	373.0,	366.9,	-326.2,	-156.7,
33	16.8,	368.9,	349.3,	-288.2,	-179.2,	34	16.8,	183.2,	284.6,	-136.9,	29.1,
35	16.8,	143.0,	280.2,	-140.0,	29.6,	36	16.8,	98.4,	267.4,	-138.8,	29.3,

SOURCE ID: STCK250

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-144.8,	29.2,	2	16.8,	183.0,	283.1,	-152.0,	27.7,
3	16.8,	368.3,	347.4,	-71.7,	-185.3,	4	16.8,	373.3,	365.8,	-50.2,	-164.9,
5	16.8,	366.9,	373.0,	-27.1,	-139.5,	6	16.8,	349.3,	368.9,	-3.2,	-109.9,
7	16.8,	321.2,	353.6,	20.8,	-77.0,	8	16.8,	280.2,	143.0,	-100.4,	4.2,
9	16.8,	267.4,	98.4,	-78.5,	-0.9,	10	16.8,	278.5,	142.3,	-100.3,	-5.5,
11	16.8,	318.5,	352.2,	23.9,	68.2,	12	16.8,	347.4,	368.3,	1.1,	102.0,
13	16.8,	365.8,	373.3,	-21.7,	132.7,	14	16.8,	373.0,	366.9,	-43.9,	159.4,
15	16.8,	368.9,	349.3,	-64.8,	181.3,	16	16.8,	183.2,	284.6,	-151.6,	-27.7,
17	16.8,	143.0,	280.2,	-144.4,	-28.9,	18	16.8,	98.4,	267.4,	-132.8,	-29.3,
19	16.8,	142.3,	278.5,	-133.7,	-29.2,	20	16.8,	183.0,	283.1,	-131.1,	-27.7,
21	16.8,	368.3,	347.4,	-275.7,	185.3,	22	16.8,	373.3,	365.8,	-315.6,	164.9,
23	16.8,	366.9,	373.0,	-345.9,	139.5,	24	16.8,	349.3,	368.9,	-365.7,	109.9,
25	16.8,	321.2,	353.6,	-374.4,	77.0,	26	16.8,	283.3,	327.6,	-371.8,	41.7,
27	16.8,	237.2,	291.6,	-357.8,	4.8,	28	16.8,	279.9,	325.4,	-371.4,	-32.3,
29	16.8,	318.5,	352.2,	-376.1,	-68.2,	30	16.8,	347.4,	368.3,	-369.4,	-102.0,
31	16.8,	365.8,	373.3,	-351.6,	-132.7,	32	16.8,	373.0,	366.9,	-323.0,	-159.4,
33	16.8,	368.9,	349.3,	-284.6,	-181.3,	34	16.8,	183.2,	284.6,	-133.0,	27.7,
35	16.8,	143.0,	280.2,	-135.9,	28.9,	36	16.8,	98.4,	267.4,	-134.6,	29.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK251

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-136.8,	30.6,	2	16.8,	183.0,	283.1,	-144.4,	30.4,
3	16.8,	368.3,	347.4,	-64.7,	-181.2,	4	16.8,	373.3,	365.8,	-44.0,	-159.7,
5	16.8,	366.9,	373.0,	-21.9,	-133.4,	6	16.8,	349.3,	368.9,	0.8,	-102.9,
7	16.8,	321.2,	353.6,	23.6,	-69.4,	8	16.8,	280.2,	143.0,	-99.0,	12.2,
9	16.8,	267.4,	98.4,	-78.5,	7.1,	10	16.8,	278.5,	142.3,	-101.7,	2.4,
11	16.8,	318.5,	352.2,	21.2,	75.8,	12	16.8,	347.4,	368.3,	-2.9,	109.0,
13	16.8,	365.8,	373.3,	-26.9,	138.9,	14	16.8,	373.0,	366.9,	-50.1,	164.6,
15	16.8,	368.9,	349.3,	-71.8,	185.3,	16	16.8,	183.2,	284.6,	-159.2,	-24.9,
17	16.8,	143.0,	280.2,	-152.3,	-27.5,	18	16.8,	98.4,	267.4,	-140.8,	-29.3,
19	16.8,	142.3,	278.5,	-141.7,	-30.6,	20	16.8,	183.0,	283.1,	-138.7,	-30.4,
21	16.8,	368.3,	347.4,	-282.7,	181.2,	22	16.8,	373.3,	365.8,	-321.8,	159.7,
23	16.8,	366.9,	373.0,	-351.1,	133.4,	24	16.8,	349.3,	368.9,	-369.8,	102.9,
25	16.8,	321.2,	353.6,	-377.2,	69.4,	26	16.8,	283.3,	327.6,	-373.2,	33.7,
27	16.8,	237.2,	291.6,	-357.8,	-3.2,	28	16.8,	279.9,	325.4,	-369.9,	-40.2,
29	16.8,	318.5,	352.2,	-373.4,	-75.8,	30	16.8,	347.4,	368.3,	-365.4,	-109.0,
31	16.8,	365.8,	373.3,	-346.4,	-138.9,	32	16.8,	373.0,	366.9,	-316.8,	-164.6,
33	16.8,	368.9,	349.3,	-277.6,	-185.3,	34	16.8,	183.2,	284.6,	-125.4,	24.9,
35	16.8,	143.0,	280.2,	-127.9,	27.5,	36	16.8,	98.4,	267.4,	-126.6,	29.3,

SOURCE ID: STCK252

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-133.1,	31.2,	2	16.8,	183.0,	283.1,	-140.8,	31.7,
3	16.8,	368.3,	347.4,	-61.4,	-179.3,	4	16.8,	373.3,	365.8,	-41.1,	-157.3,
5	16.8,	366.9,	373.0,	-19.5,	-130.4,	6	16.8,	349.3,	368.9,	2.7,	-99.6,
7	16.8,	321.2,	353.6,	24.9,	-65.8,	8	16.8,	280.2,	143.0,	-98.3,	15.9,
9	16.8,	267.4,	98.4,	-78.5,	10.9,	10	16.8,	278.5,	142.3,	-102.4,	6.2,
11	16.8,	318.5,	352.2,	19.9,	79.3,	12	16.8,	347.4,	368.3,	-4.8,	112.3,
13	16.8,	365.8,	373.3,	-29.4,	141.8,	14	16.8,	373.0,	366.9,	-53.0,	167.1,
15	16.8,	368.9,	349.3,	-75.0,	187.2,	16	16.8,	183.2,	284.6,	-162.7,	-23.6,
17	16.8,	143.0,	280.2,	-156.1,	-26.9,	18	16.8,	98.4,	267.4,	-144.6,	-29.3,
19	16.8,	142.3,	278.5,	-145.4,	-31.2,	20	16.8,	183.0,	283.1,	-142.2,	-31.7,
21	16.8,	368.3,	347.4,	-286.0,	179.3,	22	16.8,	373.3,	365.8,	-324.7,	157.3,
23	16.8,	366.9,	373.0,	-353.6,	130.4,	24	16.8,	349.3,	368.9,	-371.7,	99.6,
25	16.8,	321.2,	353.6,	-378.5,	65.8,	26	16.8,	283.3,	327.6,	-373.8,	30.0,
27	16.8,	237.2,	291.6,	-357.8,	-7.0,	28	16.8,	279.9,	325.4,	-369.3,	-44.0,
29	16.8,	318.5,	352.2,	-372.1,	-79.3,	30	16.8,	347.4,	368.3,	-363.5,	-112.3,
31	16.8,	365.8,	373.3,	-343.9,	-141.8,	32	16.8,	373.0,	366.9,	-313.9,	-167.1,
33	16.8,	368.9,	349.3,	-274.3,	-187.2,	34	16.8,	183.2,	284.6,	-121.8,	23.6,
35	16.8,	143.0,	280.2,	-124.2,	26.9,	36	16.8,	98.4,	267.4,	-122.8,	29.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK253

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-129.1,	31.9,	2	16.8,	183.0,	283.1,	-137.0,	33.1,
3	16.8,	368.3,	347.4,	-57.9,	-177.3,	4	16.8,	373.3,	365.8,	-37.9,	-154.7,
5	16.8,	366.9,	373.0,	-16.8,	-127.3,	6	16.8,	349.3,	368.9,	4.8,	-96.1,
7	16.8,	321.2,	353.6,	26.2,	-62.0,	8	16.8,	280.2,	143.0,	-97.6,	19.9,
9	16.8,	267.4,	98.4,	-78.5,	15.0,	10	16.8,	278.5,	142.3,	-103.1,	10.2,
11	16.8,	318.5,	352.2,	18.5,	83.1,	12	16.8,	347.4,	368.3,	-6.9,	115.8,
13	16.8,	365.8,	373.3,	-32.0,	144.9,	14	16.8,	373.0,	366.9,	-56.1,	169.7,
15	16.8,	368.9,	349.3,	-78.6,	189.2,	16	16.8,	183.2,	284.6,	-166.6,	-22.2,
17	16.8,	143.0,	280.2,	-160.1,	-26.1,	18	16.8,	98.4,	267.4,	-148.7,	-29.3,
19	16.8,	142.3,	278.5,	-149.4,	-31.9,	20	16.8,	183.0,	283.1,	-146.1,	-33.1,
21	16.8,	368.3,	347.4,	-289.5,	177.3,	22	16.8,	373.3,	365.8,	-327.8,	154.7,
23	16.8,	366.9,	373.0,	-356.2,	127.3,	24	16.8,	349.3,	368.9,	-373.7,	96.1,
25	16.8,	321.2,	353.6,	-379.9,	62.0,	26	16.8,	283.3,	327.6,	-374.5,	26.0,
27	16.8,	237.2,	291.6,	-357.8,	-11.1,	28	16.8,	279.9,	325.4,	-368.6,	-48.0,
29	16.8,	318.5,	352.2,	-370.7,	-83.1,	30	16.8,	347.4,	368.3,	-361.5,	-115.8,
31	16.8,	365.8,	373.3,	-341.3,	-144.9,	32	16.8,	373.0,	366.9,	-310.8,	-169.7,
33	16.8,	368.9,	349.3,	-270.8,	-189.2,	34	16.8,	183.2,	284.6,	-118.0,	22.2,
35	16.8,	143.0,	280.2,	-120.2,	26.1,	36	16.8,	98.4,	267.4,	-118.7,	29.3,

SOURCE ID: STCK254

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-124.8,	32.7,	2	16.8,	183.0,	283.1,	-132.9,	34.6,
3	16.8,	368.3,	347.4,	-54.1,	-175.1,	4	16.8,	373.3,	365.8,	-34.6,	-151.9,
5	16.8,	366.9,	373.0,	-14.1,	-124.0,	6	16.8,	349.3,	368.9,	6.9,	-92.3,
7	16.8,	321.2,	353.6,	27.7,	-57.9,	8	16.8,	280.2,	143.0,	-96.9,	24.2,
9	16.8,	267.4,	98.4,	-78.5,	19.3,	10	16.8,	278.5,	142.3,	-103.8,	14.5,
11	16.8,	318.5,	352.2,	17.0,	87.2,	12	16.8,	347.4,	368.3,	-9.0,	119.6,
13	16.8,	365.8,	373.3,	-34.8,	148.3,	14	16.8,	373.0,	366.9,	-59.4,	172.5,
15	16.8,	368.9,	349.3,	-82.3,	191.4,	16	16.8,	183.2,	284.6,	-170.7,	-20.7,
17	16.8,	143.0,	280.2,	-164.3,	-25.4,	18	16.8,	98.4,	267.4,	-153.0,	-29.3,
19	16.8,	142.3,	278.5,	-153.7,	-32.7,	20	16.8,	183.0,	283.1,	-150.2,	-34.6,
21	16.8,	368.3,	347.4,	-293.3,	175.1,	22	16.8,	373.3,	365.8,	-331.1,	151.9,
23	16.8,	366.9,	373.0,	-359.0,	124.0,	24	16.8,	349.3,	368.9,	-375.9,	92.3,
25	16.8,	321.2,	353.6,	-381.4,	57.9,	26	16.8,	283.3,	327.6,	-375.3,	21.7,
27	16.8,	237.2,	291.6,	-357.8,	-15.4,	28	16.8,	279.9,	325.4,	-367.8,	-52.2,
29	16.8,	318.5,	352.2,	-369.2,	-87.2,	30	16.8,	347.4,	368.3,	-359.3,	-119.6,
31	16.8,	365.8,	373.3,	-338.5,	-148.3,	32	16.8,	373.0,	366.9,	-307.4,	-172.5,
33	16.8,	368.9,	349.3,	-267.0,	-191.4,	34	16.8,	183.2,	284.6,	-113.9,	20.7,
35	16.8,	143.0,	280.2,	-115.9,	25.4,	36	16.8,	98.4,	267.4,	-114.3,	29.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK255

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-121.2,	33.3,	2	16.8,	183.0,	283.1,	-129.5,	35.8,
3	16.8,	368.3,	347.4,	-51.0,	-173.3,	4	16.8,	373.3,	365.8,	-31.8,	-149.5,
5	16.8,	366.9,	373.0,	-11.7,	-121.2,	6	16.8,	349.3,	368.9,	8.8,	-89.2,
7	16.8,	321.2,	353.6,	29.0,	-54.5,	8	16.8,	280.2,	143.0,	-96.2,	27.8,
9	16.8,	267.4,	98.4,	-78.5,	23.0,	10	16.8,	278.5,	142.3,	-104.5,	18.1,
11	16.8,	318.5,	352.2,	15.7,	90.7,	12	16.8,	347.4,	368.3,	-10.9,	122.7,
13	16.8,	365.8,	373.3,	-37.1,	151.1,	14	16.8,	373.0,	366.9,	-62.2,	174.8,
15	16.8,	217.9,	280.2,	-174.9,	-13.6,	16	16.8,	183.2,	284.6,	-174.1,	-19.5,
17	16.8,	143.0,	280.2,	-167.9,	-24.8,	18	16.8,	98.4,	267.4,	-156.7,	-29.3,
19	16.8,	142.3,	278.5,	-157.3,	-33.3,	20	16.8,	183.0,	283.1,	-153.6,	-35.8,
21	16.8,	368.3,	347.4,	-296.4,	173.3,	22	16.8,	373.3,	365.8,	-333.9,	149.5,
23	16.8,	366.9,	373.0,	-361.3,	121.2,	24	16.8,	349.3,	368.9,	-377.7,	89.2,
25	16.8,	321.2,	353.6,	-382.6,	54.5,	26	16.8,	283.3,	327.6,	-375.9,	18.1,
27	16.8,	237.2,	291.6,	-357.8,	-19.1,	28	16.8,	279.9,	325.4,	-367.2,	-55.8,
29	16.8,	318.5,	352.2,	-367.9,	-90.7,	30	16.8,	347.4,	368.3,	-357.5,	-122.7,
31	16.8,	365.8,	373.3,	-336.2,	-151.1,	32	16.8,	373.0,	366.9,	-304.6,	-174.8,
33	16.8,	217.9,	280.2,	-105.3,	13.6,	34	16.8,	183.2,	284.6,	-110.5,	19.5,
35	16.8,	143.0,	280.2,	-112.3,	24.8,	36	16.8,	98.4,	267.4,	-110.7,	29.3,

SOURCE ID: STCK256

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-117.4,	34.0,	2	16.8,	183.0,	283.1,	-125.9,	37.1,
3	16.8,	368.3,	347.4,	-47.7,	-171.4,	4	16.8,	373.3,	365.8,	-28.9,	-147.1,
5	16.8,	366.9,	373.0,	-9.3,	-118.3,	6	16.8,	349.3,	368.9,	10.7,	-85.9,
7	16.8,	321.2,	353.6,	30.3,	-50.9,	8	16.8,	280.2,	143.0,	-95.6,	31.6,
9	16.8,	267.4,	98.4,	-78.5,	26.8,	10	16.8,	278.5,	142.3,	-105.1,	21.8,
11	16.8,	318.5,	352.2,	14.4,	94.2,	12	16.8,	347.4,	368.3,	-12.8,	126.0,
13	16.8,	365.8,	373.3,	-39.6,	154.0,	14	16.8,	373.0,	366.9,	-65.2,	177.2,
15	16.8,	217.9,	280.2,	-178.2,	-11.7,	16	16.8,	183.2,	284.6,	-177.7,	-18.2,
17	16.8,	143.0,	280.2,	-171.7,	-24.1,	18	16.8,	98.4,	267.4,	-160.5,	-29.3,
19	16.8,	142.3,	278.5,	-161.0,	-34.0,	20	16.8,	183.0,	283.1,	-157.2,	-37.1,
21	16.8,	368.3,	347.4,	-299.7,	171.4,	22	16.8,	373.3,	365.8,	-336.9,	147.1,
23	16.8,	366.9,	373.0,	-363.8,	118.3,	24	16.8,	349.3,	368.9,	-379.6,	85.9,
25	16.8,	321.2,	353.6,	-383.9,	50.9,	26	16.8,	283.3,	327.6,	-376.6,	14.3,
27	16.8,	237.2,	291.6,	-357.8,	-22.9,	28	16.8,	279.9,	325.4,	-366.5,	-59.6,
29	16.8,	318.5,	352.2,	-366.6,	-94.2,	30	16.8,	347.4,	368.3,	-355.6,	-126.0,
31	16.8,	365.8,	373.3,	-333.7,	-154.0,	32	16.8,	373.0,	366.9,	-301.7,	-177.2,
33	16.8,	217.9,	280.2,	-102.0,	11.7,	34	16.8,	183.2,	284.6,	-106.9,	18.2,
35	16.8,	143.0,	280.2,	-108.5,	24.1,	36	16.8,	98.4,	267.4,	-106.9,	29.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK257

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-113.4,	34.7,	2	16.8,	183.0,	283.1,	-122.1,	38.5,
3	16.8,	368.3,	347.4,	-44.2,	-169.4,	4	16.8,	373.3,	365.8,	-25.8,	-144.5,
5	16.8,	366.9,	373.0,	-6.6,	-115.2,	6	16.8,	349.3,	368.9,	12.7,	-82.4,
7	16.8,	321.2,	353.6,	31.7,	-47.1,	8	16.8,	280.2,	143.0,	-94.9,	35.6,
9	16.8,	267.4,	98.4,	-78.5,	30.9,	10	16.8,	278.5,	142.3,	-105.8,	25.8,
11	16.8,	318.5,	352.2,	13.0,	98.0,	12	16.8,	347.4,	368.3,	-14.8,	129.5,
13	16.8,	365.8,	373.3,	-42.2,	157.1,	14	16.8,	373.0,	366.9,	-68.3,	179.9,
15	16.8,	217.9,	280.2,	-181.7,	-9.7,	16	16.8,	183.2,	284.6,	-181.5,	-16.8,
17	16.8,	143.0,	280.2,	-175.7,	-23.4,	18	16.8,	98.4,	267.4,	-164.6,	-29.3,
19	16.8,	142.3,	278.5,	-165.0,	-34.7,	20	16.8,	183.0,	283.1,	-161.0,	-38.5,
21	16.8,	368.3,	347.4,	-303.2,	169.4,	22	16.8,	373.3,	365.8,	-340.0,	144.5,
23	16.8,	366.9,	373.0,	-366.4,	115.2,	24	16.8,	349.3,	368.9,	-381.6,	82.4,
25	16.8,	321.2,	353.6,	-385.3,	47.1,	26	16.8,	283.3,	327.6,	-377.3,	10.3,
27	16.8,	237.2,	291.6,	-357.8,	-26.9,	28	16.8,	279.9,	325.4,	-365.8,	-63.6,
29	16.8,	318.5,	352.2,	-365.2,	-98.0,	30	16.8,	347.4,	368.3,	-353.5,	-129.5,
31	16.8,	365.8,	373.3,	-331.1,	-157.1,	32	16.8,	373.0,	366.9,	-298.6,	-179.9,
33	16.8,	217.9,	280.2,	-98.5,	9.7,	34	16.8,	183.2,	284.6,	-103.1,	16.8,
35	16.8,	143.0,	280.2,	-104.5,	23.4,	36	16.8,	98.4,	267.4,	-102.8,	29.3,

SOURCE ID: STCK258

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-105.3,	36.1,	2	16.8,	183.0,	283.1,	-114.3,	41.4,
3	16.8,	368.3,	347.4,	-37.0,	-165.2,	4	16.8,	373.3,	365.8,	-19.5,	-139.1,
5	16.8,	366.9,	373.0,	-1.3,	-108.8,	6	16.8,	349.3,	368.9,	16.8,	-75.2,
7	16.8,	284.6,	183.2,	-105.6,	47.0,	8	16.8,	280.2,	143.0,	-93.4,	43.7,
9	16.8,	267.4,	98.4,	-78.5,	39.1,	10	16.8,	278.5,	142.3,	-107.3,	33.9,
11	16.8,	318.5,	352.2,	10.2,	105.8,	12	16.8,	347.4,	368.3,	-18.9,	136.7,
13	16.8,	365.8,	373.3,	-47.5,	163.4,	14	16.8,	373.0,	366.9,	-74.6,	185.2,
15	16.8,	217.9,	280.2,	-188.9,	-5.5,	16	16.8,	183.2,	284.6,	-189.2,	-14.0,
17	16.8,	143.0,	280.2,	-183.8,	-21.9,	18	16.8,	98.4,	267.4,	-172.8,	-29.3,
19	16.8,	142.3,	278.5,	-173.2,	-36.1,	20	16.8,	183.0,	283.1,	-168.8,	-41.4,
21	16.8,	368.3,	347.4,	-310.4,	165.2,	22	16.8,	373.3,	365.8,	-346.3,	139.1,
23	16.8,	366.9,	373.0,	-371.7,	108.8,	24	16.8,	349.3,	368.9,	-385.8,	75.2,
25	16.8,	321.2,	353.6,	-388.1,	39.3,	26	16.8,	283.3,	327.6,	-378.7,	2.2,
27	16.8,	237.2,	291.6,	-357.8,	-35.2,	28	16.8,	279.9,	325.4,	-364.4,	-71.7,
29	16.8,	318.5,	352.2,	-362.4,	-105.8,	30	16.8,	347.4,	368.3,	-349.4,	-136.7,
31	16.8,	365.8,	373.3,	-325.8,	-163.4,	32	16.8,	373.0,	366.9,	-292.3,	-185.2,
33	16.8,	217.9,	280.2,	-91.3,	5.5,	34	16.8,	183.2,	284.6,	-95.3,	14.0,
35	16.8,	143.0,	280.2,	-96.4,	21.9,	36	16.8,	98.4,	267.4,	-94.5,	29.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK259

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-101.3,	36.8,	2	16.8,	183.0,	283.1,	-110.5,	42.8,
3	16.8,	368.3,	347.4,	-33.5,	-163.2,	4	16.8,	373.3,	365.8,	-16.3,	-136.5,
5	16.8,	366.9,	373.0,	1.3,	-105.7,	6	16.8,	349.3,	368.9,	18.9,	-71.7,
7	16.8,	284.6,	183.2,	-104.2,	50.8,	8	16.8,	280.2,	143.0,	-92.7,	47.7,
9	16.8,	267.4,	98.4,	-78.5,	43.2,	10	16.8,	278.5,	142.3,	-108.0,	38.0,
11	16.8,	318.5,	352.2,	8.8,	109.7,	12	16.8,	347.4,	368.3,	-21.0,	140.2,
13	16.8,	365.8,	373.3,	-50.1,	166.5,	14	16.8,	373.0,	366.9,	-77.7,	187.8,
15	16.8,	217.9,	280.2,	-192.4,	-3.5,	16	16.8,	183.2,	284.6,	-193.1,	-12.6,
17	16.8,	143.0,	280.2,	-187.9,	-21.2,	18	16.8,	98.4,	267.4,	-176.9,	-29.3,
19	16.8,	142.3,	278.5,	-177.2,	-36.8,	20	16.8,	183.0,	283.1,	-172.6,	-42.8,
21	16.8,	368.3,	347.4,	-313.9,	163.2,	22	16.8,	373.3,	365.8,	-349.4,	136.5,
23	16.8,	366.9,	373.0,	-374.3,	105.7,	24	16.8,	349.3,	368.9,	-387.8,	71.7,
25	16.8,	321.2,	353.6,	-389.5,	35.5,	26	16.8,	283.3,	327.6,	-379.4,	-1.8,
27	16.8,	237.2,	291.6,	-357.8,	-39.3,	28	16.8,	279.9,	325.4,	-363.7,	-75.8,
29	16.8,	318.5,	352.2,	-361.0,	-109.7,	30	16.8,	347.4,	368.3,	-347.4,	-140.2,
31	16.8,	365.8,	373.3,	-323.2,	-166.5,	32	16.8,	373.0,	366.9,	-289.2,	-187.8,
33	16.8,	217.9,	280.2,	-87.8,	3.5,	34	16.8,	183.2,	284.6,	-91.5,	12.6,
35	16.8,	143.0,	280.2,	-92.4,	21.2,	36	16.8,	98.4,	267.4,	-90.5,	29.3,

SOURCE ID: STCK260

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-97.4,	37.5,	2	16.8,	352.2,	318.5,	-45.9,	-183.6,
3	16.8,	368.3,	347.4,	-30.1,	-161.2,	4	16.8,	373.3,	365.8,	-13.3,	-134.0,
5	16.8,	366.9,	373.0,	3.8,	-102.7,	6	16.8,	349.3,	368.9,	20.8,	-68.3,
7	16.8,	284.6,	183.2,	-102.8,	54.5,	8	16.8,	280.2,	143.0,	-92.0,	51.6,
9	16.8,	267.4,	98.4,	-78.5,	47.1,	10	16.8,	278.5,	142.3,	-108.7,	41.8,
11	16.8,	318.5,	352.2,	7.5,	113.3,	12	16.8,	347.4,	368.3,	-22.9,	143.6,
13	16.8,	365.8,	373.3,	-52.6,	169.6,	14	16.8,	373.0,	366.9,	-80.8,	190.3,
15	16.8,	217.9,	280.2,	-195.8,	-1.5,	16	16.8,	183.2,	284.6,	-196.8,	-11.2,
17	16.8,	143.0,	280.2,	-191.7,	-20.6,	18	16.8,	98.4,	267.4,	-180.8,	-29.3,
19	16.8,	142.3,	278.5,	-181.1,	-37.5,	20	16.8,	352.2,	318.5,	-272.6,	183.6,
21	16.8,	368.3,	347.4,	-317.3,	161.2,	22	16.8,	373.3,	365.8,	-352.4,	134.0,
23	16.8,	366.9,	373.0,	-376.8,	102.7,	24	16.8,	349.3,	368.9,	-389.8,	68.3,
25	16.8,	321.2,	353.6,	-390.9,	31.8,	26	16.8,	283.3,	327.6,	-380.1,	-5.7,
27	16.8,	237.2,	291.6,	-357.8,	-43.2,	28	16.8,	279.9,	325.4,	-363.0,	-79.6,
29	16.8,	318.5,	352.2,	-359.7,	-113.3,	30	16.8,	347.4,	368.3,	-345.4,	-143.6,
31	16.8,	365.8,	373.3,	-320.6,	-169.6,	32	16.8,	373.0,	366.9,	-286.1,	-190.3,
33	16.8,	217.9,	280.2,	-84.4,	1.5,	34	16.8,	183.2,	284.6,	-87.8,	11.2,
35	16.8,	143.0,	280.2,	-88.5,	20.6,	36	16.8,	98.4,	267.4,	-86.5,	29.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK261

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-93.1,	38.3,	2	16.8,	352.2,	318.5,	-41.8,	-182.1,
3	16.8,	368.3,	347.4,	-26.3,	-159.1,	4	16.8,	373.3,	365.8,	-10.0,	-131.2,
5	16.8,	366.9,	373.0,	6.6,	-99.4,	6	16.8,	349.3,	368.9,	23.0,	-64.5,
7	16.8,	284.6,	183.2,	-101.3,	58.6,	8	16.8,	280.2,	143.0,	-91.3,	55.9,
9	16.8,	267.4,	98.4,	-78.5,	51.5,	10	16.8,	278.5,	142.3,	-109.4,	46.1,
11	16.8,	318.5,	352.2,	6.0,	117.4,	12	16.8,	347.4,	368.3,	-25.1,	147.4,
13	16.8,	365.8,	373.3,	-55.4,	172.9,	14	16.8,	373.0,	366.9,	-84.1,	193.1,
15	16.8,	217.9,	280.2,	-199.6,	0.6,	16	16.8,	183.2,	284.6,	-200.9,	-9.7,
17	16.8,	143.0,	280.2,	-196.0,	-19.8,	18	16.8,	98.4,	267.4,	-185.2,	-29.3,
19	16.8,	142.3,	278.5,	-185.3,	-38.3,	20	16.8,	352.2,	318.5,	-276.7,	182.1,
21	16.8,	368.3,	347.4,	-321.1,	159.1,	22	16.8,	373.3,	365.8,	-355.8,	131.2,
23	16.8,	366.9,	373.0,	-379.6,	99.4,	24	16.8,	349.3,	368.9,	-391.9,	64.5,
25	16.8,	321.2,	353.6,	-392.4,	27.7,	26	16.8,	283.3,	327.6,	-380.9,	-10.0,
27	16.8,	237.2,	291.6,	-357.8,	-47.6,	28	16.8,	279.9,	325.4,	-362.2,	-83.9,
29	16.8,	318.5,	352.2,	-358.2,	-117.4,	30	16.8,	347.4,	368.3,	-343.2,	-147.4,
31	16.8,	365.8,	373.3,	-317.9,	-172.9,	32	16.8,	373.0,	366.9,	-282.8,	-193.1,
33	16.8,	217.9,	280.2,	-80.6,	-0.6,	34	16.8,	183.2,	284.6,	-83.7,	9.7,
35	16.8,	143.0,	280.2,	-84.2,	19.8,	36	16.8,	98.4,	267.4,	-82.2,	29.3,

SOURCE ID: STCK262

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-89.9,	38.8,	2	16.8,	352.2,	318.5,	-38.8,	-181.0,
3	16.8,	368.3,	347.4,	-23.5,	-157.4,	4	16.8,	373.3,	365.8,	-7.5,	-129.1,
5	16.8,	366.9,	373.0,	8.7,	-96.9,	6	16.8,	349.3,	368.9,	24.6,	-61.7,
7	16.8,	284.6,	183.2,	-100.2,	61.6,	8	16.8,	280.2,	143.0,	-90.7,	59.1,
9	16.8,	267.4,	98.4,	-78.5,	54.7,	10	16.8,	278.5,	142.3,	-110.0,	49.3,
11	16.8,	318.5,	352.2,	4.9,	120.5,	12	16.8,	347.4,	368.3,	-26.7,	150.2,
13	16.8,	365.8,	373.3,	-57.5,	175.4,	14	16.8,	246.0,	267.4,	-194.8,	13.1,
15	16.8,	217.9,	280.2,	-202.4,	2.3,	16	16.8,	183.2,	284.6,	-203.9,	-8.6,
17	16.8,	143.0,	280.2,	-199.2,	-19.2,	18	16.8,	98.4,	267.4,	-188.4,	-29.3,
19	16.8,	142.3,	278.5,	-188.6,	-38.8,	20	16.8,	352.2,	318.5,	-279.7,	181.0,
21	16.8,	368.3,	347.4,	-323.9,	157.4,	22	16.8,	373.3,	365.8,	-358.3,	129.1,
23	16.8,	366.9,	373.0,	-381.7,	96.9,	24	16.8,	349.3,	368.9,	-393.6,	61.7,
25	16.8,	321.2,	353.6,	-393.5,	24.6,	26	16.8,	283.3,	327.6,	-381.4,	-13.2,
27	16.8,	237.2,	291.6,	-357.8,	-50.8,	28	16.8,	279.9,	325.4,	-361.7,	-87.1,
29	16.8,	318.5,	352.2,	-357.1,	-120.5,	30	16.8,	347.4,	368.3,	-341.6,	-150.2,
31	16.8,	365.8,	373.3,	-315.8,	-175.4,	32	16.8,	246.0,	267.4,	-72.6,	-13.1,
33	16.8,	217.9,	280.2,	-77.8,	-2.3,	34	16.8,	183.2,	284.6,	-80.7,	8.6,
35	16.8,	143.0,	280.2,	-81.0,	19.2,	36	16.8,	98.4,	267.4,	-79.0,	29.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK263

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-86.7,	39.4,	2	16.8,	352.2,	318.5,	-35.7,	-179.9,
3	16.8,	368.3,	347.4,	-20.7,	-155.8,	4	16.8,	373.3,	365.8,	-5.0,	-127.0,
5	16.8,	366.9,	373.0,	10.8,	-94.4,	6	16.8,	349.3,	368.9,	26.3,	-58.9,
7	16.8,	284.6,	183.2,	-99.1,	64.7,	8	16.8,	280.2,	143.0,	-90.2,	62.3,
9	16.8,	267.4,	98.4,	-78.5,	58.0,	10	16.8,	278.5,	142.3,	-110.5,	52.5,
11	16.8,	318.5,	352.2,	3.8,	123.5,	12	16.8,	347.4,	368.3,	-28.4,	153.0,
13	16.8,	365.8,	373.3,	-59.6,	177.9,	14	16.8,	246.0,	267.4,	-197.3,	15.2,
15	16.8,	217.9,	280.2,	-205.2,	3.9,	16	16.8,	183.2,	284.6,	-207.0,	-7.5,
17	16.8,	143.0,	280.2,	-202.4,	-18.7,	18	16.8,	98.4,	267.4,	-191.7,	-29.3,
19	16.8,	142.3,	278.5,	-191.8,	-39.4,	20	16.8,	352.2,	318.5,	-282.8,	179.9,
21	16.8,	368.3,	347.4,	-326.7,	155.8,	22	16.8,	373.3,	365.8,	-360.8,	127.0,
23	16.8,	366.9,	373.0,	-383.8,	94.4,	24	16.8,	349.3,	368.9,	-395.2,	58.9,
25	16.8,	321.2,	353.6,	-394.6,	21.6,	26	16.8,	283.3,	327.6,	-382.0,	-16.4,
27	16.8,	237.2,	291.6,	-357.8,	-54.1,	28	16.8,	279.9,	325.4,	-361.1,	-90.3,
29	16.8,	318.5,	352.2,	-356.0,	-123.5,	30	16.8,	347.4,	368.3,	-340.0,	-153.0,
31	16.8,	365.8,	373.3,	-313.7,	-177.9,	32	16.8,	246.0,	267.4,	-70.1,	-15.2,
33	16.8,	217.9,	280.2,	-75.0,	-3.9,	34	16.8,	183.2,	284.6,	-77.6,	7.5,
35	16.8,	143.0,	280.2,	-77.8,	18.7,	36	16.8,	98.4,	267.4,	-75.7,	29.3,

SOURCE ID: STCK264

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-82.7,	40.1,	2	16.8,	352.2,	318.5,	-31.9,	-178.5,
3	16.8,	368.3,	347.4,	-17.1,	-153.8,	4	16.8,	373.3,	365.8,	-1.9,	-124.4,
5	16.8,	366.9,	373.0,	13.4,	-91.3,	6	16.8,	349.3,	368.9,	28.3,	-55.3,
7	16.8,	284.6,	183.2,	-97.7,	68.5,	8	16.8,	280.2,	143.0,	-89.5,	66.3,
9	16.8,	267.4,	98.4,	-78.5,	62.1,	10	16.8,	278.5,	142.3,	-111.3,	56.5,
11	16.8,	318.5,	352.2,	2.4,	127.4,	12	16.8,	347.4,	368.3,	-30.4,	156.6,
13	16.8,	365.8,	373.3,	-62.2,	181.0,	14	16.8,	246.0,	267.4,	-200.4,	17.8,
15	16.8,	217.9,	280.2,	-208.8,	5.9,	16	16.8,	183.2,	284.6,	-210.8,	-6.1,
17	16.8,	143.0,	280.2,	-206.4,	-18.0,	18	16.8,	98.4,	267.4,	-195.8,	-29.3,
19	16.8,	142.3,	278.5,	-195.8,	-40.1,	20	16.8,	352.2,	318.5,	-286.6,	178.5,
21	16.8,	368.3,	347.4,	-330.2,	153.8,	22	16.8,	373.3,	365.8,	-363.9,	124.4,
23	16.8,	366.9,	373.0,	-386.4,	91.3,	24	16.8,	349.3,	368.9,	-397.2,	55.3,
25	16.8,	321.2,	353.6,	-396.0,	17.8,	26	16.8,	283.3,	327.6,	-382.7,	-20.4,
27	16.8,	237.2,	291.6,	-357.8,	-58.1,	28	16.8,	279.9,	325.4,	-360.4,	-94.3,
29	16.8,	318.5,	352.2,	-354.6,	-127.4,	30	16.8,	347.4,	368.3,	-337.9,	-156.6,
31	16.8,	365.8,	373.3,	-311.1,	-181.0,	32	16.8,	246.0,	267.4,	-67.0,	-17.8,
33	16.8,	217.9,	280.2,	-71.5,	-5.9,	34	16.8,	183.2,	284.6,	-73.8,	6.1,
35	16.8,	143.0,	280.2,	-73.8,	18.0,	36	16.8,	98.4,	267.4,	-71.6,	29.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK265

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-73.2,	41.8,	2	16.8,	352.2,	318.5,	-22.8,	-175.2,
3	16.8,	368.3,	347.4,	-8.8,	-149.0,	4	16.8,	373.3,	365.8,	5.5,	-118.2,
5	16.8,	366.9,	373.0,	19.6,	-83.9,	6	16.8,	349.3,	368.9,	33.1,	-47.0,
7	16.8,	284.6,	183.2,	-94.4,	77.5,	8	16.8,	280.2,	143.0,	-87.8,	75.8,
9	16.8,	267.4,	98.4,	-78.5,	71.7,	10	16.8,	279.9,	325.4,	33.4,	103.8,
11	16.8,	318.5,	352.2,	-0.9,	136.4,	12	16.8,	347.4,	368.3,	-35.2,	164.9,
13	16.8,	365.8,	373.3,	-68.4,	188.4,	14	16.8,	246.0,	267.4,	-207.8,	24.0,
15	16.8,	217.9,	280.2,	-217.1,	10.7,	16	16.8,	183.2,	284.6,	-219.8,	-2.8,
17	16.8,	143.0,	280.2,	-215.9,	-16.3,	18	16.8,	98.4,	267.4,	-205.4,	-29.3,
19	16.8,	142.3,	278.5,	-205.2,	-41.8,	20	16.8,	352.2,	318.5,	-295.7,	175.2,
21	16.8,	368.3,	347.4,	-338.6,	149.0,	22	16.8,	373.3,	365.8,	-371.2,	118.2,
23	16.8,	366.9,	373.0,	-392.6,	83.9,	24	16.8,	349.3,	368.9,	-402.1,	47.0,
25	16.8,	321.2,	353.6,	-399.3,	8.7,	26	16.8,	283.3,	327.6,	-384.4,	-29.9,
27	16.8,	237.2,	291.6,	-357.8,	-67.8,	28	16.8,	279.9,	325.4,	-358.7,	-103.8,
29	16.8,	318.5,	352.2,	-351.3,	-136.4,	30	16.8,	347.4,	368.3,	-333.1,	-164.9,
31	16.8,	365.8,	373.3,	-304.9,	-188.4,	32	16.8,	246.0,	267.4,	-59.6,	-24.0,
33	16.8,	217.9,	280.2,	-63.1,	-10.7,	34	16.8,	183.2,	284.6,	-64.7,	2.8,
35	16.8,	143.0,	280.2,	-64.3,	16.3,	36	16.8,	98.4,	267.4,	-62.0,	29.3,

SOURCE ID: STCK266

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-69.5,	42.4,	2	16.8,	352.2,	318.5,	-19.2,	-173.9,
3	16.8,	368.3,	347.4,	-5.5,	-147.1,	4	16.8,	373.3,	365.8,	8.4,	-115.8,
5	16.8,	366.9,	373.0,	22.0,	-81.0,	6	16.8,	280.2,	217.9,	-96.3,	80.3,
7	16.8,	284.6,	183.2,	-93.1,	81.1,	8	16.8,	280.2,	143.0,	-87.1,	79.5,
9	16.8,	267.4,	98.4,	-78.5,	75.5,	10	16.8,	279.9,	325.4,	32.7,	107.5,
11	16.8,	318.5,	352.2,	-2.2,	140.0,	12	16.8,	347.4,	368.3,	-37.1,	168.2,
13	16.8,	266.6,	246.5,	-194.6,	39.4,	14	16.8,	246.0,	267.4,	-210.7,	26.4,
15	16.8,	217.9,	280.2,	-220.4,	12.6,	16	16.8,	183.2,	284.6,	-223.4,	-1.5,
17	16.8,	143.0,	280.2,	-219.6,	-15.6,	18	16.8,	98.4,	267.4,	-209.2,	-29.3,
19	16.8,	142.3,	278.5,	-209.0,	-42.4,	20	16.8,	352.2,	318.5,	-299.2,	173.9,
21	16.8,	368.3,	347.4,	-341.9,	147.1,	22	16.8,	373.3,	365.8,	-374.2,	115.8,
23	16.8,	366.9,	373.0,	-395.1,	81.0,	24	16.8,	349.3,	368.9,	-403.9,	43.7,
25	16.8,	321.2,	353.6,	-400.6,	5.1,	26	16.8,	283.3,	327.6,	-385.0,	-33.6,
27	16.8,	237.2,	291.6,	-357.8,	-71.6,	28	16.8,	279.9,	325.4,	-358.1,	-107.5,
29	16.8,	318.5,	352.2,	-350.0,	-140.0,	30	16.8,	347.4,	368.3,	-331.2,	-168.2,
31	16.8,	266.6,	246.5,	-51.9,	-39.4,	32	16.8,	246.0,	267.4,	-56.7,	-26.4,
33	16.8,	217.9,	280.2,	-59.9,	-12.6,	34	16.8,	183.2,	284.6,	-61.2,	1.5,
35	16.8,	143.0,	280.2,	-60.6,	15.6,	36	16.8,	98.4,	267.4,	-58.2,	29.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

SOURCE ID: STCK267

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-65.8,	43.1,	2	16.8,	352.2,	318.5,	-15.7,	-172.6,
3	16.8,	368.3,	347.4,	-2.2,	-145.2,	4	16.8,	373.3,	365.8,	11.3,	-113.3,
5	16.8,	366.9,	373.0,	24.5,	-78.1,	6	16.8,	280.2,	217.9,	-94.4,	83.5,
7	16.8,	284.6,	183.2,	-91.8,	84.7,	8	16.8,	280.2,	143.0,	-86.5,	83.2,
9	16.8,	267.4,	98.4,	-78.5,	79.3,	10	16.8,	279.9,	325.4,	32.1,	111.3,
11	16.8,	318.5,	352.2,	-3.5,	143.6,	12	16.8,	347.4,	368.3,	-39.0,	171.5,
13	16.8,	266.6,	246.5,	-197.0,	42.3,	14	16.8,	246.0,	267.4,	-213.6,	28.9,
15	16.8,	217.9,	280.2,	-223.7,	14.5,	16	16.8,	183.2,	284.6,	-227.0,	-0.2,
17	16.8,	143.0,	280.2,	-223.4,	-15.0,	18	16.8,	98.4,	267.4,	-213.0,	-29.3,
19	16.8,	142.3,	278.5,	-212.7,	-43.1,	20	16.8,	352.2,	318.5,	-302.8,	172.6,
21	16.8,	368.3,	347.4,	-345.2,	145.2,	22	16.8,	373.3,	365.8,	-377.1,	113.3,
23	16.8,	366.9,	373.0,	-397.5,	78.1,	24	16.8,	349.3,	368.9,	-405.9,	40.4,
25	16.8,	321.2,	353.6,	-401.9,	1.6,	26	16.8,	283.3,	327.6,	-385.7,	-37.3,
27	16.8,	237.2,	291.6,	-357.8,	-75.4,	28	16.8,	279.9,	325.4,	-357.4,	-111.3,
29	16.8,	318.5,	352.2,	-348.7,	-143.6,	30	16.8,	347.4,	368.3,	-329.3,	-171.5,
31	16.8,	266.6,	246.5,	-49.5,	-42.3,	32	16.8,	246.0,	267.4,	-53.8,	-28.9,
33	16.8,	217.9,	280.2,	-56.6,	-14.5,	34	16.8,	183.2,	284.6,	-57.6,	0.2,
35	16.8,	143.0,	280.2,	-56.9,	15.0,	36	16.8,	98.4,	267.4,	-54.4,	29.3,

SOURCE ID: STCK268

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-61.2,	43.9,	2	16.8,	352.2,	318.5,	-11.4,	-171.0,
3	16.8,	368.3,	347.4,	1.8,	-142.9,	4	16.8,	373.3,	365.8,	14.8,	-110.4,
5	16.8,	366.9,	373.0,	27.4,	-74.5,	6	16.8,	280.2,	217.9,	-92.1,	87.5,
7	16.8,	284.6,	183.2,	-90.2,	89.0,	8	16.8,	280.2,	143.0,	-85.7,	87.8,
9	16.8,	267.4,	98.4,	-78.5,	83.9,	10	16.8,	279.9,	325.4,	31.3,	115.8,
11	16.8,	318.5,	352.2,	-5.1,	147.9,	12	16.8,	347.4,	368.3,	-41.3,	175.5,
13	16.8,	266.6,	246.5,	-200.0,	45.8,	14	16.8,	246.0,	267.4,	-217.1,	31.8,
15	16.8,	217.9,	280.2,	-227.7,	16.8,	16	16.8,	183.2,	284.6,	-231.3,	1.4,
17	16.8,	143.0,	280.2,	-227.9,	-14.2,	18	16.8,	98.4,	267.4,	-217.6,	-29.3,
19	16.8,	142.3,	278.5,	-217.3,	-43.9,	20	16.8,	352.2,	318.5,	-307.1,	171.0,
21	16.8,	368.3,	347.4,	-349.2,	142.9,	22	16.8,	373.3,	365.8,	-380.6,	110.4,
23	16.8,	366.9,	373.0,	-400.5,	74.5,	24	16.8,	349.3,	368.9,	-408.2,	36.4,
25	16.8,	321.2,	353.6,	-403.4,	-2.8,	26	16.8,	283.3,	327.6,	-386.5,	-41.9,
27	16.8,	237.2,	291.6,	-357.8,	-80.0,	28	16.8,	279.9,	325.4,	-356.6,	-115.8,
29	16.8,	318.5,	352.2,	-347.1,	-147.9,	30	16.8,	347.4,	368.3,	-327.0,	-175.5,
31	16.8,	266.6,	246.5,	-46.5,	-45.8,	32	16.8,	246.0,	267.4,	-50.3,	-31.8,
33	16.8,	217.9,	280.2,	-52.6,	-16.8,	34	16.8,	183.2,	284.6,	-53.2,	-1.4,
35	16.8,	143.0,	280.2,	-52.3,	14.2,	36	16.8,	98.4,	267.4,	-49.8,	29.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK269

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	16.8,	142.3,	278.5,	-58.0,	44.5,	2	16.8,	352.2,	318.5,	-8.3,	-169.9,
3	16.8,	368.3,	347.4,	4.6,	-141.2,	4	16.8,	373.3,	365.8,	17.3,	-108.3,
5	16.8,	366.9,	373.0,	29.5,	-72.0,	6	16.8,	280.2,	217.9,	-90.5,	90.4,
7	16.8,	284.6,	183.2,	-89.1,	92.1,	8	16.8,	280.2,	143.0,	-85.1,	91.0,
9	16.8,	267.4,	98.4,	-78.5,	87.1,	10	16.8,	279.9,	325.4,	30.7,	119.0,
11	16.8,	318.5,	352.2,	-6.2,	151.0,	12	16.8,	347.4,	368.3,	-42.9,	178.3,
13	16.8,	266.6,	246.5,	-202.1,	48.3,	14	16.8,	246.0,	267.4,	-219.6,	33.9,
15	16.8,	217.9,	280.2,	-230.5,	18.5,	16	16.8,	183.2,	284.6,	-234.4,	2.5,
17	16.8,	143.0,	280.2,	-231.1,	-13.6,	18	16.8,	98.4,	267.4,	-220.9,	-29.3,
19	16.8,	142.3,	278.5,	-220.5,	-44.5,	20	16.8,	352.2,	318.5,	-310.2,	169.9,
21	16.8,	368.3,	347.4,	-352.0,	141.2,	22	16.8,	373.3,	365.8,	-383.1,	108.3,
23	16.8,	366.9,	373.0,	-402.6,	72.0,	24	16.8,	349.3,	368.9,	-409.8,	33.6,
25	16.8,	321.2,	353.6,	-404.6,	-5.8,	26	16.8,	283.3,	327.6,	-387.1,	-45.1,
27	16.8,	237.2,	291.6,	-357.8,	-83.2,	28	16.8,	279.9,	325.4,	-356.1,	-119.0,
29	16.8,	318.5,	352.2,	-346.0,	-151.0,	30	16.8,	347.4,	368.3,	-325.4,	-178.3,
31	16.8,	266.6,	246.5,	-44.4,	-48.3,	32	16.8,	246.0,	267.4,	-47.8,	-33.9,
33	16.8,	217.9,	280.2,	-49.8,	-18.5,	34	16.8,	183.2,	284.6,	-50.2,	-2.5,
35	16.8,	143.0,	280.2,	-49.1,	13.6,	36	16.8,	98.4,	267.4,	-46.5,	29.3,

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(440317.4,	3761294.8,	203.5,	203.5,	0.0);	(440261.0,	3761292.4,	203.4,	203.4,	0.0);
(440398.0,	3761494.0,	205.2,	205.2,	0.0);	(440614.9,	3761227.6,	203.2,	203.2,	0.0);
(439941.6,	3761385.8,	203.5,	203.5,	0.0);	(439929.0,	3761521.0,	205.0,	205.0,	0.0);
(439827.0,	3764466.0,	237.2,	237.2,	0.0);	(439786.2,	3763658.9,	227.9,	227.9,	0.0);
(439798.9,	3763561.5,	227.2,	227.2,	0.0);	(439816.7,	3763525.1,	226.9,	226.9,	0.0);
(439971.0,	3763658.0,	229.0,	229.0,	0.0);	(439932.0,	3761956.0,	209.3,	209.3,	0.0);
(439934.0,	3762027.0,	209.9,	209.9,	0.0);	(439948.0,	3761713.0,	206.8,	206.8,	0.0);
(439931.0,	3762098.0,	210.4,	210.4,	0.0);	(439933.0,	3762574.0,	216.1,	216.1,	0.0);
(439941.0,	3762651.0,	217.3,	217.3,	0.0);	(439864.0,	3764019.0,	231.9,	231.9,	0.0);
(439808.0,	3764030.0,	231.7,	231.7,	0.0);	(439863.0,	3764084.0,	232.8,	232.8,	0.0);
(439867.0,	3764136.0,	233.7,	233.7,	0.0);	(439867.0,	3764172.0,	234.3,	234.3,	0.0);
(439867.0,	3764199.0,	234.8,	234.8,	0.0);	(439864.0,	3764232.0,	235.3,	235.3,	0.0);
(440436.4,	3765786.2,	254.5,	259.5,	0.0);	(440476.4,	3765786.2,	254.8,	259.4,	0.0);
(440516.4,	3765786.2,	255.0,	259.3,	0.0);	(439795.1,	3763486.9,	226.4,	226.4,	0.0);
(439330.0,	3765770.2,	255.1,	260.2,	0.0);	(439380.0,	3765770.2,	255.4,	260.3,	0.0);
(439330.0,	3765820.2,	253.6,	253.6,	0.0);	(439380.0,	3765820.2,	253.8,	253.8,	0.0);
(439430.0,	3765820.2,	253.5,	253.5,	0.0);	(439480.0,	3765820.2,	253.1,	253.1,	0.0);
(439530.0,	3765820.2,	252.9,	260.2,	0.0);	(439580.0,	3765820.2,	252.9,	260.5,	0.0);
(439630.0,	3765820.2,	252.9,	260.6,	0.0);	(439680.0,	3765820.2,	252.6,	260.6,	0.0);
(439730.0,	3765820.2,	253.2,	260.5,	0.0);	(439780.0,	3765820.2,	253.3,	260.7,	0.0);
(439830.0,	3765820.2,	253.7,	260.8,	0.0);	(439880.0,	3765820.2,	255.0,	255.0,	0.0);
(439330.0,	3765870.2,	254.0,	254.0,	0.0);	(439380.0,	3765870.2,	254.4,	254.4,	0.0);
(439430.0,	3765870.2,	254.6,	254.6,	0.0);	(439480.0,	3765870.2,	254.1,	254.1,	0.0);
(439530.0,	3765870.2,	253.6,	253.6,	0.0);	(439580.0,	3765870.2,	253.5,	253.5,	0.0);
(439630.0,	3765870.2,	253.4,	253.4,	0.0);	(439680.0,	3765870.2,	253.2,	253.2,	0.0);
(439730.0,	3765870.2,	253.4,	253.4,	0.0);	(439780.0,	3765870.2,	253.8,	253.8,	0.0);
(439830.0,	3765870.2,	254.1,	254.1,	0.0);	(439880.0,	3765870.2,	255.2,	255.2,	0.0);
(439380.0,	3765920.2,	256.2,	256.2,	0.0);	(439430.0,	3765920.2,	256.0,	256.0,	0.0);
(439480.0,	3765920.2,	255.1,	255.1,	0.0);	(439530.0,	3765920.2,	254.4,	254.4,	0.0);
(439580.0,	3765920.2,	254.2,	254.2,	0.0);	(439630.0,	3765920.2,	254.6,	254.6,	0.0);
(439680.0,	3765920.2,	255.0,	255.0,	0.0);	(439730.0,	3765920.2,	255.0,	255.0,	0.0);
(439780.0,	3765920.2,	255.3,	255.3,	0.0);	(439830.0,	3765920.2,	255.8,	255.8,	0.0);
(439880.0,	3765920.2,	256.5,	256.5,	0.0);	(440007.8,	3765800.4,	255.2,	261.1,	0.0);
(440057.8,	3765800.4,	255.2,	261.0,	0.0);	(440107.8,	3765800.4,	254.4,	260.7,	0.0);
(440157.8,	3765800.4,	254.0,	260.6,	0.0);	(440207.8,	3765800.4,	254.1,	260.8,	0.0);
(440257.8,	3765800.4,	254.0,	260.9,	0.0);	(440307.8,	3765800.4,	254.1,	260.6,	0.0);
(440357.8,	3765800.4,	254.1,	260.5,	0.0);	(440007.8,	3765850.4,	255.6,	255.6,	0.0);
(440057.8,	3765850.4,	254.9,	254.9,	0.0);	(440107.8,	3765850.4,	254.7,	254.7,	0.0);
(440157.8,	3765850.4,	254.4,	254.4,	0.0);	(440207.8,	3765850.4,	254.5,	254.5,	0.0);
(440257.8,	3765850.4,	254.7,	254.7,	0.0);	(440307.8,	3765850.4,	254.7,	254.7,	0.0);
(440357.8,	3765850.4,	254.7,	254.7,	0.0);	(440057.8,	3765900.4,	255.7,	255.7,	0.0);
(440107.8,	3765900.4,	255.6,	255.6,	0.0);	(440157.8,	3765900.4,	255.5,	255.5,	0.0);

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

```
( 440207.8, 3765900.4,     255.4,     255.4,       0.0);
( 440307.8, 3765900.4,     255.2,     255.2,       0.0);
( 440007.8, 3765950.4,     257.2,     257.2,       0.0);
( 440107.8, 3765950.4,     256.2,     256.2,       0.0);
( 440207.8, 3765950.4,     256.0,     256.0,       0.0);
( 440307.8, 3765950.4,     256.0,     256.0,       0.0);
( 440389.3, 3765786.6,     254.2,     260.5,       0.0);
( 440489.3, 3765786.6,     254.9,     259.4,       0.0);
( 440389.3, 3765836.6,     255.2,     255.2,       0.0);
( 440489.3, 3765836.6,     256.4,     256.4,       0.0);
( 440389.3, 3765886.6,     255.7,     255.7,       0.0);
( 440489.3, 3765886.6,     256.7,     256.7,       0.0);
( 440389.3, 3765936.6,     256.2,     256.2,       0.0);
( 440489.3, 3765936.6,     256.9,     256.9,       0.0);
( 440019.2, 3765299.0,     249.9,     249.9,       0.0);
( 440019.2, 3765349.0,     250.6,     250.6,       0.0);
( 440019.2, 3765399.0,     251.2,     251.2,       0.0);
( 440069.2, 3765449.0,     250.8,     250.8,       0.0);
( 440069.2, 3765549.0,     251.1,     251.1,       0.0);
( 440169.2, 3765549.0,     251.3,     251.3,       0.0);
( 440269.2, 3765549.0,     250.9,     250.9,       0.0);
( 440369.2, 3765549.0,     251.8,     251.8,       0.0);
( 440469.2, 3765549.0,     250.4,     250.4,       0.0);
( 440119.2, 3765599.0,     251.3,     260.3,       0.0);
( 440219.2, 3765599.0,     251.9,     251.9,       0.0);
( 440319.2, 3765599.0,     251.7,     251.7,       0.0);
( 440419.2, 3765599.0,     252.3,     252.3,       0.0);
( 440519.2, 3765599.0,     251.4,     251.4,       0.0);
( 440069.2, 3765649.0,     254.6,     260.3,       0.0);
( 440169.2, 3765649.0,     252.9,     261.5,       0.0);
( 440269.2, 3765649.0,     253.4,     261.2,       0.0);
( 440369.2, 3765649.0,     252.5,     260.9,       0.0);
( 440469.2, 3765649.0,     251.7,     260.7,       0.0);
( 440569.2, 3765649.0,     251.3,     260.4,       0.0);
( 439641.8, 3765502.1,     249.3,     249.3,       0.0);
( 439741.8, 3765502.1,     250.2,     250.2,       0.0);
( 439591.8, 3765552.1,     249.8,     249.8,       0.0);
( 439691.8, 3765552.1,     250.1,     250.1,       0.0);
( 439791.8, 3765552.1,     250.5,     250.5,       0.0);
( 439641.8, 3765602.1,     250.5,     260.6,       0.0);
( 439741.8, 3765602.1,     250.4,     259.9,       0.0);
( 439591.8, 3765652.1,     250.6,     260.9,       0.0);
( 439691.8, 3765652.1,     251.4,     261.2,       0.0);
( 439791.8, 3765652.1,     253.8,     261.4,       0.0);
( 439360.7, 3765521.6,     249.1,     249.1,       0.0);
( 439460.7, 3765521.6,     249.5,     249.5,       0.0);
( 439560.7, 3765521.6,     249.3,     249.3,       0.0);
( 439360.7, 3765571.6,     249.4,     249.4,       0.0);
( 440257.8, 3765900.4,     255.3,     255.3,       0.0);
( 440357.8, 3765900.4,     255.2,     255.2,       0.0);
( 440057.8, 3765950.4,     256.3,     256.3,       0.0);
( 440157.8, 3765950.4,     256.0,     256.0,       0.0);
( 440257.8, 3765950.4,     255.8,     255.8,       0.0);
( 440357.8, 3765950.4,     256.0,     256.0,       0.0);
( 440439.3, 3765786.6,     254.6,     259.5,       0.0);
( 440539.3, 3765786.6,     255.0,     259.3,       0.0);
( 440439.3, 3765836.6,     255.6,     255.6,       0.0);
( 440539.3, 3765836.6,     256.2,     256.2,       0.0);
( 440439.3, 3765886.6,     256.0,     256.0,       0.0);
( 440539.3, 3765886.6,     256.5,     256.5,       0.0);
( 440439.3, 3765936.6,     256.2,     256.2,       0.0);
( 440539.3, 3765936.6,     256.7,     256.7,       0.0);
( 440069.2, 3765299.0,     250.1,     250.1,       0.0);
( 440069.2, 3765349.0,     250.1,     250.1,       0.0);
( 440069.2, 3765399.0,     250.8,     250.8,       0.0);
( 440069.2, 3765499.0,     250.9,     250.9,       0.0);
( 440119.2, 3765549.0,     251.1,     251.1,       0.0);
( 440219.2, 3765549.0,     251.3,     251.3,       0.0);
( 440319.2, 3765549.0,     251.4,     251.4,       0.0);
( 440419.2, 3765549.0,     252.3,     252.3,       0.0);
( 440069.2, 3765599.0,     251.4,     251.4,       0.0);
( 440169.2, 3765599.0,     251.8,     251.8,       0.0);
( 440269.2, 3765599.0,     251.3,     260.6,       0.0);
( 440369.2, 3765599.0,     252.2,     252.2,       0.0);
( 440469.2, 3765599.0,     250.6,     250.6,       0.0);
( 440569.2, 3765599.0,     251.6,     251.6,       0.0);
( 440119.2, 3765649.0,     253.8,     261.5,       0.0);
( 440219.2, 3765649.0,     254.1,     261.2,       0.0);
( 440319.2, 3765649.0,     252.4,     261.0,       0.0);
( 440419.2, 3765649.0,     252.6,     260.7,       0.0);
( 440519.2, 3765649.0,     251.5,     260.5,       0.0);
( 439591.8, 3765502.1,     249.0,     249.0,       0.0);
( 439691.8, 3765502.1,     249.6,     249.6,       0.0);
( 439791.8, 3765502.1,     250.2,     250.2,       0.0);
( 439641.8, 3765552.1,     250.2,     250.2,       0.0);
( 439741.8, 3765552.1,     250.1,     250.1,       0.0);
( 439591.8, 3765602.1,     250.2,     260.6,       0.0);
( 439691.8, 3765602.1,     250.6,     260.5,       0.0);
( 439791.8, 3765602.1,     250.7,     260.3,       0.0);
( 439641.8, 3765652.1,     251.1,     261.1,       0.0);
( 439741.8, 3765652.1,     252.3,     261.4,       0.0);
( 439310.7, 3765521.6,     249.0,     249.0,       0.0);
( 439410.7, 3765521.6,     249.4,     249.4,       0.0);
( 439510.7, 3765521.6,     249.7,     249.7,       0.0);
( 439310.7, 3765571.6,     249.7,     249.7,       0.0);
( 439410.7, 3765571.6,     250.1,     250.1,       0.0);
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Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(439460.7,	3765571.6,	250.2,	250.2,	0.0);	(439510.7,	3765571.6,	250.2,	250.2,	0.0);
(439560.7,	3765571.6,	249.9,	249.9,	0.0);	(439310.7,	3765621.6,	250.0,	259.1,	0.0);
(439360.7,	3765621.6,	249.6,	260.3,	0.0);	(439410.7,	3765621.6,	249.8,	260.4,	0.0);
(439460.7,	3765621.6,	250.0,	260.5,	0.0);	(439510.7,	3765621.6,	250.5,	260.4,	0.0);
(439560.7,	3765621.6,	250.4,	260.7,	0.0);	(439310.7,	3765671.6,	253.4,	260.2,	0.0);
(439360.7,	3765671.6,	253.1,	260.3,	0.0);	(439410.7,	3765671.6,	253.2,	260.4,	0.0);
(439460.7,	3765671.6,	253.5,	260.5,	0.0);	(439510.7,	3765671.6,	254.2,	260.6,	0.0);
(439721.5,	3764773.5,	242.4,	242.4,	0.0);	(439771.5,	3764773.5,	241.9,	241.9,	0.0);
(439821.5,	3764773.5,	241.6,	241.6,	0.0);	(439871.5,	3764773.5,	242.7,	242.7,	0.0);
(439721.5,	3764823.5,	242.8,	242.8,	0.0);	(439771.5,	3764823.5,	242.6,	242.6,	0.0);
(439821.5,	3764823.5,	243.1,	243.1,	0.0);	(439871.5,	3764823.5,	243.0,	243.0,	0.0);
(439721.5,	3764873.5,	243.3,	243.3,	0.0);	(439771.5,	3764873.5,	243.6,	243.6,	0.0);
(439821.5,	3764873.5,	243.7,	243.7,	0.0);	(439871.5,	3764873.5,	243.5,	243.5,	0.0);
(439721.5,	3764923.5,	243.6,	243.6,	0.0);	(439771.5,	3764923.5,	243.8,	243.8,	0.0);
(439821.5,	3764923.5,	243.7,	243.7,	0.0);	(439871.5,	3764923.5,	244.6,	244.6,	0.0);
(439721.5,	3764973.5,	243.8,	243.8,	0.0);	(439771.5,	3764973.5,	244.2,	244.2,	0.0);
(439821.5,	3764973.5,	243.6,	243.6,	0.0);	(439871.5,	3764973.5,	244.7,	244.7,	0.0);
(439721.5,	3765023.5,	243.7,	243.7,	0.0);	(439771.5,	3765023.5,	244.0,	244.0,	0.0);
(439821.5,	3765023.5,	244.3,	244.3,	0.0);	(439871.5,	3765023.5,	245.5,	245.5,	0.0);
(439721.5,	3765073.5,	244.6,	244.6,	0.0);	(439771.5,	3765073.5,	245.0,	245.0,	0.0);
(439821.5,	3765073.5,	245.1,	245.1,	0.0);	(439871.5,	3765073.5,	246.1,	246.1,	0.0);
(439721.5,	3765123.5,	244.4,	244.4,	0.0);	(439771.5,	3765123.5,	244.7,	244.7,	0.0);
(439821.5,	3765123.5,	245.6,	245.6,	0.0);	(439871.5,	3765123.5,	246.4,	246.4,	0.0);
(439721.5,	3765173.5,	245.2,	245.2,	0.0);	(439771.5,	3765173.5,	245.9,	245.9,	0.0);
(439821.5,	3765173.5,	246.0,	246.0,	0.0);	(439871.5,	3765173.5,	246.6,	246.6,	0.0);
(439721.5,	3765223.5,	246.1,	246.1,	0.0);	(439771.5,	3765223.5,	245.8,	245.8,	0.0);
(439821.5,	3765223.5,	246.6,	246.6,	0.0);	(439871.5,	3765223.5,	247.0,	247.0,	0.0);
(439721.5,	3765273.5,	247.0,	247.0,	0.0);	(439771.5,	3765273.5,	246.9,	246.9,	0.0);
(439821.5,	3765273.5,	247.2,	247.2,	0.0);	(439871.5,	3765273.5,	248.0,	248.0,	0.0);
(439955.0,	3764718.7,	241.5,	241.5,	0.0);	(440005.0,	3764718.7,	241.8,	241.8,	0.0);
(440055.0,	3764718.7,	242.2,	242.2,	0.0);	(440105.0,	3764718.7,	243.2,	243.2,	0.0);
(439955.0,	3764768.7,	241.9,	241.9,	0.0);	(440005.0,	3764768.7,	242.0,	242.0,	0.0);
(440055.0,	3764768.7,	242.3,	242.3,	0.0);	(440105.0,	3764768.7,	242.5,	242.5,	0.0);
(439955.0,	3764818.7,	242.9,	242.9,	0.0);	(440005.0,	3764818.7,	243.8,	243.8,	0.0);
(440055.0,	3764818.7,	243.4,	243.4,	0.0);	(440105.0,	3764818.7,	242.8,	242.8,	0.0);
(439955.0,	3764868.7,	243.8,	243.8,	0.0);	(440005.0,	3764868.7,	243.8,	243.8,	0.0);
(440055.0,	3764868.7,	243.2,	243.2,	0.0);	(440105.0,	3764868.7,	243.0,	243.0,	0.0);
(439955.0,	3764918.7,	244.6,	244.6,	0.0);	(440005.0,	3764918.7,	245.2,	245.2,	0.0);
(440055.0,	3764918.7,	244.9,	244.9,	0.0);	(440105.0,	3764918.7,	243.5,	243.5,	0.0);
(439955.0,	3764968.7,	245.0,	245.0,	0.0);	(440005.0,	3764968.7,	244.9,	244.9,	0.0);
(440055.0,	3764968.7,	244.7,	244.7,	0.0);	(440105.0,	3764968.7,	244.4,	244.4,	0.0);
(439955.0,	3765018.7,	246.1,	246.1,	0.0);	(440005.0,	3765018.7,	246.5,	246.5,	0.0);

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

```
( 440055.0, 3765018.7,     246.7,     246.7,       0.0);         ( 440105.0, 3765018.7,     246.6,     246.6,       0.0);
( 439955.0, 3765068.7,     246.5,     246.5,       0.0);         ( 440005.0, 3765068.7,     246.6,     246.6,       0.0);
( 440055.0, 3765068.7,     246.9,     246.9,       0.0);         ( 440105.0, 3765068.7,     246.8,     246.8,       0.0);
( 439955.0, 3765118.7,     246.7,     246.7,       0.0);         ( 440005.0, 3765118.7,     247.0,     247.0,       0.0);
( 440055.0, 3765118.7,     247.1,     247.1,       0.0);         ( 440105.0, 3765118.7,     246.4,     246.4,       0.0);
( 439955.0, 3765168.7,     247.8,     247.8,       0.0);         ( 440005.0, 3765168.7,     247.5,     247.5,       0.0);
( 440055.0, 3765168.7,     247.7,     247.7,       0.0);         ( 440105.0, 3765168.7,     246.9,     246.9,       0.0);
( 439955.0, 3765218.7,     248.8,     248.8,       0.0);         ( 440005.0, 3765218.7,     248.2,     248.2,       0.0);
( 440055.0, 3765218.7,     248.0,     248.0,       0.0);         ( 440105.0, 3765218.7,     247.8,     247.8,       0.0);
( 439955.0, 3765268.7,     249.7,     249.7,       0.0);         ( 440005.0, 3765268.7,     248.9,     248.9,       0.0);
( 440055.0, 3765268.7,     249.0,     249.0,       0.0);         ( 440105.0, 3765268.7,     248.5,     248.5,       0.0);
( 439717.0, 3764125.3,     232.8,     232.8,       0.0);         ( 439767.0, 3764125.3,     232.5,     232.5,       0.0);
( 439717.0, 3764175.3,     232.7,     232.7,       0.0);         ( 439767.0, 3764175.3,     233.7,     233.7,       0.0);
( 439717.0, 3764225.3,     234.2,     234.2,       0.0);         ( 439767.0, 3764225.3,     234.5,     234.5,       0.0);
( 439717.0, 3764275.3,     234.7,     234.7,       0.0);         ( 439767.0, 3764275.3,     235.0,     235.0,       0.0);
( 439717.0, 3764325.3,     234.8,     234.8,       0.0);         ( 439767.0, 3764325.3,     235.6,     235.6,       0.0);
( 439717.0, 3764375.3,     235.2,     235.2,       0.0);         ( 439767.0, 3764375.3,     236.0,     236.0,       0.0);
( 439717.0, 3764425.3,     235.7,     235.7,       0.0);         ( 439767.0, 3764425.3,     236.4,     236.4,       0.0);
( 439717.0, 3764475.3,     236.7,     236.7,       0.0);         ( 439767.0, 3764475.3,     237.0,     237.0,       0.0);
( 439706.5, 3764000.3,     231.6,     231.6,       0.0);         ( 439756.5, 3764000.3,     231.2,     231.2,       0.0);
( 439706.5, 3764050.3,     232.1,     232.1,       0.0);         ( 439756.5, 3764050.3,     231.8,     231.8,       0.0);
( 439706.5, 3764100.3,     232.8,     232.8,       0.0);         ( 439756.5, 3764100.3,     232.4,     232.4,       0.0);
( 439710.2, 3763708.6,     228.1,     228.1,       0.0);         ( 439760.2, 3763708.6,     228.4,     228.4,       0.0);
( 439810.2, 3763708.6,     228.7,     228.7,       0.0);         ( 439860.2, 3763708.6,     228.9,     228.9,       0.0);
( 439710.2, 3763758.6,     228.1,     228.1,       0.0);         ( 439760.2, 3763758.6,     228.4,     228.4,       0.0);
( 439810.2, 3763758.6,     228.8,     228.8,       0.0);         ( 439860.2, 3763758.6,     229.1,     229.1,       0.0);
( 439710.2, 3763808.6,     229.4,     229.4,       0.0);         ( 439760.2, 3763808.6,     229.9,     229.9,       0.0);
( 439810.2, 3763808.6,     229.7,     229.7,       0.0);         ( 439860.2, 3763808.6,     229.7,     229.7,       0.0);
( 439710.2, 3763858.6,     229.6,     229.6,       0.0);         ( 439760.2, 3763858.6,     230.1,     230.1,       0.0);
( 439810.2, 3763858.6,     230.1,     230.1,       0.0);         ( 439860.2, 3763858.6,     230.1,     230.1,       0.0);
( 439710.2, 3763908.6,     230.1,     230.1,       0.0);         ( 439760.2, 3763908.6,     230.3,     230.3,       0.0);
( 439810.2, 3763908.6,     230.5,     230.5,       0.0);         ( 439860.2, 3763908.6,     230.4,     230.4,       0.0);
( 439710.2, 3763958.6,     231.4,     231.4,       0.0);         ( 439760.2, 3763958.6,     230.8,     230.8,       0.0);
( 439810.2, 3763958.6,     230.9,     230.9,       0.0);         ( 439860.2, 3763958.6,     231.0,     231.0,       0.0);
( 439712.6, 3763476.7,     225.4,     225.4,       0.0);         ( 439762.6, 3763476.7,     225.9,     225.9,       0.0);
( 439712.6, 3763526.7,     226.1,     226.1,       0.0);         ( 439762.6, 3763526.7,     226.7,     226.7,       0.0);
( 439712.6, 3763576.7,     226.2,     226.2,       0.0);         ( 439762.6, 3763576.7,     226.9,     226.9,       0.0);
( 439712.6, 3763626.7,     227.3,     227.3,       0.0);         ( 439762.6, 3763626.7,     227.3,     227.3,       0.0);
( 439712.6, 3763676.7,     227.7,     227.7,       0.0);         ( 439762.6, 3763676.7,     227.9,     227.9,       0.0);
( 439713.6, 3763089.8,     222.2,     222.2,       0.0);         ( 439763.6, 3763089.8,     222.1,     222.1,       0.0);
( 439813.6, 3763089.8,     222.3,     222.3,       0.0);         ( 439863.6, 3763089.8,     222.6,     222.6,       0.0);
( 439713.6, 3763139.8,     222.3,     222.3,       0.0);         ( 439763.6, 3763139.8,     222.5,     222.5,       0.0);
( 439813.6, 3763139.8,     222.9,     222.9,       0.0);         ( 439863.6, 3763139.8,     223.1,     223.1,       0.0);
( 439713.6, 3763189.8,     223.3,     223.3,       0.0);         ( 439763.6, 3763189.8,     223.3,     223.3,       0.0);
( 439813.6, 3763189.8,     223.8,     223.8,       0.0);         ( 439863.6, 3763189.8,     224.0,     224.0,       0.0);
( 439713.6, 3763239.8,     223.4,     223.4,       0.0);         ( 439763.6, 3763239.8,     224.0,     224.0,       0.0);
( 439813.6, 3763239.8,     224.5,     224.5,       0.0);         ( 439863.6, 3763239.8,     224.4,     224.4,       0.0);
( 439713.6, 3763289.8,     224.0,     224.0,       0.0);         ( 439763.6, 3763289.8,     224.1,     224.1,       0.0);
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Model Output - Operational HRA
Unit Emission Rates (1 g/s)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(439813.6,	3763289.8,	224.7,	224.7,	0.0);	(439863.6,	3763289.8,	225.0,	225.0,	0.0);
(439713.6,	3763339.8,	224.4,	224.4,	0.0);	(439763.6,	3763339.8,	225.3,	225.3,	0.0);
(439813.6,	3763339.8,	225.8,	225.8,	0.0);	(439863.6,	3763339.8,	225.7,	225.7,	0.0);
(439713.6,	3763389.8,	224.9,	224.9,	0.0);	(439763.6,	3763389.8,	225.6,	225.6,	0.0);
(439813.6,	3763389.8,	226.2,	226.2,	0.0);	(439863.6,	3763389.8,	226.2,	226.2,	0.0);
(439713.6,	3763439.8,	225.3,	225.3,	0.0);	(439763.6,	3763439.8,	226.0,	226.0,	0.0);
(439813.6,	3763439.8,	226.8,	226.8,	0.0);	(439863.6,	3763439.8,	226.7,	226.7,	0.0);
(439564.5,	3760857.0,	198.1,	198.1,	0.0);	(439614.5,	3760857.0,	198.2,	198.2,	0.0);
(439664.5,	3760857.0,	198.8,	198.8,	0.0);	(439714.5,	3760857.0,	198.9,	198.9,	0.0);
(439764.5,	3760857.0,	199.0,	199.0,	0.0);	(439814.5,	3760857.0,	199.0,	199.0,	0.0);
(439864.5,	3760857.0,	198.6,	198.6,	0.0);	(439564.5,	3760907.0,	199.0,	199.0,	0.0);
(439614.5,	3760907.0,	198.8,	198.8,	0.0);	(439664.5,	3760907.0,	199.2,	199.2,	0.0);
(439714.5,	3760907.0,	199.7,	199.7,	0.0);	(439764.5,	3760907.0,	200.0,	200.0,	0.0);
(439814.5,	3760907.0,	199.6,	199.6,	0.0);	(439864.5,	3760907.0,	199.4,	199.4,	0.0);
(439564.5,	3760957.0,	199.5,	199.5,	0.0);	(439614.5,	3760957.0,	199.3,	199.3,	0.0);
(439664.5,	3760957.0,	199.4,	199.4,	0.0);	(439714.5,	3760957.0,	199.9,	199.9,	0.0);
(439764.5,	3760957.0,	200.3,	200.3,	0.0);	(439814.5,	3760957.0,	199.9,	199.9,	0.0);
(439864.5,	3760957.0,	199.9,	199.9,	0.0);	(439564.5,	3761007.0,	199.7,	199.7,	0.0);
(439614.5,	3761007.0,	199.4,	199.4,	0.0);	(439664.5,	3761007.0,	199.8,	199.8,	0.0);
(439714.5,	3761007.0,	200.3,	200.3,	0.0);	(439764.5,	3761007.0,	200.7,	200.7,	0.0);
(439814.5,	3761007.0,	200.2,	200.2,	0.0);	(439864.5,	3761007.0,	200.3,	200.3,	0.0);
(439564.5,	3761057.0,	200.0,	200.0,	0.0);	(439614.5,	3761057.0,	199.9,	199.9,	0.0);
(439664.5,	3761057.0,	200.1,	200.1,	0.0);	(439714.5,	3761057.0,	200.9,	200.9,	0.0);
(439764.5,	3761057.0,	201.1,	201.1,	0.0);	(439814.5,	3761057.0,	200.6,	200.6,	0.0);
(439864.5,	3761057.0,	200.8,	200.8,	0.0);	(439564.5,	3761107.0,	200.3,	200.3,	0.0);
(439614.5,	3761107.0,	200.2,	200.2,	0.0);	(439664.5,	3761107.0,	200.5,	200.5,	0.0);
(439714.5,	3761107.0,	201.2,	201.2,	0.0);	(439764.5,	3761107.0,	201.4,	201.4,	0.0);
(439814.5,	3761107.0,	201.0,	201.0,	0.0);	(439864.5,	3761107.0,	201.2,	201.2,	0.0);
(439564.5,	3761157.0,	200.8,	200.8,	0.0);	(439614.5,	3761157.0,	201.0,	201.0,	0.0);
(439664.5,	3761157.0,	201.3,	201.3,	0.0);	(439714.5,	3761157.0,	201.5,	201.5,	0.0);
(439764.5,	3761157.0,	201.7,	201.7,	0.0);	(439814.5,	3761157.0,	201.9,	201.9,	0.0);
(439864.5,	3761157.0,	201.7,	201.7,	0.0);	(439714.5,	3761207.0,	202.0,	202.0,	0.0);
(439764.5,	3761207.0,	202.0,	202.0,	0.0);	(439814.5,	3761207.0,	202.3,	202.3,	0.0);
(439864.5,	3761207.0,	202.4,	202.4,	0.0);	(439714.5,	3761257.0,	202.2,	202.2,	0.0);
(439764.5,	3761257.0,	202.4,	202.4,	0.0);	(439814.5,	3761257.0,	202.6,	202.6,	0.0);
(439864.5,	3761257.0,	202.3,	202.3,	0.0);	(439565.6,	3761286.5,	202.2,	202.2,	0.0);
(439615.6,	3761286.5,	202.3,	202.3,	0.0);	(439665.6,	3761286.5,	202.5,	202.5,	0.0);
(439715.6,	3761286.5,	202.6,	202.6,	0.0);	(439765.6,	3761286.5,	202.6,	202.6,	0.0);
(439815.6,	3761286.5,	202.7,	202.7,	0.0);	(439865.6,	3761286.5,	202.5,	202.5,	0.0);
(439565.6,	3761336.5,	202.2,	202.2,	0.0);	(439615.6,	3761336.5,	202.5,	202.5,	0.0);
(439665.6,	3761336.5,	202.8,	202.8,	0.0);	(439715.6,	3761336.5,	202.9,	202.9,	0.0);
(439765.6,	3761336.5,	203.2,	203.2,	0.0);	(439815.6,	3761336.5,	203.4,	203.4,	0.0);

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

```
( 439865.6, 3761336.5,     203.2,     203.2,       0.0);
( 439615.6, 3761386.5,     202.7,     202.7,       0.0);
( 439715.6, 3761386.5,     203.1,     203.1,       0.0);
( 439815.6, 3761386.5,     203.3,     203.3,       0.0);
( 439615.6, 3761436.5,     203.2,     203.2,       0.0);
( 439715.6, 3761436.5,     203.6,     203.6,       0.0);
( 439815.6, 3761436.5,     204.0,     204.0,       0.0);
( 439665.6, 3761486.5,     204.0,     204.0,       0.0);
( 439765.6, 3761486.5,     204.1,     204.1,       0.0);
( 439865.6, 3761486.5,     204.8,     204.8,       0.0);
( 439765.6, 3761536.5,     204.8,     204.8,       0.0);
( 439865.6, 3761536.5,     205.2,     205.2,       0.0);
( 439815.6, 3761586.5,     205.2,     205.2,       0.0);
( 438676.0, 3754623.0,     180.8,     372.6,       0.0);
( 438776.0, 3754623.0,     178.5,     372.6,       0.0);
( 438726.0, 3754673.0,     179.4,     372.6,       0.0);
( 438676.0, 3754723.0,     180.6,     372.6,       0.0);
( 438776.0, 3754723.0,     179.4,     372.6,       0.0);
( 438726.0, 3754773.0,     177.5,     372.6,       0.0);
( 438726.0, 3754823.0,     174.7,     372.6,       0.0);
( 438726.0, 3754873.0,     176.5,     372.6,       0.0);
( 438726.0, 3754923.0,     185.9,     359.9,       0.0);
( 438780.5, 3754412.7,     180.2,     372.6,       0.0);
( 438680.5, 3754462.7,     184.8,     372.6,       0.0);
( 438780.5, 3754462.7,     178.5,     372.6,       0.0);
( 438680.5, 3754512.7,     182.2,     372.6,       0.0);
( 438780.5, 3754512.7,     177.8,     372.6,       0.0);
( 438680.5, 3754562.7,     182.0,     372.6,       0.0);
( 438780.5, 3754562.7,     178.2,     372.6,       0.0);
( 439067.2, 3754180.8,     177.1,     372.6,       0.0);
( 439167.2, 3754180.8,     176.7,     372.6,       0.0);
( 439267.2, 3754180.8,     176.5,     372.6,       0.0);
( 439117.2, 3754230.8,     176.5,     372.6,       0.0);
( 439217.2, 3754230.8,     177.2,     372.6,       0.0);
( 439117.2, 3754280.8,     177.7,     372.6,       0.0);
( 439217.2, 3754280.8,     177.7,     372.6,       0.0);
( 439017.2, 3754330.8,     178.5,     372.6,       0.0);
( 439117.2, 3754330.8,     178.7,     372.6,       0.0);
( 438967.2, 3754380.8,     179.3,     372.6,       0.0);
( 439067.2, 3754380.8,     179.4,     372.6,       0.0);
( 439167.2, 3754380.8,     178.4,     372.6,       0.0);
( 438917.2, 3754430.8,     178.3,     372.6,       0.0);
( 439017.2, 3754430.8,     179.9,     372.6,       0.0);
( 439117.2, 3754430.8,     180.0,     372.6,       0.0);
( 438917.2, 3754480.8,     178.4,     372.6,       0.0);
( 439017.2, 3754480.8,     179.2,     372.6,       0.0);
( 438867.2, 3754530.8,     177.3,     372.6,       0.0);
( 438967.2, 3754530.8,     178.8,     372.6,       0.0);
```

```
( 439565.6, 3761386.5,     202.3,     202.3,       0.0);
( 439665.6, 3761386.5,     203.0,     203.0,       0.0);
( 439765.6, 3761386.5,     203.3,     203.3,       0.0);
( 439865.6, 3761386.5,     203.6,     203.6,       0.0);
( 439665.6, 3761436.5,     203.6,     203.6,       0.0);
( 439765.6, 3761436.5,     203.7,     203.7,       0.0);
( 439865.6, 3761436.5,     204.3,     204.3,       0.0);
( 439715.6, 3761486.5,     203.8,     203.8,       0.0);
( 439815.6, 3761486.5,     204.6,     204.6,       0.0);
( 439715.6, 3761536.5,     204.5,     204.5,       0.0);
( 439815.6, 3761536.5,     205.1,     205.1,       0.0);
( 439765.6, 3761586.5,     204.9,     204.9,       0.0);
( 439865.6, 3761586.5,     205.6,     205.6,       0.0);
( 438726.0, 3754623.0,     179.6,     372.6,       0.0);
( 438676.0, 3754673.0,     180.7,     372.6,       0.0);
( 438776.0, 3754673.0,     179.1,     372.6,       0.0);
( 438726.0, 3754723.0,     179.5,     372.6,       0.0);
( 438676.0, 3754773.0,     180.6,     372.6,       0.0);
( 438676.0, 3754823.0,     180.7,     372.6,       0.0);
( 438676.0, 3754873.0,     181.8,     372.6,       0.0);
( 438676.0, 3754923.0,     185.3,     372.6,       0.0);
( 438730.5, 3754412.7,     188.2,     372.6,       0.0);
( 438830.5, 3754412.7,     180.6,     372.6,       0.0);
( 438730.5, 3754462.7,     186.7,     372.6,       0.0);
( 438830.5, 3754462.7,     178.5,     372.6,       0.0);
( 438730.5, 3754512.7,     180.9,     372.6,       0.0);
( 438830.5, 3754512.7,     176.8,     372.6,       0.0);
( 438730.5, 3754562.7,     179.9,     372.6,       0.0);
( 438830.5, 3754562.7,     177.0,     372.6,       0.0);
( 439117.2, 3754180.8,     176.3,     372.6,       0.0);
( 439217.2, 3754180.8,     176.6,     372.6,       0.0);
( 439067.2, 3754230.8,     176.7,     372.6,       0.0);
( 439167.2, 3754230.8,     177.1,     372.6,       0.0);
( 439067.2, 3754280.8,     177.2,     372.6,       0.0);
( 439167.2, 3754280.8,     177.8,     372.6,       0.0);
( 438967.2, 3754330.8,     178.6,     372.6,       0.0);
( 439067.2, 3754330.8,     178.1,     372.6,       0.0);
( 439167.2, 3754330.8,     178.4,     372.6,       0.0);
( 439017.2, 3754380.8,     179.5,     372.6,       0.0);
( 439117.2, 3754380.8,     179.4,     372.6,       0.0);
( 438867.2, 3754430.8,     177.7,     372.6,       0.0);
( 438967.2, 3754430.8,     179.2,     372.6,       0.0);
( 439067.2, 3754430.8,     180.0,     372.6,       0.0);
( 438867.2, 3754480.8,     177.1,     372.6,       0.0);
( 438967.2, 3754480.8,     178.9,     372.6,       0.0);
( 439067.2, 3754480.8,     180.3,     372.6,       0.0);
( 438917.2, 3754530.8,     178.1,     372.6,       0.0);
( 439017.2, 3754530.8,     179.4,     372.6,       0.0);
```

Model Output - Operational HRA
Unit Emission Rates (1 g/s)


```
                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                     (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                   (METERS)

    ( 438867.2, 3754580.8,     177.1,     372.6,       0.0);         ( 438917.2, 3754580.8,     178.0,     372.6,       0.0);
    ( 438967.2, 3754580.8,     178.8,     372.6,       0.0);
```



```
                     * SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
                       LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL


                          SOURCE          - - RECEPTOR LOCATION - -         DISTANCE
                            ID            XR (METERS)   YR (METERS)         (METERS)
                       - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

                         L0004510            438867.2     3754580.8            -2.71
```

Model Output - Operational HRA
Unit Emission Rates (1 g/s)


```
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                    *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                  (1=YES; 0=NO)

          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1

              NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.


                                 *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                  (METERS/SEC)

                                      1.54,   3.09,   5.14,   8.23,  10.80,
```

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

```
*** AERMOD - VERSION  18081 ***   *** Ontario Ranch Business Park HRA                                    ***        08/28/19
*** AERMET - VERSION  16216 ***   *** Operation                                                          ***        16:18:20
                                                                                                                    PAGE 150
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                  *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

  Surface file:   ..\Met Data\KCNO_V9_ADJU_198m\KCNO_v9.SFC                                    Met Version:  16216
  Profile file:   ..\Met Data\KCNO_V9_ADJU_198m\KCNO_v9.PFL
  Surface format: FREE
  Profile format: FREE
  Surface station no.:     3179                  Upper air station no.:     3190
                 Name: UNKNOWN                                     Name: UNKNOWN
                 Year:   2012                                      Year:   2012
```

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-2.3	0.067	-9.000	-9.000	-999.	41.	11.2	0.09	0.74	1.00	0.73	313.	7.9	279.2	2.0
12	01	01	1	02	-2.7	0.070	-9.000	-9.000	-999.	44.	11.3	0.09	0.74	1.00	0.80	342.	7.9	280.9	2.0
12	01	01	1	03	-5.6	0.098	-9.000	-9.000	-999.	73.	14.7	0.09	0.74	1.00	1.20	9.	7.9	281.4	2.0
12	01	01	1	04	-3.5	0.078	-9.000	-9.000	-999.	52.	11.9	0.09	0.74	1.00	0.94	21.	7.9	282.0	2.0
12	01	01	1	05	-8.4	0.119	-9.000	-9.000	-999.	99.	18.1	0.09	0.74	1.00	1.45	353.	7.9	279.9	2.0
12	01	01	1	06	-7.6	0.113	-9.000	-9.000	-999.	91.	17.0	0.09	0.74	1.00	1.38	325.	7.9	277.5	2.0
12	01	01	1	07	-8.0	0.117	-9.000	-9.000	-999.	96.	17.7	0.09	0.74	1.00	1.42	313.	7.9	281.4	2.0
12	01	01	1	08	-5.2	0.101	-9.000	-9.000	-999.	77.	17.5	0.09	0.74	0.53	1.23	19.	7.9	280.9	2.0
12	01	01	1	09	23.2	0.117	0.267	0.012	29.	97.	-6.2	0.09	0.74	0.31	0.96	318.	7.9	287.5	2.0
12	01	01	1	10	65.2	0.101	0.531	0.014	82.	77.	-1.4	0.09	0.74	0.24	0.63	244.	7.9	291.4	2.0
12	01	01	1	11	95.5	0.162	0.778	0.008	176.	156.	-4.0	0.09	0.74	0.21	1.23	91.	7.9	296.4	2.0
12	01	01	1	12	110.8	0.197	1.018	0.005	338.	209.	-6.1	0.09	0.74	0.20	1.60	90.	7.9	299.9	2.0
12	01	01	1	13	110.5	0.229	1.184	0.005	534.	262.	-9.6	0.09	0.74	0.20	1.98	92.	7.9	302.0	2.0
12	01	01	1	14	94.6	0.185	1.215	0.005	674.	191.	-5.9	0.09	0.74	0.21	1.50	73.	7.9	303.1	2.0
12	01	01	1	15	68.6	0.187	1.184	0.005	858.	194.	-8.4	0.09	0.74	0.25	1.59	64.	7.9	303.1	2.0
12	01	01	1	16	24.9	0.255	0.862	0.005	911.	308.	-58.8	0.09	0.74	0.34	2.61	92.	7.9	300.4	2.0
12	01	01	1	17	-13.7	0.168	-9.000	-9.000	-999.	168.	31.1	0.09	0.74	0.62	1.98	107.	7.9	295.4	2.0
12	01	01	1	18	-26.7	0.279	-9.000	-9.000	-999.	354.	85.6	0.09	0.74	1.00	3.22	134.	7.9	291.4	2.0
12	01	01	1	19	-8.0	0.118	-9.000	-9.000	-999.	120.	18.2	0.09	0.74	1.00	1.43	37.	7.9	290.4	2.0
12	01	01	1	20	-7.7	0.115	-9.000	-9.000	-999.	94.	17.6	0.09	0.74	1.00	1.40	49.	7.9	287.0	2.0
12	01	01	1	21	-9.7	0.130	-9.000	-9.000	-999.	113.	20.2	0.09	0.74	1.00	1.57	26.	7.9	288.8	2.0
12	01	01	1	22	-4.8	0.090	-9.000	-9.000	-999.	65.	13.6	0.09	0.74	1.00	1.11	56.	7.9	284.9	2.0
12	01	01	1	23	-11.5	0.141	-9.000	-9.000	-999.	127.	21.9	0.09	0.74	1.00	1.69	36.	7.9	282.0	2.0
12	01	01	1	24	-16.9	0.172	-9.000	-9.000	-999.	171.	32.4	0.09	0.74	1.00	2.03	33.	7.9	279.9	2.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	7.9	1	313.	0.73	279.3	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

```
*** AERMOD - VERSION  18081 ***   *** Ontario Ranch Business Park HRA                                    ***        08/28/19
*** AERMET - VERSION  16216 ***   *** Operation                                                          ***        16:18:20
                                                                                                                    PAGE 263
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                    *** THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS ***

                                 ** CONC OF OTHER    IN MICROGRAMS/M**3                          **

                                                                                                          NETWORK
GROUP ID                       AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                                                                                  MER, north of site
ONSITE     1ST HIGHEST VALUE IS       7.20289 AT (  439864.50,  3760856.98,   198.62,   198.62,    0.00)  DC
           2ND HIGHEST VALUE IS       6.94234 AT (  439864.50,  3760906.98,   199.38,   199.38,    0.00)  DC
           3RD HIGHEST VALUE IS       6.59708 AT (  439864.50,  3760956.98,   199.91,   199.91,    0.00)  DC
           4TH HIGHEST VALUE IS       6.21127 AT (  439864.50,  3761006.98,   200.33,   200.33,    0.00)  DC
           5TH HIGHEST VALUE IS       5.77166 AT (  439864.50,  3761056.98,   200.79,   200.79,    0.00)  DC
           6TH HIGHEST VALUE IS       5.70596 AT (  440614.93,  3761227.65,   203.25,   203.25,    0.00)  DC
           7TH HIGHEST VALUE IS       5.69319 AT (  439814.50,  3760856.98,   199.01,   199.01,    0.00)  DC
           8TH HIGHEST VALUE IS       5.52515 AT (  440261.00,  3761292.45,   203.39,   203.39,    0.00)  DC
           9TH HIGHEST VALUE IS       5.45840 AT (  439814.50,  3760906.98,   199.56,   199.56,    0.00)  DC
          10TH HIGHEST VALUE IS       5.39711 AT (  440317.43,  3761294.75,   203.45,   203.45,    0.00)  DC

HAULROUT   1ST HIGHEST VALUE IS       7.06423 AT (  439791.82,  3765652.15,   253.81,   261.45,    0.00)  DC
           2ND HIGHEST VALUE IS       6.09393 AT (  440069.18,  3765649.02,   254.61,   260.28,    0.00)  DC
           3RD HIGHEST VALUE IS       6.00915 AT (  440007.82,  3765800.38,   255.18,   261.10,    0.00)  DC
           4TH HIGHEST VALUE IS       5.56067 AT (  438967.23,  3754580.82,   178.82,   372.55,    0.00)  DC
           5TH HIGHEST VALUE IS       5.52292 AT (  438917.23,  3754580.82,   177.97,   372.55,    0.00)  DC
           6TH HIGHEST VALUE IS       5.21058 AT (  440119.18,  3765649.02,   253.83,   261.54,    0.00)  DC
           7TH HIGHEST VALUE IS       5.15551 AT (  439741.82,  3765652.15,   252.26,   261.45,    0.00)  DC
           8TH HIGHEST VALUE IS       5.12928 AT (  440057.82,  3765800.38,   255.23,   260.96,    0.00)  DC
           9TH HIGHEST VALUE IS       4.73274 AT (  440261.00,  3761292.45,   203.39,   203.39,    0.00)  DC
          10TH HIGHEST VALUE IS       4.57564 AT (  440169.18,  3765649.02,   252.88,   261.48,    0.00)  DC

TRUCKBAY   1ST HIGHEST VALUE IS    1661.08714 AT (  439864.50,  3760856.98,   198.62,   198.62,    0.00)  DC
           2ND HIGHEST VALUE IS    1658.14920 AT (  439864.50,  3760906.98,   199.38,   199.38,    0.00)  DC
           3RD HIGHEST VALUE IS    1644.41855 AT (  439864.50,  3760956.98,   199.91,   199.91,    0.00)  DC
           4TH HIGHEST VALUE IS    1616.07320 AT (  439864.50,  3761006.98,   200.33,   200.33,    0.00)  DC
           5TH HIGHEST VALUE IS    1526.92250 AT (  439864.50,  3761056.98,   200.79,   200.79,    0.00)  DC
           6TH HIGHEST VALUE IS    1433.52889 AT (  440261.00,  3761292.45,   203.39,   203.39,    0.00)  DC
           7TH HIGHEST VALUE IS    1428.25952 AT (  439814.50,  3760856.98,   199.01,   199.01,    0.00)  DC
           8TH HIGHEST VALUE IS    1415.15958 AT (  439814.50,  3760906.98,   199.56,   199.56,    0.00)  DC
           9TH HIGHEST VALUE IS    1415.12828 AT (  440317.43,  3761294.75,   203.45,   203.45,    0.00)  DC
          10TH HIGHEST VALUE IS    1389.06552 AT (  439814.50,  3760956.98,   199.86,   199.86,    0.00)  DC
```

```
*** AERMOD - VERSION  18081 ***   *** Ontario Ranch Business Park HRA                                    ***        08/28/19
*** AERMET - VERSION  16216 ***   *** Operation                                                          ***        16:18:20
                                                                                                                    PAGE 267

*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** Message Summary : AERMOD Model Execution ***

 --------- Summary of Total Messages --------

A Total of            0 Fatal Error Message(s)
A Total of          271 Warning Message(s)
A Total of         1279 Informational Message(s)

A Total of        43848 Hours Were Processed

A Total of          917 Calm Hours Identified

A Total of          362 Missing Hours Identified (  0.83 Percent)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
SO W320    2223        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2224        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2225        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2226        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2227        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2228        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2229        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2230        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2231        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2232        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2233        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2234        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2235        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2236        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2237        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2238        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2239        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2240        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2241        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2242        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2243        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2244        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2245        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2246        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2247        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2248        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
```

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

```
SO W320    2249        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2250        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2251        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2252        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2253        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2254        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2255        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2256        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2257        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2258        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2259        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2260        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2261        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2262        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2263        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2264        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2265        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2266        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2267        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2268        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2269        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2270        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2271        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2272        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2273        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2274        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2275        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2276        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2277        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2278        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2279        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2280        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2281        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2282        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2283        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2284        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2285        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2286        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2287        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2288        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2289        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2290        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2291        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2292        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2293        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2294        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2295        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2296        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2297        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2298        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2299        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
```

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

```
SO W320    2300        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2301        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2302        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2303        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2304        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2305        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2306        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2307        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2308        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2309        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2310        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2311        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2312        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2313        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2314        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2315        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2316        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2317        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2318        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2319        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2320        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2321        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2322        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2323        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2324        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2325        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2326        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2327        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2328        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2329        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2330        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2331        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2332        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2333        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2334        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2335        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2336        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2337        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2338        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2339        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2340        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2341        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2342        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2343        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2344        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2345        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2346        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2347        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2348        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2349        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2350        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
```

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

```
SO W320    2351        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2352        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2353        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2354        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2355        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2356        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2357        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2358        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2359        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2360        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2361        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2362        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2363        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2364        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2365        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2366        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2367        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2368        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2369        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2370        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2371        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2372        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2373        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2374        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2375        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2376        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2377        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2378        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2379        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2380        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2381        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2382        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2383        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2384        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2385        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2386        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2387        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2388        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2389        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2390        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2391        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2392        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2393        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2394        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2395        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2396        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2397        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2398        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2399        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2400        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2401        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
```

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

```
SO W320    2402        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2403        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2404        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2405        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2406        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2407        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2408        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2409        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2410        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2411        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2412        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2413        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2414        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2415        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2416        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2417        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2418        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2419        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2420        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2421        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2422        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2423        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2424        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2425        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2426        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2427        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2428        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2429        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2430        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2431        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2432        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2433        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2434        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2435        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2436        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2437        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2438        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2439        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2440        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2441        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2442        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2443        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2444        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2445        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2446        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2447        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2448        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2449        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2450        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2451        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    2452        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
```

Model Output - Operational HRA
Unit Emission Rates (1 g/s)

```
SO W320    2453        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2454        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2455        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2456        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2457        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2458        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2459        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2460        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2461        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2462        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2463        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2464        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2465        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2466        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2467        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2468        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2469        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2470        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2471        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2472        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2473        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2474        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2475        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2476        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2477        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2478        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2479        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2480        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2481        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2482        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2483        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2484        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2485        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2486        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2487        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2488        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2489        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2490        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    2491        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
ME W186   13500       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187   13500       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ************************************
   *** AERMOD Finishes Successfully ***
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Appendix E. Construction Risk Calculations

Appendix

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Table E1
Residential MER Concentrations for Construction Risk Calculations

Contaminant (a)	Source (b)		Model Output [1] ($\mu g/m^3$) (c)	Emission Rates [2] (g/s) (d)	MER Conc. ($\mu g/m^3$) (e)	Total MER Conc. Annual Average ($\mu g/m^3$) (f)
Residential Receptors						
DPM	2020	Phase 1 On-Site	0.19	2.65E-02	5.02E-03	5.44E-03
		Phase 1 Truck Route	9.68	4.30E-05	4.17E-04	
		Phase 2 On-Site	3.20	5.10E-03	1.63E-02	1.64E-02
		Phase 2 Truck Route	9.68	9.25E-06	8.96E-05	
		Off-site Construction	0.74	1.55E-02	1.16E-02	1.17E-02
		Off-site Truck Route	9.68	1.32E-05	1.28E-04	
	2021	Phase 1 On-Site	0.19	1.66E-02	3.14E-03	3.30E-03
		Phase 1 Truck Route	9.68	1.71E-05	1.66E-04	
		Off-site Construction	0.74	8.75E-03	6.51E-03	6.59E-03
		Off-site Truck Route	9.68	8.94E-06	8.65E-05	
	2022	Phase 2 On-Site	3.20	2.00E-02	6.41E-02	6.42E-02
		Phase 2 Truck Route	9.68	1.58E-05	1.53E-04	
		Off-site Construction	0.74	4.11E-03	3.05E-03	3.10E-03
		Off-site Truck Route	9.68	5.03E-06	4.87E-05	
Total DPM concentrations used for Cancer Risk and Chronic Hazard calculations						
Residential Receptors - Mitigated Run: Tier 4 Engines for eq. > 50 HP (Phases 1 & 2) - MM AQ-1 and MM AQ-13 [3]						
DPM	2020	Phase 1 On-Site	0.19	6.12E-03	1.16E-03	1.57E-03
		Phase 1 Truck Route	9.68	4.30E-05	4.17E-04	
		Phase 2 On-Site	3.20	5.10E-03	1.63E-02	1.64E-02
		Phase 2 Truck Route	9.68	9.25E-06	8.96E-05	
		Off-site Construction	0.74	1.55E-02	1.16E-02	1.17E-02
		Off-site Truck Route	9.68	1.32E-05	1.28E-04	
	2021	Phase 1 On-Site	0.19	1.51E-02	2.86E-03	3.03E-03
		Phase 1 Truck Route	9.68	1.71E-05	1.66E-04	
		Off-site Construction	0.74	8.75E-03	6.51E-03	6.59E-03
		Off-site Truck Route	9.68	8.94E-06	8.65E-05	
	2022	Phase 2 On-Site	3.20	6.61E-03	2.12E-02	2.13E-02
		Phase 2 Truck Route	9.68	1.58E-05	1.53E-04	
		Off-site Construction	0.74	4.11E-03	3.05E-03	3.10E-03
		Off-site Truck Route	9.68	5.03E-06	4.87E-05	
Total DPM concentrations used for Cancer Risk and Chronic Hazard calculations						

Maximum Exposed Receptor (MER) UTM coordinates: 440261.00E, 3761292.45N

[1] Model Output (Appendix C) at the MER based on unit emission rates for sources (1 g/s).

[2] Emission Rates from Emission Rate Calculations (Appendix A - Construction Emissions).

[3] Mitigation Measure AQ-1 reduces regional construction impacts and MM AQ-13 reduces localized health risk impacts for the combined Construction + Operational Scenario.

Table E2
Quantification of Health Risks for Off-site Residents
Construction Emissions

Source		MER Conc. ($\mu g/m^3$) (a)	Weight Fraction (b)	Contaminant (c)	URF $(\mu g/m^3)^{-1}$ (d)	CPF $(mg/kg/day)^{-1}$ (e)	Dose (by age bin) 3rd Trimester (mg/kg-day) (f)	Dose (by age bin) 0 < 2 years (mg/kg-day) (g)	Carcinogenic Risks (by age bin) 3rd Trimester per million (h)	Carcinogenic Risks (by age bin) 0 < 2 years per million (k)	Total Cancer Risk per million (l)	Chronic Hazards [3] Chronic REL ($\mu g/m^3$) (o)	Chronic Hazards [3] RESP (p)
Residential Receptors													
2020	Phase 1	5.44E-03	1.00E+00	DPM	3.0E-04	1.1E+00	1.88E-06		5.86E-02		0.06	5.0E+00	1.09E-03
	Phase 2	1.64E-02	1.00E+00				5.69E-06		1.08E-01		0.11		3.28E-03
	Off-Site Construction	1.17E-02	1.00E+00				4.04E-06		3.94E-02		0.04		2.34E-03
2021	Phase 1	3.30E-03	1.00E+00					3.45E-06		4.27E-01	0.43		6.60E-04
	Off-Site Construction	6.59E-03	1.00E+00					6.89E-06		8.75E-01	0.88		1.32E-03
2022	Phase 2	6.42E-02	1.00E+00					6.71E-05		7.87E+00	7.87		1.28E-02
	Off-Site Construction	3.10E-03	1.00E+00					3.24E-06		3.34E-02	0.03		6.21E-04
										Total	**9.4**		**0.022**
Residential Receptors - Mitigated Run: Tier 4 Engines for eq. > 50 HP (Phases 1 & 2) - MM AQ-1 and MM AQ-13													
2020	Phase 1	1.57E-03	1.00E+00	DPM	3.0E-04	1.1E+00	5.45E-07		1.70E-02		0.02	5.0E+00	3.15E-04
	Phase 2	1.64E-02	1.00E+00				5.69E-06		1.08E-01		0.11		3.28E-03
	Off-Site Construction	1.17E-02	1.00E+00				4.04E-06		3.94E-02		0.04		2.34E-03
2021	Phase 1	3.03E-03	1.00E+00					3.17E-06		3.91E-01	0.39		6.06E-04
	Off-Site Construction	6.59E-03	1.00E+00					6.89E-06		8.75E-01	0.88		1.32E-03
2022	Phase 2	2.13E-02	1.00E+00					2.23E-05		2.61E+00	2.61		4.26E-03
	Off-Site Construction	3.10E-03	1.00E+00					3.24E-06		3.34E-02	0.03		6.21E-04
										Total	**4.1**		**0.013**

Maximum Exposed Receptor (MER) UTM coordinates: 440261.00E, 3761292.45N

		3rd Trimester	0 < 2 years
	OEHHA age bin	3rd Trimester	0 < 2 years
	exposure year(s)	2020	2021-2022
Dose Exposure Factors:	xposure frequency (days/year)	350	350
	inhalation rate (L/kg-day) [1]	361	1090
	inhalation absorption factor	1	1
	conversion factor (mg/µg; m^3/L)	1.0E-06	1.0E-06
Risk Calculation Factors:	age sensitivity factor	10	10
	averaging time (years)	70	70
	per million	1.0E+06	1.0E+06
	fraction of time at home	0.85	0.85

		exposure durations (year)[2]	
Construction Year		3rd Trimester	0 < 2 years
2020	Phase 1	0.24	
	Phase 2	0.15	
	Off-site	0.08	
2021	Phase 1		0.97
	Phase 2		
	Off-site		1.00
2022	Phase 1		
	Phase 2		0.92
	Off-site		0.08

[1] Inhalation rate taken as the 95th percentile breathing rates (OEHHA, 2015).

[2] Risk scalar determined for each year of construction to adjust receptor exposures to the exposure durations for each construction year (see App A - Construction Emissions).

[3] Chronic Hazards for DPM using the chronic reference exposure level (REL) for the Respiratory Toxicological Endpoint.

Appendix F. Operational Risk Calculations

Appendix

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Table F1
MER Concentrations for HARP2 Input
Full Buildout

Source No. (a)	Source (b)	Emission Rates[1] **Annual Average** (g/s) (c)	Contaminant (d)	Weight Fraction (e)	AERMOD Output[2] **Annual Average** ($\mu g/m^3$) (f)	Annual Average MER Concentration ($\mu g/m^3$) (g)
Residential Evaluation						
1	Running Emissions On-site	1.39E-04	Diesel Particulate	1.00E+00	5.53	7.69E-04
2	Idling Emissions	1.03E-06	Diesel Particulate	1.00E+00	1433.53	1.47E-03
3	Running Emissions Off-	1.34E-03	Diesel Particulate	1.00E+00	4.733	6.35E-03
4	Yard Trucks	8.91E-05	Diesel Particulate	1.00E+00	5.525	4.92E-04

Maximum Exposed Receptor (MER) 440261.0, 3761292.45; residence north of site

[1] Emission Rates, per source, from Source Emissions Inventories (Appendix B). On-site Running Emissions calculated by adding the on-site running emissions for Phase 1 and Phase 2 of the project. Similarly, Off-site Running Emissions calculated by adding the off-site/truck route emissions for Phase 1 and Phase 2 of the project. Idling emissions calculated by adding the truck idling and TRU emissions for Phase 1 and Phase 2 of the project.

[2] AERMOD Output (Appendix D) at the maximum exposed receptor (MER) are based on unit emission rates for emission sources (1 g/s per source).

Table F2
HARP2 Results for Cancer Risk and Chronic Hazards
Residential Receptors

No.	Source	Contaminant	Carcinogenic Risks 30-yr Resident [1,2]	Non-Cancer Risk Chronic Hazard
			per million	RESP
(a)	(b)	(c)	(d)	(e)
1	Onsite Running Emissions	Diesel Particulate	5.24E-01	1.54E-04
2	Idiling Emissions	Diesel Particulate	1.00E+00	2.94E-04
3	Offsite Running Emission	Diesel Particulate	4.33E+00	1.27E-03
4	Yard Trucks	Diesel Particulate	3.35E-01	9.84E-05
		Total - All Sources	**6.2**	**0.002**

Note: Health risks calculated using HARP2, Risk Assessment Standalone Tool, version 190449 (CARB, 2019).
Note: RESP, Respiratory System, Toxicological Endpoint

	3rd Trimester	0 < 2 years	2 < 16 years	16 < 30 years	age bin
Dose Exposure Factors:	350	350	350	350	exposure frequency (days/year)
	361	1090	745	335	inhalation rate (L/kg-day) [3]
	1	1	1	1	inhalation absorption factor
Risk Calculation Factors:	10	10	3	1	age sensitivity factor
	0.25	2	14	14	exposure duration (years)
	70	70	70	70	averaging time (years)
	0.85	0.85	0.72	0.73	fraction of time at home

[1] For informational purposes, 70-year and 9-year unmitigated residential cancer risks are 7.3 and 4.4 in a million, respectively.
[2] Maximum Exposed Receptor (MER) 440261.0, 3761292.45; residence north of site.
[3] Inhalation rate taken as the 95th percentile breathing rates (OEHHA, 2015).

10. Existing Energy Emissions Worksheet

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Existing Operations Energy Sector GHG Emissions Worksheet

Energy Usage

Southern California Edison Electricity Use

	Annual KWH Nov 2018 to Oct 2019[1]
Account 1	591,097
Account 2	86,037
Account 3	49,438
Account 4	30,376
Total	**756,948**

3.88E+08

387,510

[1] *Based on electricity usage of existing land use between November 2018 and October 2019.*

SoCal Gas Natural Gas Use

	Annual Therms[1]
Existing Use	3,876

[1] *Based on natural gas usage for October 2019 of 323 therms and multiplied by 12 months.*

Natural Gas Emission Factors

Natural Gas	Intensity factor			CO_2e
	$MTCO_2$/Therm	CH_4 MT/Therm	N_2O MT/Therm	MT/Therm
All Years	0.005302	5.E-07	1.E-08	**0.00532**

Source: CO_2, CH_4 and N_2O intensity based on Table G.3 of the LGOP for residential and non-residential (CO_2, 53.02 kg/Mmbtu; CH_4: 0.005 kg/MMBtu; N_2O: 0.0001 kg/MMBtu)

Electricity Carbon Intensity Factor

SCE

	WCI -WECC Region Intensity factor			CO_2e
	CO_2 MTons/MWH[1,2]	CH_4 MTons/MWH[3]	N_2O MTons/MWH[3]	MTons/MWh
2018	0.229	0.000015	0.000002	0.230

[1] Southern California Edison. 2019. 2018 Sustainability Report. https://www.edison.com/content/dam/eix/documents/sustainability/eix-2018-sustainability-report.pdf.

[2] Based on SCE 2018 reported CO_2e intensity factor of 507 lbs/MWh subtracted by the CH_4 intensity factor of 0.033 lb/MWh and the N_20 intensity factor of 0.004 lb/MWh utilizing the IPCC Fourth Assessment Report global warming potentials of 25 and 298, respectively, to avoid double counting. Per methodology utilized in CalEEMod. Version 2016.3.2, User's Guide, however N2O and CH4 intensity factors based on US EPA eGRID2016 data.

[3] United State Environmental Protection Agency. 2018, February 15. eGRID2016 Total Output Emission Rates, WECC California Region. (CH_4 = 0.033 lbs/MWh & N_2O = 0.0004 lbs/MWh)

GHG Emissions from Energy Use

Electricity	2018 $MTCO_2e$/Year
Existing Land Use	174

Natural Gas	2018 $MTCO_2e$/Year
Existing Land Use	21

Summary	2018 $MTCO_2e$/Year
Existing Land Use	195

General Conversion Factors

lbs to kg	0.4536
kg to MTons	0.001
Mmbtu to Therm	0.1
Therms to kwh	29.30711111
kilowatt hrs to megawatt hrs	0.001
lbs to Tons	2000
Tons to MTon	0.9071847

Source: California Air Resources Board (CARB). 2010. Local Government Operations Protocol. Version 1.1. Appendix F, Standard Conversion Factors

	Global Warming Potentials (GWP)
CO_2	1
CH_4	28
N_2O	265

Source: Intergovernmental Panel on Climate Change (IPCC). 2013. Fifth Assessment Report: Climate Change 2013. New York: Cambridge University Press.

Criteria Air Pollutants from Natural Gas: Exising Land Use

Rate	lbs/MBTU					
Natural Gas	ROG	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Non-Residential	0.01078431	0.09803922	0.08235294	0.00058824	0.00745098	0.00745098

Source: CalEEMod Version 2016.3.2

Natural Gas	2018 lbs/day					
	ROG	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Existing Operations	0.011	0.104	0.087	0.001	0.008	0.008
Total	0.011	0.104	0.087	0.001	0.008	0.008

General Conversion Factors	
Mmbtu to Therm	0.1
lbs to Tons	2000
Tons to MTon	0.9071847

Source: California Air Resources Board (CARB). 2010. Local Government Operations Protocol. Version 1.1. Appendix F, Standard Conversion Factors