Appendix D1 Air Quality and Greenhouse Gas Analysis

Appendices

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Air Quality and Greenhouse Gas Appendix

Emissions Worksheet

Regional Construction Emissions Worksheet:

Option 1

3.1. Option 1 Rough Grading - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	3.62	3.04	27.20	27.60	0.06	1.12	1.03
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.62**	**3.04**	**27.20**	**27.60**	**0.06**	**4.71**	**2.45**
Offsite								
	Worker	0.08	0.07	0.08	1.29	0.00	0.26	0.06
	Vendor	0.05	0.02	0.69	0.33	0.01	0.18	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.13**	**0.09**	**0.77**	**1.62**	**0.01**	**0.44**	**0.11**
TOTAL		***3.75***	***3.13***	***27.97***	***29.22***	***0.07***	***5.15***	***2.56***
Onsite			**Winter**					
	Off-Road Equipment	3.62	3.04	27.20	27.60	0.06	1.12	1.03
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.62**	**3.04**	**27.20**	**27.60**	**0.06**	**4.71**	**2.45**
Offsite								
	Worker	0.08	0.07	0.09	1.10	0.00	0.26	0.06
	Vendor	0.04	0.02	0.72	0.34	0.01	0.18	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.12**	**0.09**	**0.81**	**1.44**	**0.01**	**0.44**	**0.11**
TOTAL		***3.74***	***3.13***	***28.01***	***29.04***	***0.07***	***5.15***	***2.56***
Onsite								
	Off-Road Equipment	3.62	3.04	27.20	27.60	0.06	1.12	1.03
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.62**	**3.04**	**27.20**	**27.60**	**0.06**	**4.71**	**2.45**
Offsite								
	Worker	0.08	0.07	0.09	1.29	0.00	0.26	0.06
	Vendor	0.05	0.02	0.72	0.34	0.01	0.18	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.13**	**0.09**	**0.81**	**1.62**	**0.01**	**0.44**	**0.11**
TOTAL		***3.75***	***3.13***	***28.01***	***29.22***	***0.07***	***5.15***	***2.56***

3.3. Option 1 Fine Grading (2027) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	3.51	2.95	25.60	27.30	0.06	1.04	0.96
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.51**	**2.95**	**25.60**	**27.30**	**0.06**	**4.63**	**2.38**
Offsite								
	Worker	0.08	0.07	0.07	1.20	0.00	0.26	0.06
	Vendor	0.04	0.02	0.66	0.31	0.01	0.18	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.12**	**0.09**	**0.73**	**1.51**	**0.01**	**0.44**	**0.11**
TOTAL		***3.63***	***3.04***	***26.33***	***28.81***	***0.07***	***5.07***	***2.49***
Onsite			**Winter**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	3.51	2.95	25.60	27.30	0.06	1.04	0.96
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.51**	**2.95**	**25.60**	**27.30**	**0.06**	**4.63**	**2.38**
Offsite								
	Worker	0.08	0.07	0.07	1.20	0.00	0.26	0.06
	Vendor	0.04	0.02	0.66	0.31	0.01	0.18	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.12**	**0.09**	**0.73**	**1.51**	**0.01**	**0.44**	**0.11**
TOTAL		***3.63***	***3.04***	***26.33***	***28.81***	***0.07***	***5.07***	***2.49***

3.5. Option 1 Building 1 Construction (2024) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.44	1.20	11.20	13.10	0.02	0.50	0.46
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.44**	**1.20**	**11.20**	**13.10**	**0.02**	**0.50**	**0.46**
Offsite								
	Worker	2.09	1.88	2.00	31.60	0.00	5.48	1.28
	Vendor	0.42	0.16	6.21	3.05	0.04	1.47	0.46
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.51**	**2.04**	**8.21**	**34.65**	**0.04**	**6.95**	**1.74**
TOTAL		***3.95***	***3.24***	***19.41***	***47.75***	***0.06***	***7.45***	***2.20***
Onsite			**Winter**					
	Off-Road Equipment	1.44	1.20	11.20	13.10	0.02	0.50	0.46
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.44**	**1.20**	**11.20**	**13.10**	**0.02**	**0.50**	**0.46**
Offsite								
	Worker	2.07	1.85	2.37	26.70	0.00	5.48	1.28
	Vendor	0.41	0.16	6.46	3.12	0.04	1.47	0.46
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.48**	**2.01**	**8.83**	**29.82**	**0.04**	**6.95**	**1.74**
TOTAL		***3.92***	***3.21***	***20.03***	***42.92***	***0.06***	***7.45***	***2.20***
Onsite								
	Off-Road Equipment	1.44	1.20	11.20	13.10	0.02	0.50	0.46
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.44**	**1.20**	**11.20**	**13.10**	**0.02**	**0.50**	**0.46**
Offsite								
	Worker	2.09	1.88	2.37	31.60	0.00	5.48	1.28
	Vendor	0.42	0.16	6.46	3.12	0.04	1.47	0.46
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.51**	**2.04**	**8.83**	**34.65**	**0.04**	**6.95**	**1.74**
TOTAL		***3.95***	***3.24***	***20.03***	***47.75***	***0.06***	***7.45***	***2.20***

3.7. Option 1 Building 1 Construction (2025) - Unmitigated

		TOG	ROG	NOx	CO	SO_2	PM10 Total	PM2.5Total
Onsite			**Summer**					
	Off-Road Equipment	1.35	1.13	10.40	13.00	0.02	0.43	0.40
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.35**	**1.13**	**10.40**	**13.00**	**0.02**	**0.43**	**0.40**
Offsite								
	Worker	2.00	1.80	1.82	29.20	0.00	5.48	1.28
	Vendor	0.37	0.15	5.90	2.88	0.04	1.47	0.42
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.37**	**1.95**	**7.72**	**32.08**	**0.04**	**6.95**	**1.70**
TOTAL		***3.72***	***3.08***	***18.12***	***45.08***	***0.06***	***7.38***	***2.10***
Onsite			**Winter**					
	Off-Road Equipment	1.35	1.13	10.40	13.00	0.02	0.43	0.40
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.35**	**1.13**	**10.40**	**13.00**	**0.02**	**0.43**	**0.40**
Offsite								
	Worker	1.99	1.78	2.01	24.70	0.00	5.48	1.28
	Vendor	0.37	0.15	6.15	2.92	0.04	1.47	0.42
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.36**	**1.93**	**8.16**	**27.62**	**0.04**	**6.95**	**1.70**
TOTAL		***3.71***	***3.06***	***18.56***	***40.62***	***0.06***	***7.38***	***2.10***
Onsite								
	Off-Road	1.35	1.13	10.40	13.00	0.02	0.43	0.40
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.35**	**1.13**	**10.40**	**13.00**	**0.02**	**0.43**	**0.40**
Offsite								
	Worker	2.00	1.80	2.01	29.20	0.00	5.48	1.28
	Vendor	0.37	0.15	6.15	2.92	0.04	1.47	0.42
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.37**	**1.95**	**8.16**	**32.08**	**0.04**	**6.95**	**1.70**
TOTAL		***3.72***	***3.08***	***18.56***	***45.08***	***0.06***	***7.38***	***2.10***

3.9. Option 1 Buildings 2 and 3 Construction (2026) - Unmitigated

		TOG	ROG	NOx	CO	SO_2	PM10 Total	PM2.5Total
Onsite			**Summer**					
	Off-Road Equipment	1.28	1.07	9.85	13.00	0.02	0.38	0.35
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.28**	**1.07**	**9.85**	**13.00**	**0.02**	**0.38**	**0.35**
Offsite								
	Worker	1.74	1.54	1.63	27.10	0.00	5.48	1.28
	Vendor	0.37	0.15	5.62	2.72	0.04	1.47	0.42
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.11**	**1.69**	**7.25**	**29.82**	**0.04**	**6.95**	**1.70**
TOTAL		***3.39***	***2.76***	***17.10***	***42.82***	***0.06***	***7.33***	***2.05***
Onsite			**Winter**					
	Off-Road Equipment	1.28	1.07	9.85	13.00	0.02	0.38	0.35
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.28**	**1.07**	**9.85**	**13.00**	**0.02**	**0.38**	**0.35**
Offsite								
	Worker	1.74	1.53	1.82	23.10	0.00	5.48	1.28
	Vendor	0.36	0.15	5.88	2.78	0.04	1.47	0.42
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.10**	**1.68**	**7.70**	**25.88**	**0.04**	**6.95**	**1.70**
TOTAL		***3.38***	***2.75***	***17.55***	***38.88***	***0.06***	***7.33***	***2.05***
Onsite								
	Off-Road	1.28	1.07	9.85	13.00	0.02	0.38	0.35
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.28**	**1.07**	**9.85**	**13.00**	**0.02**	**0.38**	**0.35**
Offsite								
	Worker	1.74	1.54	1.82	27.10	0.00	5.48	1.28
	Vendor	0.37	0.15	5.88	2.78	0.04	1.47	0.42
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.11**	**1.69**	**7.70**	**29.82**	**0.04**	**6.95**	**1.70**
TOTAL		***3.39***	***2.76***	***17.55***	***42.82***	***0.06***	***7.33***	***2.05***

3.11. Option 1 Buildings 2 and 3 Construction (2027) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.23	1.03	9.39	12.90	0.02	0.34	0.31
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.23**	**1.03**	**9.39**	**12.90**	**0.02**	**0.34**	**0.31**
Offsite								
	Worker	1.69	1.49	1.45	25.20	0.00	5.48	1.28
	Vendor	0.33	0.15	5.38	2.56	0.04	1.44	0.42
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.02**	**1.64**	**6.83**	**27.76**	**0.04**	**6.92**	**1.70**
TOTAL		***3.25***	***2.67***	***16.22***	***40.66***	***0.06***	***7.26***	***2.01***
Onsite			**Winter**					
	Off-Road Equipment	1.23	1.03	9.39	12.90	0.02	0.34	0.31
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.23**	**1.03**	**9.39**	**12.90**	**0.02**	**0.34**	**0.31**
Offsite								
	Worker	1.67	1.46	1.81	21.30	0.00	5.48	1.28
	Vendor	0.32	0.15	5.60	2.62	0.04	1.44	0.42
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.99**	**1.61**	**7.41**	**23.92**	**0.04**	**6.92**	**1.70**
TOTAL		***3.22***	***2.64***	***16.80***	***36.82***	***0.06***	***7.26***	***2.01***
Onsite								
	Off-Road Equipment	1.23	1.03	9.39	12.90	0.02	0.34	0.31
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.23**	**1.03**	**9.39**	**12.90**	**0.02**	**0.34**	**0.31**
Offsite								
	Worker	1.69	1.49	1.81	25.20	0.00	5.48	1.28
	Vendor	0.33	0.15	5.60	2.62	0.04	1.44	0.42
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.02**	**1.64**	**7.41**	**27.76**	**0.04**	**6.92**	**1.70**
TOTAL		***3.25***	***2.67***	***16.80***	***40.66***	***0.06***	***7.26***	***2.01***

3.13. Option 1 Building 1 Paving (2025) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	0.32
	Paving	0.00	0.89	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**1.69**	**7.45**	**9.98**	**0.01**	**0.35**	**0.32**
Offsite								
	Worker	0.07	0.06	0.06	1.04	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.06**	**0.06**	**1.04**	**0.00**	**0.20**	**0.05**
TOTAL		***1.02***	***1.75***	***7.51***	***11.02***	***0.01***	***0.55***	***0.37***
Onsite			**Winter**					
	Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	0.32
	Paving	0.00	0.89	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**1.69**	**7.45**	**9.98**	**0.01**	**0.35**	**0.32**
Offsite								
	Worker	0.07	0.06	0.07	0.88	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.06**	**0.07**	**0.88**	**0.00**	**0.20**	**0.05**
TOTAL		***1.02***	***1.75***	***7.52***	***10.86***	***0.01***	***0.55***	***0.37***
Onsite								
	Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	0.32
	Paving	0.00	0.89	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**1.69**	**7.45**	**9.98**	**0.01**	**0.35**	**0.32**
Offsite								
	Worker	0.07	0.06	0.07	1.04	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.06**	**0.07**	**1.04**	**0.00**	**0.20**	**0.05**
TOTAL		***1.02***	***1.75***	***7.52***	***11.02***	***0.01***	***0.55***	***0.37***

3.15. Option 1 Building 1 Architectural Coating (2025) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.15	0.13	0.88	1.14	0.01	0.03	0.03
	Architectural Coatings	0.00	6.54	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.15**	**6.67**	**0.88**	**1.14**	**0.01**	**0.03**	**0.03**
Offsite								
	Worker	0.80	0.72	0.73	11.70	0.00	2.19	0.51
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.80**	**0.72**	**0.73**	**11.70**	**0.00**	**2.19**	**0.51**
TOTAL		***0.95***	***7.39***	***1.61***	***12.84***	***0.01***	***2.22***	***0.54***
Onsite			**Winter**					
	Off-Road Equipment	0.15	0.13	0.88	1.14	0.01	0.03	0.03
	Architectural Coatings	0.00	6.54	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.15**	**6.67**	**0.88**	**1.14**	**0.01**	**0.03**	**0.03**
Offsite								
	Worker	0.79	0.71	0.81	9.89	0.00	2.19	0.51
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.79**	**0.71**	**0.81**	**9.89**	**0.00**	**2.19**	**0.51**
TOTAL		***0.94***	***7.38***	***1.69***	***11.03***	***0.01***	***2.22***	***0.54***
Onsite								
	Off-Road Equipment	0.15	0.13	0.88	1.14	0.01	0.03	0.03
	Architectural Coatings	0.00	6.54	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.15**	**6.67**	**0.88**	**1.14**	**0.01**	**0.03**	**0.03**
Offsite								
	Worker	0.80	0.72	0.81	11.70	0.00	2.19	0.51
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.80**	**0.72**	**0.81**	**11.70**	**0.00**	**2.19**	**0.51**
TOTAL		***0.95***	***7.39***	***1.69***	***12.84***	***0.01***	***2.22***	***0.54***

3.17. Option 1 Buildings 2 and 3 Architectural Coating (2027) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.14	0.11	0.83	1.13	0.01	0.02	0.02
	Onsite truck	0.00	81.70	0.00	0.00	0.00	0.00	0.00
	Total	**0.14**	**81.81**	**0.83**	**1.13**	**0.01**	**0.02**	**0.02**
Offsite								
	Worker	0.68	0.60	0.58	10.10	0.00	2.20	0.51
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.68**	**0.60**	**0.58**	**10.10**	**0.00**	**2.20**	**0.51**
TOTAL		***0.82***	***82.41***	***1.41***	***11.23***	***0.01***	***2.22***	***0.53***
Onsite			**Winter**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	0.14	0.11	0.83	1.13	0.01	0.02	0.02
	Onsite truck	0.00	81.70	0.00	0.00	0.00	0.00	0.00
	Total	**0.14**	**81.81**	**0.83**	**1.13**	**0.01**	**0.02**	**0.02**
Offsite								
	Worker	0.68	0.60	0.58	10.10	0.00	2.20	0.51
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.68**	**0.60**	**0.58**	**10.10**	**0.00**	**2.20**	**0.51**
TOTAL		***0.82***	***82.41***	***1.41***	***11.23***	***0.01***	***2.22***	***0.53***

3.19. Option 1 Building 1 Utility Trenching (2024) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.93	1.62	13.50	13.80	0.03	0.64	0.59
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.93**	**1.62**	**13.50**	**13.80**	**0.03**	**0.64**	**0.59**
Offsite								
	Worker	0.07	0.07	0.07	1.13	0.00	0.20	0.05
	Vendor	0.02	0.01	0.23	0.11	0.01	0.05	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.09**	**0.08**	**0.30**	**1.24**	**0.01**	**0.25**	**0.07**
TOTAL		***2.02***	***1.70***	***13.80***	***15.04***	***0.04***	***0.89***	***0.66***
Onsite			**Winter**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	1.93	1.62	13.50	13.80	0.03	0.64	0.59
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.93**	**1.62**	**13.50**	**13.80**	**0.03**	**0.64**	**0.59**
Offsite								
	Worker	0.07	0.07	0.07	1.13	0.00	0.20	0.05
	Vendor	0.02	0.01	0.23	0.11	0.01	0.05	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.09**	**0.08**	**0.30**	**1.24**	**0.01**	**0.25**	**0.07**
TOTAL		***2.02***	***1.70***	***13.80***	***15.04***	***0.04***	***0.89***	***0.66***

3.21. Option 1 Buildings 2 and 3 Utility Trenching (2026) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.76	1.48	11.40	13.70	0.03	0.51	0.47
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.76**	**1.48**	**11.40**	**13.70**	**0.03**	**0.51**	**0.47**
Offsite								
	Worker	0.06	0.06	0.06	0.97	0.00	0.20	0.05
	Vendor	0.01	0.01	0.21	0.10	0.01	0.05	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.07**	**0.27**	**1.07**	**0.01**	**0.25**	**0.07**
TOTAL		***1.83***	***1.55***	***11.67***	***14.77***	***0.04***	***0.76***	***0.54***
Onsite			**Winter**					
	Off-Road Equipment	1.76	1.48	11.40	13.70	0.03	0.51	0.47
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.76**	**1.48**	**11.40**	**13.70**	**0.03**	**0.51**	**0.47**
Offsite								
	Worker	0.06	0.05	0.07	0.83	0.00	0.20	0.05
	Vendor	0.01	0.01	0.22	0.10	0.01	0.05	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.06**	**0.29**	**0.93**	**0.01**	**0.25**	**0.07**
TOTAL		***1.83***	***1.54***	***11.69***	***14.63***	***0.04***	***0.76***	***0.54***
Onsite								
	Off-Road Equipment	1.76	1.48	11.40	13.70	0.03	0.51	0.47
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.76**	**1.48**	**11.40**	**13.70**	**0.03**	**0.51**	**0.47**
Offsite								
	Worker	0.06	0.06	0.07	0.97	0.00	0.20	0.05
	Vendor	0.01	0.01	0.22	0.10	0.01	0.05	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.07**	**0.29**	**1.07**	**0.01**	**0.25**	**0.07**
TOTAL		***1.83***	***1.55***	***11.69***	***14.77***	***0.04***	***0.76***	***0.54***

3.23. Option 1 Finishing/Landscaping (2027) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.70	1.43	10.70	13.60	0.03	0.47	0.43
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.70**	**1.43**	**10.70**	**13.60**	**0.03**	**0.47**	**0.43**
Offsite								
	Worker	0.06	0.05	0.05	0.90	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.05**	**0.05**	**0.90**	**0.00**	**0.20**	**0.05**
TOTAL		***1.76***	***1.48***	***10.75***	***14.50***	***0.03***	***0.67***	***0.48***
Onsite			**Winter**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	1.70	1.43	10.70	13.60	0.03	0.47	0.43
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.70**	**1.43**	**10.70**	**13.60**	**0.03**	**0.47**	**0.43**
Offsite								
	Worker	0.06	0.05	0.05	0.90	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.05**	**0.05**	**0.90**	**0.00**	**0.20**	**0.05**
TOTAL		***1.76***	***1.48***	***10.75***	***14.50***	***0.03***	***0.67***	***0.48***

Phase 2

3.1. Option 2 Rough Grading - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	3.62	3.04	27.20	27.60	0.06	1.12	1.03
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.62**	**3.04**	**27.20**	**27.60**	**0.06**	**4.71**	**2.45**
Offsite								
	Worker	0.08	0.07	0.08	1.29	0.00	0.26	0.06
	Vendor	0.05	0.02	0.69	0.33	0.01	0.18	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.13**	**0.09**	**0.77**	**1.62**	**0.01**	**0.44**	**0.11**
TOTAL		***3.75***	***3.13***	***27.97***	***29.22***	***0.07***	***5.15***	***2.56***
Onsite			**Winter**					
	Off-Road Equipment	3.62	3.04	27.20	27.60	0.06	1.12	1.03
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.62**	**3.04**	**27.20**	**27.60**	**0.06**	**4.71**	**2.45**
Offsite								
	Worker	0.08	0.07	0.09	1.10	0.00	0.26	0.06
	Vendor	0.04	0.02	0.72	0.34	0.01	0.18	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.12**	**0.09**	**0.81**	**1.44**	**0.01**	**0.44**	**0.11**
TOTAL		***3.74***	***3.13***	***28.01***	***29.04***	***0.07***	***5.15***	***2.56***
Onsite								
	Off-Road Equipment	3.62	3.04	27.20	27.60	0.06	1.12	1.03
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.62**	**3.04**	**27.20**	**27.60**	**0.06**	**4.71**	**2.45**
Offsite								
	Worker	0.08	0.07	0.09	1.29	0.00	0.26	0.06
	Vendor	0.05	0.02	0.72	0.34	0.01	0.18	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.13**	**0.09**	**0.81**	**1.62**	**0.01**	**0.44**	**0.11**
TOTAL		***3.75***	***3.13***	***28.01***	***29.22***	***0.07***	***5.15***	***2.56***

3.3. Option 2 Fine Grading (2027) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	3.51	2.95	25.60	27.30	0.06	1.04	0.96
	Onsite truck	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Total	**3.51**	**2.95**	**25.60**	**27.30**	**0.06**	**4.63**	**2.38**
Offsite								
	Worker	0.08	0.07	0.07	1.20	0.00	0.26	0.06
	Vendor	0.04	0.02	0.66	0.31	0.01	0.18	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.12**	**0.09**	**0.73**	**1.51**	**0.01**	**0.44**	**0.11**
TOTAL		***3.63***	***3.04***	***26.33***	***28.81***	***0.07***	***5.07***	***2.49***
Onsite			**Winter**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	3.51	2.95	25.60	27.30	0.06	1.04	0.96
	Onsite truck	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Total	**3.51**	**2.95**	**25.60**	**27.30**	**0.06**	**4.63**	**2.38**
Offsite								
	Worker	0.08	0.07	0.07	1.20	0.00	0.26	0.06
	Vendor	0.04	0.02	0.66	0.31	0.01	0.18	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.12**	**0.09**	**0.73**	**1.51**	**0.01**	**0.44**	**0.11**
TOTAL		***3.63***	***3.04***	***26.33***	***28.81***	***0.07***	***5.07***	***2.49***

3.5. Option 2 BESS Construction (2024) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.44	1.20	11.20	13.10	0.02	0.50	0.46
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.44**	**1.20**	**11.20**	**13.10**	**0.02**	**0.50**	**0.46**
Offsite								
	Worker	1.47	1.33	1.41	22.30	0.00	3.87	0.91
	Vendor	0.29	0.11	4.38	2.15	0.03	1.04	0.32
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.76**	**1.44**	**5.79**	**24.45**	**0.03**	**4.91**	**1.23**
TOTAL		***3.20***	***2.64***	***16.99***	***37.55***	***0.05***	***5.41***	***1.69***
Onsite			**Winter**					
	Off-Road Equipment	1.44	1.20	11.20	13.10	0.02	0.50	0.46
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.44**	**1.20**	**11.20**	**13.10**	**0.02**	**0.50**	**0.46**
Offsite								
	Worker	1.46	1.31	1.68	18.90	0.00	3.87	0.91
	Vendor	0.29	0.11	4.56	2.20	0.03	1.04	0.32
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.75**	**1.42**	**6.24**	**21.10**	**0.03**	**4.91**	**1.23**
TOTAL		***3.19***	***2.62***	***17.44***	***34.20***	***0.05***	***5.41***	***1.69***
Onsite								
	Off-Road Equipment	1.44	1.20	11.20	13.10	0.02	0.50	0.46
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.44**	**1.20**	**11.20**	**13.10**	**0.02**	**0.50**	**0.46**
Offsite								
	Worker	1.47	1.33	1.68	22.30	0.00	3.87	0.91
	Vendor	0.29	0.11	4.56	2.20	0.03	1.04	0.32
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.76**	**1.44**	**6.24**	**24.45**	**0.03**	**4.91**	**1.23**
TOTAL		***3.20***	***2.64***	***17.44***	***37.55***	***0.05***	***5.41***	***1.69***

3.7. Option 2 BESS Construction (2025) - Unmitigated

		TOG	ROG	NOx	CO	SO_2	PM10 Total	PM2.5Total
Onsite			**Summer**					
	Off-Road Equipment	1.35	1.13	10.40	13.00	0.02	0.43	0.40
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.35**	**1.13**	**10.40**	**13.00**	**0.02**	**0.43**	**0.40**
Offsite								
	Worker	1.41	1.27	1.28	20.60	0.00	3.87	0.91
	Vendor	0.26	0.11	4.16	2.04	0.03	1.04	0.30
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.67**	**1.38**	**5.44**	**22.64**	**0.03**	**4.91**	**1.21**
TOTAL		***3.02***	***2.51***	***15.84***	***35.64***	***0.05***	***5.34***	***1.61***
Onsite			**Winter**					
	Off-Road Equipment	1.35	1.13	10.40	13.00	0.02	0.43	0.40
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.35**	**1.13**	**10.40**	**13.00**	**0.02**	**0.43**	**0.40**
Offsite								
	Worker	1.40	1.25	1.42	17.40	0.00	3.87	0.91
	Vendor	0.26	0.11	4.34	2.06	0.03	1.04	0.30
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.66**	**1.36**	**5.76**	**19.46**	**0.03**	**4.91**	**1.21**
TOTAL		***3.01***	***2.49***	***16.16***	***32.46***	***0.05***	***5.34***	***1.61***
Onsite								
	Off-Road	1.35	1.13	10.40	13.00	0.02	0.43	0.40
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.35**	**1.13**	**10.40**	**13.00**	**0.02**	**0.43**	**0.40**
Offsite								
	Worker	1.41	1.27	1.42	20.60	0.00	3.87	0.91
	Vendor	0.26	0.11	4.34	2.06	0.03	1.04	0.30
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.67**	**1.38**	**5.76**	**22.64**	**0.03**	**4.91**	**1.21**
TOTAL		***3.02***	***2.51***	***16.16***	***35.64***	***0.05***	***5.34***	***1.61***

3.9. Option 2 Buildings 1 and 2 Construction (2026) - Unmitigated

		TOG	ROG	NOx	CO	SO_2	PM10 Total	PM2.5Total
Onsite			**Summer**					
	Off-Road Equipment	1.28	1.07	9.85	13.00	0.02	0.38	0.35
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.28**	**1.07**	**9.85**	**13.00**	**0.02**	**0.38**	**0.35**
Offsite								
	Worker	1.23	1.09	1.15	19.10	0.00	3.87	0.91
	Vendor	0.26	0.11	3.97	1.92	0.03	1.04	0.30
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.49**	**1.20**	**5.12**	**21.02**	**0.03**	**4.91**	**1.21**
TOTAL		***2.77***	***2.27***	***14.97***	***34.02***	***0.05***	***5.29***	***1.56***
Onsite			**Winter**					
	Off-Road Equipment	1.28	1.07	9.85	13.00	0.02	0.38	0.35
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.28**	**1.07**	**9.85**	**13.00**	**0.02**	**0.38**	**0.35**
Offsite								
	Worker	1.23	1.08	1.29	16.30	0.00	3.87	0.91
	Vendor	0.25	0.10	4.15	1.96	0.03	1.04	0.30
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.48**	**1.18**	**5.44**	**18.26**	**0.03**	**4.91**	**1.21**
TOTAL		***2.76***	***2.25***	***15.29***	***31.26***	***0.05***	***5.29***	***1.56***
Onsite								
	Off-Road	1.28	1.07	9.85	13.00	0.02	0.38	0.35
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.28**	**1.07**	**9.85**	**13.00**	**0.02**	**0.38**	**0.35**
Offsite								
	Worker	1.23	1.09	1.29	19.10	0.00	3.87	0.91
	Vendor	0.26	0.11	4.15	1.96	0.03	1.04	0.30
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.49**	**1.20**	**5.44**	**21.02**	**0.03**	**4.91**	**1.21**
TOTAL		***2.77***	***2.27***	***15.29***	***34.02***	***0.05***	***5.29***	***1.56***

3.11. Option 2 Buildings 1 and 2 Construction (2027) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.23	1.03	9.39	12.90	0.02	0.34	0.31
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.23**	**1.03**	**9.39**	**12.90**	**0.02**	**0.34**	**0.31**
Offsite								
	Worker	1.19	1.05	1.02	17.80	0.00	3.87	0.91
	Vendor	0.23	0.11	3.80	1.81	0.03	1.01	0.30
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.42**	**1.16**	**4.82**	**19.61**	**0.03**	**4.88**	**1.21**
TOTAL		***2.65***	***2.19***	***14.21***	***32.51***	***0.05***	***5.22***	***1.52***
Onsite			**Winter**					
	Off-Road Equipment	1.23	1.03	9.39	12.90	0.02	0.34	0.31
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.23**	**1.03**	**9.39**	**12.90**	**0.02**	**0.34**	**0.31**
Offsite								
	Worker	1.18	1.03	1.27	15.00	0.00	3.87	0.91
	Vendor	0.23	0.10	3.95	1.85	0.03	1.01	0.30
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.41**	**1.13**	**5.22**	**16.85**	**0.03**	**4.88**	**1.21**
TOTAL		***2.64***	***2.16***	***14.61***	***29.75***	***0.05***	***5.22***	***1.52***
Onsite								
	Off-Road Equipment	1.23	1.03	9.39	12.90	0.02	0.34	0.31
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.23**	**1.03**	**9.39**	**12.90**	**0.02**	**0.34**	**0.31**
Offsite								
	Worker	1.19	1.05	1.27	17.80	0.00	3.87	0.91
	Vendor	0.23	0.11	3.95	1.85	0.03	1.01	0.30
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.42**	**1.16**	**5.22**	**19.61**	**0.03**	**4.88**	**1.21**
TOTAL		***2.65***	***2.19***	***14.61***	***32.51***	***0.05***	***5.22***	***1.52***

3.13. Option 2 Paving (2025) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	0.32
	Paving	0.00	0.64	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**1.44**	**7.45**	**9.98**	**0.01**	**0.35**	**0.32**
Offsite								
	Worker	0.07	0.06	0.06	1.04	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.06**	**0.06**	**1.04**	**0.00**	**0.20**	**0.05**
TOTAL		***1.02***	***1.50***	***7.51***	***11.02***	***0.01***	***0.55***	***0.37***
Onsite			**Winter**					
	Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	0.32
	Paving	0.00	0.64	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**1.44**	**7.45**	**9.98**	**0.01**	**0.35**	**0.32**
Offsite								
	Worker	0.07	0.06	0.07	0.88	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.06**	**0.07**	**0.88**	**0.00**	**0.20**	**0.05**
TOTAL		***1.02***	***1.50***	***7.52***	***10.86***	***0.01***	***0.55***	***0.37***
Onsite								
	Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	0.32
	Paving	0.00	0.64	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**1.44**	**7.45**	**9.98**	**0.01**	**0.35**	**0.32**
Offsite								
	Worker	0.07	0.06	0.07	1.04	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.06**	**0.07**	**1.04**	**0.00**	**0.20**	**0.05**
TOTAL		***1.02***	***1.50***	***7.52***	***11.02***	***0.01***	***0.55***	***0.37***

3.15. Option 2 Buildings 1 and 2 Architectural Coating (2025) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.82	0.68	4.99	6.75	0.01	0.11	0.11
	Architectural Coatings	0.00	63.50	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.82**	**64.18**	**4.99**	**6.75**	**0.01**	**0.11**	**0.11**
Offsite								
	Worker	0.48	0.42	0.41	7.10	0.00	1.55	0.36
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.48**	**0.42**	**0.41**	**7.10**	**0.00**	**1.55**	**0.36**
TOTAL		***1.30***	***64.60***	***5.40***	***13.85***	***0.01***	***1.66***	***0.47***
Onsite			**Winter**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Architectural Coatings	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	0.82	0.68	4.99	6.75	0.01	0.11	0.11
	Architectural Coatings	0.00	63.50	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.82**	**64.18**	**4.99**	**6.75**	**0.01**	**0.11**	**0.11**
Offsite								
	Worker	0.48	0.42	0.41	7.10	0.00	1.55	0.36
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.48**	**0.42**	**0.41**	**7.10**	**0.00**	**1.55**	**0.36**
TOTAL		***1.30***	***64.60***	***5.40***	***13.85***	***0.01***	***1.66***	***0.47***

3.17. Option 2 BESS Utility Trenching (2024) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.93	1.62	13.50	13.80	0.03	0.64	0.59
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.93**	**1.62**	**13.50**	**13.80**	**0.03**	**0.64**	**0.59**
Offsite								
	Worker	0.07	0.07	0.07	1.13	0.00	0.20	0.05
	Vendor	0.02	0.01	0.23	0.11	0.01	0.05	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.09**	**0.08**	**0.30**	**1.24**	**0.01**	**0.25**	**0.07**
TOTAL		***2.02***	***1.70***	***13.80***	***15.04***	***0.04***	***0.89***	***0.66***
Onsite			**Winter**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	1.93	1.62	13.50	13.80	0.03	0.64	0.59
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.93**	**1.62**	**13.50**	**13.80**	**0.03**	**0.64**	**0.59**
Offsite								
	Worker	0.07	0.07	0.07	1.13	0.00	0.20	0.05
	Vendor	0.02	0.01	0.23	0.11	0.01	0.05	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.09**	**0.08**	**0.30**	**1.24**	**0.01**	**0.25**	**0.07**
TOTAL		***2.02***	***1.70***	***13.80***	***15.04***	***0.04***	***0.89***	***0.66***

3.19. Option 2 Buildings 1 and 2 Utility Trenching (2026) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.76	1.48	11.40	13.70	0.03	0.51	0.47
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.76**	**1.48**	**11.40**	**13.70**	**0.03**	**0.51**	**0.47**
Offsite								
	Worker	0.06	0.06	0.06	0.97	0.00	0.20	0.05
	Vendor	0.01	0.01	0.21	0.10	0.01	0.05	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.07**	**0.27**	**1.07**	**0.01**	**0.25**	**0.07**
TOTAL		***1.83***	***1.55***	***11.67***	***14.77***	***0.04***	***0.76***	***0.54***
Onsite			**Winter**					
	Off-Road Equipment	1.76	1.48	11.40	13.70	0.03	0.51	0.47
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.76**	**1.48**	**11.40**	**13.70**	**0.03**	**0.51**	**0.47**
Offsite								
	Worker	0.06	0.05	0.07	0.83	0.00	0.20	0.05
	Vendor	0.01	0.01	0.22	0.10	0.01	0.05	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.06**	**0.29**	**0.93**	**0.01**	**0.25**	**0.07**
TOTAL		***1.83***	***1.54***	***11.69***	***14.63***	***0.04***	***0.76***	***0.54***
Onsite								
	Off-Road Equipment	1.76	1.48	11.40	13.70	0.03	0.51	0.47
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.76**	**1.48**	**11.40**	**13.70**	**0.03**	**0.51**	**0.47**
Offsite								
	Worker	0.06	0.06	0.07	0.97	0.00	0.20	0.05
	Vendor	0.01	0.01	0.22	0.10	0.01	0.05	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.07**	**0.29**	**1.07**	**0.01**	**0.25**	**0.07**
TOTAL		***1.83***	***1.55***	***11.69***	***14.77***	***0.04***	***0.76***	***0.54***

3.21. Option 2 Finishing/Landscaping (2027) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.70	1.43	10.70	13.60	0.03	0.47	0.43
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.70**	**1.43**	**10.70**	**13.60**	**0.03**	**0.47**	**0.43**
Offsite								
	Worker	0.06	0.05	0.05	0.90	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.05**	**0.05**	**0.90**	**0.00**	**0.20**	**0.05**
TOTAL		***1.76***	***1.48***	***10.75***	***14.50***	***0.03***	***0.67***	***0.48***
Onsite			**Winter**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	1.70	1.43	10.70	13.60	0.03	0.47	0.43
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.70**	**1.43**	**10.70**	**13.60**	**0.03**	**0.47**	**0.43**
Offsite								
	Worker	0.06	0.05	0.05	0.90	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.05**	**0.05**	**0.90**	**0.00**	**0.20**	**0.05**
TOTAL		***1.76***	***1.48***	***10.75***	***14.50***	***0.03***	***0.67***	***0.48***

Offsite Improvements

3.1. Linear, Grubbing & Land Clearing (2025) - Unmitigated

		TOG	ROG	NOx	CO	SO_2	PM10 Total	PM2.5Total
Onsite			**Summer**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite			**Winter**					
	Off-Road Equipment	0.46	0.39	3.39	3.49	0.01	0.21	0.19
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.21	0.02
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.46**	**0.39**	**3.39**	**3.49**	**0.01**	**0.42**	**0.21**
Offsite								
	Worker	0.02	0.02	0.02	0.29	0.00	0.07	0.02
	Vendor	0.01	0.01	0.15	0.07	0.01	0.04	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.03**	**0.03**	**0.17**	**0.36**	**0.01**	**0.11**	**0.03**
TOTAL		***0.49***	***0.42***	***3.56***	***3.85***	***0.01***	***0.53***	***0.24***
Onsite								
	Off-Road Equipment	0.46	0.39	3.39	3.49	0.01	0.21	0.19
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.21	0.02
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.46**	**0.39**	**3.39**	**3.49**	**0.01**	**0.42**	**0.21**
Offsite								
	Worker	0.02	0.02	0.02	0.29	0.00	0.07	0.02
	Vendor	0.01	0.01	0.15	0.07	0.01	0.04	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.03**	**0.03**	**0.17**	**0.36**	**0.01**	**0.11**	**0.03**
TOTAL		***0.49***	***0.42***	***3.56***	***3.85***	***0.01***	***0.53***	***0.24***

3.3. Linear, Grading & Excavation (2025) - Unmitigated

		TOG	ROG	NOx	CO	SO_2	PM10 Total	PM2.5Total
Onsite			**Summer**					
	Off-Road Equipment	3.71	3.11	27.30	29.40	0.06	1.21	1.11
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	1.24	0.13
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.71**	**3.11**	**27.30**	**29.40**	**0.06**	**2.45**	**1.24**
Offsite								
	Worker	0.14	0.13	0.13	2.09	0.00	0.39	0.09
	Vendor	0.06	0.02	0.90	0.44	0.01	0.23	0.06
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.20**	**0.15**	**1.03**	**2.53**	**0.01**	**0.62**	**0.15**
TOTAL		***3.91***	***3.26***	***28.33***	***31.93***	***0.07***	***3.07***	***1.39***
Onsite			**Winter**					
	Off-Road Equipment	3.71	3.11	27.30	29.40	0.06	1.21	1.11
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	1.24	0.13
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.71**	**3.11**	**27.30**	**29.40**	**0.06**	**2.45**	**1.24**
Offsite								
	Worker	0.14	0.13	0.14	1.77	0.00	0.39	0.09
	Vendor	0.06	0.02	0.94	0.45	0.01	0.23	0.06
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.20**	**0.15**	**1.08**	**2.22**	**0.01**	**0.62**	**0.15**
TOTAL		***3.91***	***3.26***	***28.38***	***31.62***	***0.07***	***3.07***	***1.39***
Onsite								
	Off-Road Equipment	3.71	3.11	27.30	29.40	0.06	1.21	1.11
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	1.24	0.13
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.71**	**3.11**	**27.30**	**29.40**	**0.06**	**2.45**	**1.24**
Offsite								
	Worker	0.14	0.13	0.14	2.09	0.00	0.39	0.09
	Vendor	0.06	0.02	0.94	0.45	0.01	0.23	0.06
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.20**	**0.15**	**1.08**	**2.53**	**0.01**	**0.62**	**0.15**
TOTAL		***3.91***	***3.26***	***28.38***	***31.93***	***0.07***	***3.07***	***1.39***

3.5. Linear, Drainage, Utilities, & Sub-Grade (2025) - Unmitigated

		TOG	ROG	NOx	CO	SO_2	PM10 Total	PM2.5Total
Onsite			**Summer**					
	Off-Road Equipment	2.99	2.51	22.90	23.60	0.05	0.91	0.84
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	1.03	0.11
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.99**	**2.51**	**22.90**	**23.60**	**0.05**	**1.94**	**0.95**
Offsite								
	Worker	0.12	0.11	0.11	1.74	0.00	0.33	0.08
	Vendor	0.04	0.02	0.65	0.32	0.01	0.16	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.16**	**0.13**	**0.76**	**2.06**	**0.01**	**0.49**	**0.13**
TOTAL		***3.15***	***2.64***	***23.66***	***25.66***	***0.06***	***2.43***	***1.08***
Onsite			**Winter**					
	Off-Road Equipment	2.99	2.51	22.90	23.60	0.05	0.91	0.84
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	1.03	0.11
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.99**	**2.51**	**22.90**	**23.60**	**0.05**	**1.94**	**0.95**
Offsite								
	Worker	0.12	0.11	0.12	1.47	0.00	0.33	0.08
	Vendor	0.04	0.02	0.68	0.32	0.01	0.16	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.16**	**0.13**	**0.80**	**1.79**	**0.01**	**0.49**	**0.13**
TOTAL		***3.15***	***2.64***	***23.70***	***25.39***	***0.06***	***2.43***	***1.08***
Onsite								
	Off-Road	2.99	2.51	22.90	23.60	0.05	0.91	0.84
	Demolition	0.00	0.00	0.00	0.00	0.00	1.03	0.11
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.99**	**2.51**	**22.90**	**23.60**	**0.05**	**1.94**	**0.95**
Offsite								
	Worker	0.12	0.11	0.12	1.74	0.00	0.33	0.08
	Vendor	0.04	0.02	0.68	0.32	0.01	0.16	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.16**	**0.13**	**0.80**	**2.06**	**0.01**	**0.49**	**0.13**
TOTAL		***3.15***	***2.64***	***23.70***	***25.66***	***0.06***	***2.43***	***1.08***

3.7. Linear, Paving (2025) - Unmitigated

		TOG	ROG	NOx	CO	SO_2	PM10 Total	PM2.5Total
Onsite			**Summer**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite			**Winter**					
	Off-Road Equipment	1.06	0.89	7.71	10.80	0.01	0.34	0.31
	Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.06**	**0.89**	**7.71**	**10.80**	**0.01**	**0.34**	**0.31**
Offsite								
	Worker	0.08	0.07	0.08	1.03	0.00	0.23	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.08**	**0.07**	**0.08**	**1.03**	**0.00**	**0.23**	**0.05**
TOTAL		***1.14***	***0.96***	***7.79***	***11.83***	***0.01***	***0.57***	***0.36***
Onsite								
	Off-Road	1.06	0.89	7.71	10.80	0.01	0.34	0.31
	Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.06**	**0.89**	**7.71**	**10.80**	**0.01**	**0.34**	**0.31**
Offsite								
	Worker	0.08	0.07	0.08	1.03	0.00	0.23	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.08**	**0.07**	**0.08**	**1.03**	**0.00**	**0.23**	**0.05**
TOTAL		***1.14***	***0.96***	***7.79***	***11.83***	***0.01***	***0.57***	***0.36***

Sewer Main and Storm Drain Site (Public)

3.1. Site Preparation (2025)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite			**Winter**					
	Off-Road Equipment	1.42	1.19	10.90	11.00	0.03	0.47	0.43
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.62	0.07
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.42**	**1.19**	**10.90**	**11.00**	**0.03**	**1.09**	**0.50**
Offsite								
	Worker	0.04	0.03	0.04	0.44	0.00	0.10	0.02
	Vendor	0.02	0.01	0.38	0.18	0.01	0.09	0.03
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.04**	**0.42**	**0.62**	**0.01**	**0.19**	**0.05**
TOTAL		***1.48***	***1.23***	***11.32***	***11.62***	***0.04***	***1.28***	***0.55***
Onsite								
	Off-Road Equipment	1.42	1.19	10.90	11.00	0.03	0.47	0.43
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.62	0.07
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.42**	**1.19**	**10.90**	**11.00**	**0.03**	**1.09**	**0.50**
Offsite								
	Hauling	0.04	0.03	0.04	0.44	0.00	0.10	0.02
	Vendor	0.02	0.01	0.38	0.18	0.01	0.09	0.03
	Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.04**	**0.42**	**0.62**	**0.01**	**0.19**	**0.05**
TOTAL		***1.48***	***1.23***	***11.32***	***11.62***	***0.04***	***1.28***	***0.55***

3.3. Building Construction (2025)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.95	0.79	7.00	8.10	0.02	0.27	0.25
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**0.79**	**7.00**	**8.10**	**0.02**	**0.27**	**0.25**
Offsite								
	Worker	0.03	0.03	0.03	0.42	0.00	0.08	0.02
	Vendor	0.01	0.01	0.07	0.04	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.04**	**0.04**	**0.10**	**0.46**	**0.01**	**0.10**	**0.03**
TOTAL		***0.99***	***0.83***	***7.10***	***8.56***	***0.03***	***0.37***	***0.28***
Onsite			**Winter**					
	Off-Road Equipment	0.95	0.79	7.00	8.10	0.02	0.27	0.25
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**0.79**	**7.00**	**8.10**	**0.02**	**0.27**	**0.25**
Offsite								
	Worker	0.03	0.03	0.03	0.35	0.00	0.08	0.02
	Vendor	0.01	0.01	0.08	0.04	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.04**	**0.04**	**0.11**	**0.39**	**0.01**	**0.10**	**0.03**
TOTAL		***0.99***	***0.83***	***7.11***	***8.49***	***0.03***	***0.37***	***0.28***
Onsite								
	Off-Road Equipment	0.95	0.79	7.00	8.10	0.02	0.27	0.25
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**0.79**	**7.00**	**8.10**	**0.02**	**0.27**	**0.25**
Offsite								
	Worker	0.03	0.03	0.03	0.42	0.00	0.08	0.02
	Vendor	0.01	0.01	0.08	0.04	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.04**	**0.04**	**0.11**	**0.46**	**0.01**	**0.10**	**0.03**
TOTAL		***0.99***	***0.83***	***7.11***	***8.56***	***0.03***	***0.37***	***0.28***

3.5. Paving (2025) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite			**Winter**					
	Off-Road Equipment	0.83	0.70	6.13	8.21	0.01	0.27	0.25
	Onsite truck	0.00	0.01	0.00	0.00	0.00	0.00	0.00
	Total	**0.83**	**0.71**	**6.13**	**8.21**	**0.01**	**0.27**	**0.25**
Offsite								
	Worker	0.07	0.06	0.07	0.88	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.06**	**0.07**	**0.88**	**0.00**	**0.20**	**0.05**
TOTAL		***0.90***	***0.77***	***6.20***	***9.09***	***0.01***	***0.47***	***0.30***
Onsite								
	Off-Road Equipment	0.83	0.70	6.13	8.21	0.01	0.27	0.25
	Onsite truck	0.00	0.01	0.00	0.00	0.00	0.00	0.00
	Total	**0.83**	**0.71**	**6.13**	**8.21**	**0.01**	**0.27**	**0.25**
Offsite								
	Worker	0.07	0.06	0.07	0.88	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.06**	**0.07**	**0.88**	**0.00**	**0.20**	**0.05**
TOTAL		***0.90***	***0.77***	***6.20***	***9.09***	***0.01***	***0.47***	***0.30***

3.7. Trenching (2025)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.41	0.34	2.96	3.77	0.01	0.10	0.09
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.41**	**0.34**	**2.96**	**3.77**	**0.01**	**0.10**	**0.09**
Offsite								
	Worker	0.05	0.04	0.04	0.70	0.00	0.13	0.03
	Vendor	0.01	0.01	0.07	0.04	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.05**	**0.11**	**0.74**	**0.01**	**0.15**	**0.04**
TOTAL		***0.47***	***0.39***	***3.07***	***4.51***	***0.02***	***0.25***	***0.13***
Onsite			**Winter**					
	Off-Road Equipment	0.41	0.34	2.96	3.77	0.01	0.10	0.09
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.41**	**0.34**	**2.96**	**3.77**	**0.01**	**0.10**	**0.09**
Offsite								
	Worker	0.05	0.04	0.05	0.59	0.00	0.13	0.03
	Vendor	0.01	0.01	0.08	0.04	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.05**	**0.13**	**0.63**	**0.01**	**0.15**	**0.04**
TOTAL		***0.47***	***0.39***	***3.09***	***4.40***	***0.02***	***0.25***	***0.13***
Onsite								
	Off-Road Equipment	0.41	0.34	2.96	3.77	0.01	0.10	0.09
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.41**	**0.34**	**2.96**	**3.77**	**0.01**	**0.10**	**0.09**
Offsite								
	Worker	0.05	0.04	0.05	0.70	0.00	0.13	0.03
	Vendor	0.01	0.01	0.08	0.04	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.05**	**0.13**	**0.74**	**0.01**	**0.15**	**0.04**
TOTAL		***0.47***	***0.39***	***3.09***	***4.51***	***0.02***	***0.25***	***0.13***

Sewer Main and Storm Drain Site (Private)

3.1. Site Preparation (2025)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.34	1.13	9.84	10.80	0.03	0.42	0.39
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.62	0.07
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.34**	**1.13**	**9.84**	**10.80**	**0.03**	**1.04**	**0.46**
Offsite								
	Worker	0.03	0.03	0.03	0.48	0.00	0.10	0.02
	Vendor	0.02	0.01	0.34	0.17	0.01	0.09	0.03
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.05**	**0.04**	**0.37**	**0.65**	**0.01**	**0.19**	**0.05**
TOTAL		***1.39***	***1.17***	***10.21***	***11.45***	***0.04***	***1.23***	***0.51***
Onsite			**Winter**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	1.34	1.13	9.84	10.80	0.03	0.42	0.39
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.62	0.07
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.34**	**1.13**	**9.84**	**10.80**	**0.03**	**1.04**	**0.46**
Offsite								
	Hauling	0.03	0.03	0.03	0.48	0.00	0.10	0.02
	Vendor	0.02	0.01	0.34	0.17	0.01	0.09	0.03
	Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.05**	**0.04**	**0.37**	**0.65**	**0.01**	**0.19**	**0.05**
TOTAL		***1.39***	***1.17***	***10.21***	***11.45***	***0.04***	***1.23***	***0.51***

3.3. Building Construction (2026)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.91	0.76	6.67	8.03	0.02	0.25	0.23
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.91**	**0.76**	**6.67**	**8.03**	**0.02**	**0.25**	**0.23**
Offsite								
	Worker	0.02	0.02	0.02	0.39	0.00	0.08	0.02
	Vendor	0.01	0.01	0.07	0.03	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.03**	**0.03**	**0.09**	**0.42**	**0.01**	**0.10**	**0.03**
TOTAL		***0.94***	***0.79***	***6.76***	***8.45***	***0.03***	***0.35***	***0.26***
Onsite			**Winter**					
	Off-Road Equipment	0.91	0.76	6.67	8.03	0.02	0.25	0.23
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.91**	**0.76**	**6.67**	**8.03**	**0.02**	**0.25**	**0.23**
Offsite								
	Worker	0.02	0.02	0.03	0.33	0.00	0.08	0.02
	Vendor	0.01	0.01	0.07	0.03	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.03**	**0.03**	**0.10**	**0.36**	**0.01**	**0.10**	**0.03**
TOTAL		***0.94***	***0.79***	***6.77***	***8.39***	***0.03***	***0.35***	***0.26***
Onsite								
	Off-Road Equipment	0.91	0.76	6.67	8.03	0.02	0.25	0.23
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.91**	**0.76**	**6.67**	**8.03**	**0.02**	**0.25**	**0.23**
Offsite								
	Worker	0.02	0.02	0.03	0.39	0.00	0.08	0.02
	Vendor	0.01	0.01	0.07	0.03	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.03**	**0.03**	**0.10**	**0.42**	**0.01**	**0.10**	**0.03**
TOTAL		***0.94***	***0.79***	***6.77***	***8.45***	***0.03***	***0.35***	***0.26***

3.5. Building Construction (2027)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.88	0.74	6.45	8.02	0.02	0.23	0.21
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.88**	**0.74**	**6.45**	**8.02**	**0.02**	**0.23**	**0.21**
Offsite								
	Worker	0.02	0.02	0.02	0.36	0.00	0.08	0.02
	Vendor	0.01	0.01	0.07	0.03	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.03**	**0.03**	**0.09**	**0.39**	**0.01**	**0.10**	**0.03**
TOTAL		***0.91***	***0.77***	***6.54***	***8.41***	***0.03***	***0.33***	***0.24***
Onsite			**Winter**					
	Off-Road Equipment	0.88	0.74	6.45	8.02	0.02	0.23	0.21
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.88**	**0.74**	**6.45**	**8.02**	**0.02**	**0.23**	**0.21**
Offsite								
	Worker	0.02	0.02	0.03	0.31	0.00	0.08	0.02
	Vendor	0.01	0.01	0.07	0.03	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.03**	**0.03**	**0.10**	**0.34**	**0.01**	**0.10**	**0.03**
TOTAL		***0.91***	***0.77***	***6.55***	***8.36***	***0.03***	***0.33***	***0.24***
Onsite								
	Off-Road Equipment	0.88	0.74	6.45	8.02	0.02	0.23	0.21
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.88**	**0.74**	**6.45**	**8.02**	**0.02**	**0.23**	**0.21**
Offsite								
	Worker	0.02	0.02	0.03	0.36	0.00	0.08	0.02
	Vendor	0.01	0.01	0.07	0.03	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.03**	**0.03**	**0.10**	**0.39**	**0.01**	**0.10**	**0.03**
TOTAL		***0.91***	***0.77***	***6.55***	***8.41***	***0.03***	***0.33***	***0.24***

3.7. Paving (2027) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.77	0.65	5.74	8.20	0.01	0.23	0.21
	Paving	0.00	0.06	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.77**	**0.71**	**5.74**	**8.20**	**0.01**	**0.23**	**0.21**
Offsite								
	Worker	0.06	0.05	0.05	0.90	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.05**	**0.05**	**0.90**	**0.00**	**0.20**	**0.05**
TOTAL		***0.83***	***0.76***	***5.79***	***9.10***	***0.01***	***0.43***	***0.26***
Onsite			**Winter**					
	Off-Road Equipment	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
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	0.77	0.65	5.74	8.20	0.01	0.23	0.21
	Paving	0.00	0.06	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.77**	**0.71**	**5.74**	**8.20**	**0.01**	**0.23**	**0.21**
Offsite								
	Worker	0.06	0.05	0.05	0.90	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.05**	**0.05**	**0.90**	**0.00**	**0.20**	**0.05**
TOTAL		***0.83***	***0.76***	***5.79***	***9.10***	***0.01***	***0.43***	***0.26***

3.9. Trenching (2026)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.39	0.32	2.87	3.76	0.01	0.08	0.08
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.39**	**0.32**	**2.87**	**3.76**	**0.01**	**0.08**	**0.08**
Offsite								
	Worker	0.04	0.04	0.04	0.65	0.00	0.13	0.03
	Vendor	0.01	0.01	0.07	0.03	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.05**	**0.05**	**0.11**	**0.68**	**0.01**	**0.15**	**0.04**
TOTAL		***0.44***	***0.37***	***2.98***	***4.44***	***0.02***	***0.23***	***0.12***
Onsite			**Winter**					
	Off-Road Equipment	0.39	0.32	2.87	3.76	0.01	0.08	0.08
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.39**	**0.32**	**2.87**	**3.76**	**0.01**	**0.08**	**0.08**
Offsite								
	Worker	0.04	0.04	0.04	0.55	0.00	0.13	0.03
	Vendor	0.01	0.01	0.07	0.03	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.05**	**0.05**	**0.11**	**0.58**	**0.01**	**0.15**	**0.04**
TOTAL		***0.44***	***0.37***	***2.98***	***4.34***	***0.02***	***0.23***	***0.12***
Onsite								
	Off-Road Equipment	0.39	0.32	2.87	3.76	0.01	0.08	0.08
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.39**	**0.32**	**2.87**	**3.76**	**0.01**	**0.08**	**0.08**
Offsite								
	Worker	0.04	0.04	0.04	0.65	0.00	0.13	0.03
	Vendor	0.01	0.01	0.07	0.03	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.05**	**0.05**	**0.11**	**0.68**	**0.01**	**0.15**	**0.04**
TOTAL		***0.44***	***0.37***	***2.98***	***4.44***	***0.02***	***0.23***	***0.12***

3.11. Trenching (2026)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.37	0.31	2.80	3.75	0.01	0.07	0.07
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.37**	**0.31**	**2.80**	**3.75**	**0.01**	**0.07**	**0.07**
Offsite								
	Worker	0.04	0.04	0.03	0.60	0.00	0.13	0.03
	Vendor	0.01	0.01	0.07	0.03	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.05**	**0.05**	**0.10**	**0.63**	**0.01**	**0.15**	**0.04**
TOTAL		***0.42***	***0.36***	***2.90***	***4.38***	***0.02***	***0.22***	***0.11***
Onsite			**Winter**					
	Off-Road Equipment	0.37	0.31	2.80	3.75	0.01	0.07	0.07
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.37**	**0.31**	**2.80**	**3.75**	**0.01**	**0.07**	**0.07**
Offsite								
	Worker	0.04	0.03	0.04	0.51	0.00	0.13	0.03
	Vendor	0.01	0.01	0.07	0.03	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.05**	**0.04**	**0.11**	**0.54**	**0.01**	**0.15**	**0.04**
TOTAL		***0.42***	***0.35***	***2.91***	***4.29***	***0.02***	***0.22***	***0.11***
Onsite								
	Off-Road Equipment	0.37	0.31	2.80	3.75	0.01	0.07	0.07
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.37**	**0.31**	**2.80**	**3.75**	**0.01**	**0.07**	**0.07**
Offsite								
	Worker	0.04	0.04	0.04	0.60	0.00	0.13	0.03
	Vendor	0.01	0.01	0.07	0.03	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.05**	**0.05**	**0.11**	**0.63**	**0.01**	**0.15**	**0.04**
TOTAL		***0.42***	***0.36***	***2.91***	***4.38***	***0.02***	***0.22***	***0.11***

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Sewer Main and Storm Drain Site Site Preparation (Private)	*1.39*	*1.17*	*10.21*	*11.45*	*0.04*	*1.23*	*0.51*
Sewer Main and Storm Drain Site Utility Trenching (Private) 2026	*0.44*	*0.37*	*2.98*	*4.44*	*0.02*	*0.23*	*0.12*
Sewer Main and Storm Drain Site Pipeline Construction (Private) 2026	*0.94*	*0.79*	*6.77*	*8.45*	*0.03*	*0.35*	*0.26*
Sewer Main and Storm Drain Site Utility Trenching (Private) 2027	*0.42*	*0.36*	*2.91*	*4.38*	*0.02*	*0.22*	*0.11*
Sewer Main and Storm Drain Site Pipeline Construction (Private) 2027	*0.91*	*0.77*	*6.55*	*8.41*	*0.03*	*0.33*	*0.24*
Sewer Main and Storm Drain Site Paving (Private)	*0.83*	*0.76*	*5.79*	*9.10*	*0.01*	*0.43*	*0.26*

Option 1

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Option 1 Building 1 Construction 2024 and Utilities Trenching	*5.97*	*4.94*	*33.83*	*62.79*	*0.10*	*8.34*	*2.86*
Option 1 Building 1 Construction 2024	*3.95*	*3.24*	*20.03*	*47.75*	*0.06*	*7.45*	*2.20*
Option 1 Building 1 Construction 2025	*3.72*	*3.08*	*18.56*	*45.08*	*0.06*	*7.38*	*2.10*
Option 1 Building 1 Construction 2025, Paving, and Architectural Coating	*5.69*	*12.22*	*27.77*	*68.94*	*0.08*	*10.15*	*3.01*
Option 1 Rough Grading, Utilities Trenching, and Buildings 2 and 3 Construction 2026	*8.97*	*7.44*	*57.25*	*86.81*	*0.16*	*13.24*	*5.15*
Option 1 Buildings 2 and 3 Construction 2026	*3.39*	*2.76*	*17.55*	*42.82*	*0.06*	*7.33*	*2.05*
Option 1 Buildings 2 and 3 Construction 2027	*3.25*	*2.67*	*16.80*	*40.66*	*0.06*	*7.26*	*2.01*
Option 1 Buildings 2 and 3 Construction, Paving, and Architectural Coating	*5.09*	*86.83*	*25.73*	*62.91*	*0.08*	*10.03*	*2.91*
Option 1 Buildings 2 and 3 Construction, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping	*10.48*	*91.35*	*62.81*	*106.22*	*0.17*	*15.77*	*5.88*

Option 2

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Option 2 BESS Site Construction 2024 and Utilities Trenching	*5.22*	*4.34*	*31.24*	*52.59*	*0.085*	*6.3*	*2.35*
Option 2 BESS Construction 2024	*3.2*	*2.64*	*17.44*	*37.55*	*0.05*	*5.41*	*1.69*
Option 2 BESS Construction 2025	*3.02*	*2.51*	*16.16*	*35.64*	*0.05*	*5.34*	*1.61*
Option 2 BESS Construction 2025 and Paving	*4.04*	*4.01*	*23.68*	*46.66*	*0.06*	*5.89*	*1.98*
Option 2 Rough Grading, Utilities Trenching, and Buildings 1 and 2 Construction 2026	*8.35*	*6.95*	*54.99*	*78.01*	*0.15*	*11.2*	*4.66*
Option 2 Buildings 1 and 2 Construction 2026	*2.77*	*2.27*	*15.29*	*34.02*	*0.05*	*5.29*	*1.56*
Option 2 Buildings 1 and 2 Construction 2027	*2.65*	*2.19*	*14.61*	*32.51*	*0.05*	*5.22*	*1.52*
Option 2 Buildings 1 and 2 Construction 2027, Paving, and Architectural Coating	*4.97*	*68.29*	*27.53*	*57.38*	*0.07*	*7.43*	*2.36*
Option 2 Buildings 1 and 2 Construction 2027, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping	*10.36*	*72.81*	*64.61*	*100.69*	*0.165*	*13.17*	*5.33*

Offsite Improvements

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Linear, Grubbing & Land Clearing	*0.49*	*0.42*	*3.56*	*3.85*	*0.01*	*0.53*	*0.24*
Linear, Grading & Excavation	*3.91*	*3.26*	*28.38*	*31.93*	*0.07*	*3.07*	*1.39*
Linear, Drainage, Utilities, & Sub-Grade	*3.15*	*2.64*	*23.70*	*25.66*	*0.06*	*2.43*	*1.08*
Linear, Paving	*1.14*	*0.96*	*7.79*	*11.83*	*0.01*	*0.57*	*0.36*

Sewer Main and Storm Drain Construction (Public)

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Sewer Main and Storm Drain Site Site Preparation (Public)	*1.48*	*1.23*	*11.32*	*11.62*	*0.035*	*1.28*	*0.55*
Sewer Main and Storm Drain Site Utility Trenching (Public)	*0.465*	*0.385*	*3.09*	*4.51*	*0.015*	*0.25*	*0.13*
Sewer Main and Storm Drain Site Pipeline Construction (Public)	*0.985*	*0.825*	*7.11*	*8.56*	*0.025*	*0.37*	*0.28*
Sewer Main and Storm Drain Site Paving (Public)	*0.9*	*0.77*	*6.2*	*9.09*	*0.01*	*0.47*	*0.3*

Sewer Main and Storm Drain Construction (Private)							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Sewer Main and Storm Drain Site Site Preparation (Private)	*1.39*	*1.17*	*10.21*	*11.45*	*0.04*	*1.23*	*0.51*
Sewer Main and Storm Drain Site Utility Trenching (Private) 2026	*0.44*	*0.37*	*2.98*	*4.44*	*0.02*	*0.23*	*0.12*
Sewer Main and Storm Drain Site Pipeline Construction (Private) 2026	*0.94*	*0.79*	*6.77*	*8.45*	*0.03*	*0.35*	*0.26*
Sewer Main and Storm Drain Site Utility Trenching (Private) 2027	*0.42*	*0.36*	*2.91*	*4.38*	*0.02*	*0.22*	*0.11*
Sewer Main and Storm Drain Site Pipeline Construction (Private) 2027	*0.91*	*0.77*	*6.55*	*8.41*	*0.03*	*0.33*	*0.24*
Sewer Main and Storm Drain Site Paving (Private)	*0.83*	*0.76*	*5.79*	*9.10*	*0.01*	*0.43*	*0.26*

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Option 1 Building 1 Construction 2024 and Utilities Trenching	5	34	63	0	8	3
Option 1 Building 1 Construction 2024	3	20	48	0	7	2
Option 1 Building 1 Construction 2025 | Linear, Grubbing & Land Clearing	3	22	49	0	8	2
Option 1 Building 1 Construction 2025 | Linear, Grubbing & Land Clearing | Sewer Main and Storm Drain Site Site Preparation (Public)	5	33	61	0	9	3
Option 1 Building 1 Construction 2025 | Linear, Grading & Excavation | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public)	8	57	90	0	11	4
Option 1 Building 1 Construction 2025, Paving, and Architectural Coating | Linear, Grading & Excavation | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public)	17	66	114	0	14	5
Linear, Grading & Excavation | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public)	4	39	45	0	4	2
Linear, Drainage, Utilities, & Sub-Grade | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public)	4	34	39	0	3	1
Linear, Paving | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public)	2	18	25	0	1	1
Linear, Paving | Sewer Main and Storm Drain Site Utility Trenching, Pipeline Construction, and Paving (Public)	3	24	34	0	2	1
Linear, Paving | Sewer Main and Storm Drain Site Paving (Public)	2	14	21	0	1	1
Linear, Paving	1	6	9	0	0	0
Option 1 Rough Grading, Utilities Trenching, and Buildings 2 and 3 Construction 2026 | Sewer Main and Storm Drain Site Site Preparation (Private)	9	67	98	0	14	6
Option 1 Rough Grading, Utilities Trenching, and Buildings 2 and 3 Construction 2026 | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Private)	9	67	100	0	14	6
Option 1 Buildings 2 and 3 Construction 2026 | Sewer Main and Public Storm Drain Site Utility Trenching and Pipeline Construction (Private)	4	27	56	0	8	2
Option 1 Buildings 2 and 3 Construction 2027 | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Private)	4	26	53	0	8	2
Option 1 Buildings 2 and 3 Construction, Paving, and Architectural Coating | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Private)	88	35	76	0	11	3
Option 1 Buildings 2 and 3 Construction, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Private)	92	72	119	0	16	6
Option 1 Buildings 2 and 3 Construction, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping | Sewer Main and Storm Drain Site Utility Trenching, Pipeline Construction, and Paving (Private)	93	78	128	0	17	6
Option 1 Buildings 2 and 3 Construction, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping | Sewer Main and Storm Drain Site Paving (Private)	92	69	115	0	16	6
MAX DAILY	**93**	**78**	**128**	**0**	**17**	**6**
Regional Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	Yes	No	No	No	No	No

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Option 2 BESS Site Utility Trenching and Construction	*4*	*31*	*53*	*0*	*6*	*2*
Option 2 BESS Construction 2024	*3*	*17*	*38*	*0*	*5*	*2*
Option 2 BESS Construction 2025 | Linear, Grubbing & Land Clearing	*3*	*20*	*39*	*0*	*6*	*2*
Option 2 BESS Construction 2025 | Linear, Grubbing & Land Clearing | Sewer Main and Public Storm Drain Site Site Preparation (Public)	*4*	*31*	*51*	*0*	*7*	*2*
Option 2 BESS Construction 2025 | Linear, Grading & Excavation | Sewer Main and Public Storm Drain Site Utility Trenching and Pipeline Construction (Public)	*7*	*55*	*81*	*0*	*9*	*3*
Option 2 BESS Construction 2025 and Paving | Linear, Grading & Excavation | Sewer Main and Public Storm Drain Site Utility Trenching and Pipeline Construction (Public)	*8*	*62*	*92*	*0*	*10*	*4*
Linear, Grading & Excavation | Sewer Main and Public Storm Drain Site Utility Trenching and Pipeline Construction (Public)	*4*	*39*	*45*	*0*	*4*	*2*
Linear, Drainage, Utilities, & Sub-Grade | Sewer Main and Public Storm Drain Site Utility Trenching and Pipeline Construction (Public)	*4*	*34*	*39*	*0*	*3*	*1*
Linear, Paving | Sewer Main and Public Storm Drain Site Utility Trenching and Pipeline Construction (Public)	*2*	*18*	*25*	*0*	*1*	*1*
Linear, Paving | Sewer Main and Public Storm Drain Site Utility Trenching, Pipeline Construction, and Paving (Public)	*3*	*24*	*34*	*0*	*2*	*1*
Linear, Paving | Sewer Main and Public Storm Drain Site Paving (Public)	*2*	*14*	*21*	*0*	*1*	*1*
Linear, Paving	*1*	*6*	*9*	*0*	*0*	*0*
Option 2 Rough Grading, Utilities Trenching, and Buildings 1 and 2 Construction 2026 | Sewer Main and Public Storm Drain Site Site Preparation (Private)	*8*	*65*	*89*	*0*	*12*	*5*
Option 2 Rough Grading, Utilities Trenching, and Buildings 1 and 2 Construction 2026 | Sewer Main and Public Storm Drain Site Utility Trenching and Pipeline Construction (Private)	*8*	*65*	*91*	*0*	*12*	*5*
Option 2 Buildings 1 and 2 Construction 2026 | Sewer Main and Public Storm Drain Site Utility Trenching and Pipeline Construction (Private)	*3*	*25*	*47*	*0*	*6*	*2*
Option 2 Buildings 1 and 2 Construction 2027 | Sewer Main and Public Storm Drain Site Utility Trenching and Pipeline Construction (Private)	*3*	*24*	*45*	*0*	*6*	*2*
Option 2 Buildings 1 and 2 Construction 2027, Paving, and Architectural Coating | Sewer Main and Public Storm Drain Site Utility Trenching and Pipeline Construction (Private)	*69*	*37*	*70*	*0*	*8*	*3*
Option 2 Buildings 1 and 2 Construction 2027, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping | Sewer Main and Public Storm Drain Site Utility Trenching and Pipeline Construction (Private)	*74*	*74*	*113*	*0*	*14*	*6*
Option 2 Buildings 1 and 2 Construction 2027, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping | Sewer Main and Storm Drain Site Utility Trenching, Pipeline Construction, and Paving (Private)	*75*	*80*	*123*	*0*	*14*	*6*
Option 2 Buildings 1 and 2 Construction 2027, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping | Sewer Main and Storm Drain Site Paving (Private)	*74*	*70*	*110*	*0*	*14*	*6*
MAX DAILY	**74.690**	**80**	**123**	**0**	**14**	**6**
Regional Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	No	No	No	No	No	No

Regional Construction Emissions Worksheet:

Option 1

3.1. Option 1 Rough Grading

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	3.62	3.04	27.20	27.60	0.06	1.12	1.03
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.62**	**3.04**	**27.20**	**27.60**	**0.06**	**4.71**	**2.45**
Offsite								
	Worker	0.08	0.07	0.08	1.29	0.00	0.26	0.06
	Vendor	0.05	0.02	0.69	0.33	0.01	0.18	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.13**	**0.09**	**0.77**	**1.62**	**0.01**	**0.44**	**0.11**
TOTAL		***3.75***	***3.13***	***27.97***	***29.22***	***0.07***	***5.15***	***2.56***
Onsite			**Winter**					
	Off-Road Equipment	3.62	3.04	27.20	27.60	0.06	1.12	1.03
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.62**	**3.04**	**27.20**	**27.60**	**0.06**	**4.71**	**2.45**
Offsite								
	Worker	0.08	0.07	0.09	1.10	0.00	0.26	0.06
	Vendor	0.04	0.02	0.72	0.34	0.01	0.18	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.12**	**0.09**	**0.81**	**1.44**	**0.01**	**0.44**	**0.11**
TOTAL		***3.74***	***3.13***	***28.01***	***29.04***	***0.07***	***5.15***	***2.56***
Onsite								
	Off-Road Equipment	3.62	3.04	27.20	27.60	0.06	1.12	1.03
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.62**	**3.04**	**27.20**	**27.60**	**0.06**	**4.71**	**2.45**
Offsite								
	Worker	0.08	0.07	0.09	1.29	0.00	0.26	0.06
	Vendor	0.05	0.02	0.72	0.34	0.01	0.18	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.13**	**0.09**	**0.81**	**1.62**	**0.01**	**0.44**	**0.11**
TOTAL		***3.75***	***3.13***	***28.01***	***29.22***	***0.07***	***5.15***	***2.56***

3.3. Option 1 Fine Grading (2027)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	3.51	2.95	25.60	27.30	0.06	1.04	0.96
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.51**	**2.95**	**25.60**	**27.30**	**0.06**	**4.63**	**2.38**
Offsite								
	Worker	0.08	0.07	0.07	1.20	0.00	0.26	0.06
	Vendor	0.04	0.02	0.66	0.31	0.01	0.18	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.12**	**0.09**	**0.73**	**1.51**	**0.01**	**0.44**	**0.11**
TOTAL		***3.63***	***3.04***	***26.33***	***28.81***	***0.07***	***5.07***	***2.49***
Onsite			**Winter**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	3.51	2.95	25.60	27.30	0.06	1.04	0.96
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.51**	**2.95**	**25.60**	**27.30**	**0.06**	**4.63**	**2.38**
Offsite								
	Worker	0.08	0.07	0.07	1.20	0.00	0.26	0.06
	Vendor	0.04	0.02	0.66	0.31	0.01	0.18	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.12**	**0.09**	**0.73**	**1.51**	**0.01**	**0.44**	**0.11**
TOTAL		***3.63***	***3.04***	***26.33***	***28.81***	***0.07***	***5.07***	***2.49***

3.5. Option 1 Building 1 Construction (2024)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.44	1.20	11.20	13.10	0.02	0.50	0.46
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.44**	**1.20**	**11.20**	**13.10**	**0.02**	**0.50**	**0.46**
Offsite								
	Worker	2.09	1.88	2.00	31.60	0.00	5.48	1.28
	Vendor	0.42	0.16	6.21	3.05	0.04	1.47	0.46
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.51**	**2.04**	**8.21**	**34.65**	**0.04**	**6.95**	**1.74**
TOTAL		***3.95***	***3.24***	***19.41***	***47.75***	***0.06***	***7.45***	***2.20***
Onsite			**Winter**					
	Off-Road Equipment	1.44	1.20	11.20	13.10	0.02	0.50	0.46
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.44**	**1.20**	**11.20**	**13.10**	**0.02**	**0.50**	**0.46**
Offsite								
	Worker	2.07	1.85	2.37	26.70	0.00	5.48	1.28
	Vendor	0.41	0.16	6.46	3.12	0.04	1.47	0.46
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.48**	**2.01**	**8.83**	**29.82**	**0.04**	**6.95**	**1.74**
TOTAL		***3.92***	***3.21***	***20.03***	***42.92***	***0.06***	***7.45***	***2.20***
Onsite								
	Off-Road Equipment	1.44	1.20	11.20	13.10	0.02	0.50	0.46
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.44**	**1.20**	**11.20**	**13.10**	**0.02**	**0.50**	**0.46**
Offsite								
	Worker	2.09	1.88	2.37	31.60	0.00	5.48	1.28
	Vendor	0.42	0.16	6.46	3.12	0.04	1.47	0.46
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.51**	**2.04**	**8.83**	**34.65**	**0.04**	**6.95**	**1.74**
TOTAL		***3.95***	***3.24***	***20.03***	***47.75***	***0.06***	***7.45***	***2.20***

3.7. Option 1 Building 1 Construction (2025)

		TOG	ROG	NOx	CO	SO_2	PM10 Total	PM2.5Total
Onsite			**Summer**					
	Off-Road Equipment	1.35	1.13	10.40	13.00	0.02	0.43	0.40
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.35**	**1.13**	**10.40**	**13.00**	**0.02**	**0.43**	**0.40**
Offsite								
	Worker	2.00	1.80	1.82	29.20	0.00	5.48	1.28
	Vendor	0.37	0.15	5.90	2.88	0.04	1.47	0.42
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.37**	**1.95**	**7.72**	**32.08**	**0.04**	**6.95**	**1.70**
TOTAL		***3.72***	***3.08***	***18.12***	***45.08***	***0.06***	***7.38***	***2.10***
Onsite			**Winter**					
	Off-Road Equipment	1.35	1.13	10.40	13.00	0.02	0.43	0.40
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.35**	**1.13**	**10.40**	**13.00**	**0.02**	**0.43**	**0.40**
Offsite								
	Worker	1.99	1.78	2.01	24.70	0.00	5.48	1.28
	Vendor	0.37	0.15	6.15	2.92	0.04	1.47	0.42
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.36**	**1.93**	**8.16**	**27.62**	**0.04**	**6.95**	**1.70**
TOTAL		***3.71***	***3.06***	***18.56***	***40.62***	***0.06***	***7.38***	***2.10***
Onsite								
	Off-Road	1.35	1.13	10.40	13.00	0.02	0.43	0.40
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.35**	**1.13**	**10.40**	**13.00**	**0.02**	**0.43**	**0.40**
Offsite								
	Worker	2.00	1.80	2.01	29.20	0.00	5.48	1.28
	Vendor	0.37	0.15	6.15	2.92	0.04	1.47	0.42
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.37**	**1.95**	**8.16**	**32.08**	**0.04**	**6.95**	**1.70**
TOTAL		***3.72***	***3.08***	***18.56***	***45.08***	***0.06***	***7.38***	***2.10***

3.9. Option 1 Buildings 2 and 3 Construction (2026)

		TOG	ROG	NOx	CO	SO_2	PM10 Total	PM2.5Total
Onsite			**Summer**					
	Off-Road Equipment	1.28	1.07	9.85	13.00	0.02	0.38	0.35
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.28**	**1.07**	**9.85**	**13.00**	**0.02**	**0.38**	**0.35**
Offsite								
	Worker	1.74	1.54	1.63	27.10	0.00	5.48	1.28
	Vendor	0.37	0.15	5.62	2.72	0.04	1.47	0.42
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.11**	**1.69**	**7.25**	**29.82**	**0.04**	**6.95**	**1.70**
TOTAL		***3.39***	***2.76***	***17.10***	***42.82***	***0.06***	***7.33***	***2.05***
Onsite			**Winter**					
	Off-Road Equipment	1.28	1.07	9.85	13.00	0.02	0.38	0.35
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.28**	**1.07**	**9.85**	**13.00**	**0.02**	**0.38**	**0.35**
Offsite								
	Worker	1.74	1.53	1.82	23.10	0.00	5.48	1.28
	Vendor	0.36	0.15	5.88	2.78	0.04	1.47	0.42
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.10**	**1.68**	**7.70**	**25.88**	**0.04**	**6.95**	**1.70**
TOTAL		***3.38***	***2.75***	***17.55***	***38.88***	***0.06***	***7.33***	***2.05***
Onsite								
	Off-Road	1.28	1.07	9.85	13.00	0.02	0.38	0.35
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.28**	**1.07**	**9.85**	**13.00**	**0.02**	**0.38**	**0.35**
Offsite								
	Worker	1.74	1.54	1.82	27.10	0.00	5.48	1.28
	Vendor	0.37	0.15	5.88	2.78	0.04	1.47	0.42
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.11**	**1.69**	**7.70**	**29.82**	**0.04**	**6.95**	**1.70**
TOTAL		***3.39***	***2.76***	***17.55***	***42.82***	***0.06***	***7.33***	***2.05***

3.11. Option 1 Buildings 2 and 3 Construction (2027)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.23	1.03	9.39	12.90	0.02	0.34	0.31
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.23**	**1.03**	**9.39**	**12.90**	**0.02**	**0.34**	**0.31**
Offsite								
	Worker	1.69	1.49	1.45	25.20	0.00	5.48	1.28
	Vendor	0.33	0.15	5.38	2.56	0.04	1.44	0.42
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.02**	**1.64**	**6.83**	**27.76**	**0.04**	**6.92**	**1.70**
TOTAL		***3.25***	***2.67***	***16.22***	***40.66***	***0.06***	***7.26***	***2.01***
Onsite			**Winter**					
	Off-Road Equipment	1.23	1.03	9.39	12.90	0.02	0.34	0.31
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.23**	**1.03**	**9.39**	**12.90**	**0.02**	**0.34**	**0.31**
Offsite								
	Worker	1.67	1.46	1.81	21.30	0.00	5.48	1.28
	Vendor	0.32	0.15	5.60	2.62	0.04	1.44	0.42
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.99**	**1.61**	**7.41**	**23.92**	**0.04**	**6.92**	**1.70**
TOTAL		***3.22***	***2.64***	***16.80***	***36.82***	***0.06***	***7.26***	***2.01***
Onsite								
	Off-Road Equipment	1.23	1.03	9.39	12.90	0.02	0.34	0.31
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.23**	**1.03**	**9.39**	**12.90**	**0.02**	**0.34**	**0.31**
Offsite								
	Worker	1.69	1.49	1.81	25.20	0.00	5.48	1.28
	Vendor	0.33	0.15	5.60	2.62	0.04	1.44	0.42
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.02**	**1.64**	**7.41**	**27.76**	**0.04**	**6.92**	**1.70**
TOTAL		***3.25***	***2.67***	***16.80***	***40.66***	***0.06***	***7.26***	***2.01***

3.13. Option 1 Building 1 Paving (2025)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	0.32
	Paving	0.00	0.89	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**1.69**	**7.45**	**9.98**	**0.01**	**0.35**	**0.32**
Offsite								
	Worker	0.07	0.06	0.06	1.04	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.06**	**0.06**	**1.04**	**0.00**	**0.20**	**0.05**
TOTAL		***1.02***	***1.75***	***7.51***	***11.02***	***0.01***	***0.55***	***0.37***
Onsite			**Winter**					
	Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	0.32
	Paving	0.00	0.89	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**1.69**	**7.45**	**9.98**	**0.01**	**0.35**	**0.32**
Offsite								
	Worker	0.07	0.06	0.07	0.88	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.06**	**0.07**	**0.88**	**0.00**	**0.20**	**0.05**
TOTAL		***1.02***	***1.75***	***7.52***	***10.86***	***0.01***	***0.55***	***0.37***
Onsite								
	Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	0.32
	Paving	0.00	0.89	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**1.69**	**7.45**	**9.98**	**0.01**	**0.35**	**0.32**
Offsite								
	Worker	0.07	0.06	0.07	1.04	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.06**	**0.07**	**1.04**	**0.00**	**0.20**	**0.05**
TOTAL		***1.02***	***1.75***	***7.52***	***11.02***	***0.01***	***0.55***	***0.37***

3.16. Option 1 Building 1 Architectural Coating (2025)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.02	0.02	1.07	0.96	0.01	0.03	0.03
	Architectural Coatings	0.00	0.30	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.02**	**0.32**	**1.07**	**0.96**	**0.01**	**0.03**	**0.03**
Offsite								
	Worker	0.80	0.72	0.73	11.70	0.00	2.19	0.51
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.80**	**0.72**	**0.73**	**11.70**	**0.00**	**2.19**	**0.51**
TOTAL		***0.82***	***1.04***	***1.80***	***12.66***	***0.01***	***2.22***	***0.54***
Onsite			**Winter**					
	Off-Road Equipment	0.02	0.02	1.07	0.96	0.01	0.03	0.03
	Architectural Coatings	0.00	0.30	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.02**	**0.32**	**1.07**	**0.96**	**0.01**	**0.03**	**0.03**
Offsite								
	Worker	0.79	0.71	0.81	9.89	0.00	2.19	0.51
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.79**	**0.71**	**0.81**	**9.89**	**0.00**	**2.19**	**0.51**
TOTAL		***0.81***	***1.03***	***1.88***	***10.85***	***0.01***	***2.22***	***0.54***
Onsite								
	Off-Road Equipment	0.02	0.02	1.07	0.96	0.01	0.03	0.03
	Architectural Coatings	0.00	0.30	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.02**	**0.32**	**1.07**	**0.96**	**0.01**	**0.03**	**0.03**
Offsite								
	Worker	0.80	0.72	0.81	11.70	0.00	2.19	0.51
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.80**	**0.72**	**0.81**	**11.70**	**0.00**	**2.19**	**0.51**
TOTAL		***0.82***	***1.04***	***1.88***	***12.66***	***0.01***	***2.22***	***0.54***

3.18. Option 1 Buildings 2 and 3 Architectural Coating (2027)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.02	0.02	1.07	0.96	0.01	0.03	0.03
	Onsite truck	0.00	3.80	0.00	0.00	0.00	0.00	0.00
	Total	**0.02**	**3.82**	**1.07**	**0.96**	**0.01**	**0.03**	**0.03**
Offsite								
	Worker	0.68	0.60	0.58	10.10	0.00	2.20	0.51
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.68**	**0.60**	**0.58**	**10.10**	**0.00**	**2.20**	**0.51**
TOTAL		***0.70***	***4.42***	***1.65***	***11.06***	***0.01***	***2.23***	***0.54***
Onsite			**Winter**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	0.02	0.02	1.07	0.96	0.01	0.03	0.03
	Onsite truck	0.00	3.80	0.00	0.00	0.00	0.00	0.00
	Total	**0.02**	**3.82**	**1.07**	**0.96**	**0.01**	**0.03**	**0.03**
Offsite								
	Worker	0.68	0.60	0.58	10.10	0.00	2.20	0.51
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.68**	**0.60**	**0.58**	**10.10**	**0.00**	**2.20**	**0.51**
TOTAL		***0.70***	***4.42***	***1.65***	***11.06***	***0.01***	***2.23***	***0.54***

3.19. Option 1 Building 1 Utility Trenching (2024)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.93	1.62	13.50	13.80	0.03	0.64	0.59
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.93**	**1.62**	**13.50**	**13.80**	**0.03**	**0.64**	**0.59**
Offsite								
	Worker	0.07	0.07	0.07	1.13	0.00	0.20	0.05
	Vendor	0.02	0.01	0.23	0.11	0.01	0.05	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.09**	**0.08**	**0.30**	**1.24**	**0.01**	**0.25**	**0.07**
TOTAL		***2.02***	***1.70***	***13.80***	***15.04***	***0.04***	***0.89***	***0.66***
Onsite			**Winter**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	1.93	1.62	13.50	13.80	0.03	0.64	0.59
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.93**	**1.62**	**13.50**	**13.80**	**0.03**	**0.64**	**0.59**
Offsite								
	Worker	0.07	0.07	0.07	1.13	0.00	0.20	0.05
	Vendor	0.02	0.01	0.23	0.11	0.01	0.05	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.09**	**0.08**	**0.30**	**1.24**	**0.01**	**0.25**	**0.07**
TOTAL		***2.02***	***1.70***	***13.80***	***15.04***	***0.04***	***0.89***	***0.66***

3.21. Option 1 Buildings 2 and 3 Utility Trenching (2026)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.76	1.48	11.40	13.70	0.03	0.51	0.47
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.76**	**1.48**	**11.40**	**13.70**	**0.03**	**0.51**	**0.47**
Offsite								
	Worker	0.06	0.06	0.06	0.97	0.00	0.20	0.05
	Vendor	0.01	0.01	0.21	0.10	0.01	0.05	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.07**	**0.27**	**1.07**	**0.01**	**0.25**	**0.07**
TOTAL		***1.83***	***1.55***	***11.67***	***14.77***	***0.04***	***0.76***	***0.54***
Onsite			**Winter**					
	Off-Road Equipment	1.76	1.48	11.40	13.70	0.03	0.51	0.47
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.76**	**1.48**	**11.40**	**13.70**	**0.03**	**0.51**	**0.47**
Offsite								
	Worker	0.06	0.05	0.07	0.83	0.00	0.20	0.05
	Vendor	0.01	0.01	0.22	0.10	0.01	0.05	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.06**	**0.29**	**0.93**	**0.01**	**0.25**	**0.07**
TOTAL		***1.83***	***1.54***	***11.69***	***14.63***	***0.04***	***0.76***	***0.54***
Onsite								
	Off-Road Equipment	1.76	1.48	11.40	13.70	0.03	0.51	0.47
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.76**	**1.48**	**11.40**	**13.70**	**0.03**	**0.51**	**0.47**
Offsite								
	Worker	0.06	0.06	0.07	0.97	0.00	0.20	0.05
	Vendor	0.01	0.01	0.22	0.10	0.01	0.05	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.07**	**0.29**	**1.07**	**0.01**	**0.25**	**0.07**
TOTAL		***1.83***	***1.55***	***11.69***	***14.77***	***0.04***	***0.76***	***0.54***

3.23. Option 1 Finishing/Landscaping (2027)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.70	1.43	10.70	13.60	0.03	0.47	0.43
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.70**	**1.43**	**10.70**	**13.60**	**0.03**	**0.47**	**0.43**
Offsite								
	Worker	0.06	0.05	0.05	0.90	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.05**	**0.05**	**0.90**	**0.00**	**0.20**	**0.05**
TOTAL		***1.76***	***1.48***	***10.75***	***14.50***	***0.03***	***0.67***	***0.48***
Onsite			**Winter**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	1.70	1.43	10.70	13.60	0.03	0.47	0.43
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.70**	**1.43**	**10.70**	**13.60**	**0.03**	**0.47**	**0.43**
Offsite								
	Worker	0.06	0.05	0.05	0.90	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.05**	**0.05**	**0.90**	**0.00**	**0.20**	**0.05**
TOTAL		***1.76***	***1.48***	***10.75***	***14.50***	***0.03***	***0.67***	***0.48***

Phase 2

3.1. Option 2 Rough Grading

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	3.62	3.04	27.20	27.60	0.06	1.12	1.03
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.62**	**3.04**	**27.20**	**27.60**	**0.06**	**4.71**	**2.45**
Offsite								
	Worker	0.08	0.07	0.08	1.29	0.00	0.26	0.06
	Vendor	0.05	0.02	0.69	0.33	0.01	0.18	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.13**	**0.09**	**0.77**	**1.62**	**0.01**	**0.44**	**0.11**
TOTAL		***3.75***	***3.13***	***27.97***	***29.22***	***0.07***	***5.15***	***2.56***
Onsite			**Winter**					
	Off-Road Equipment	3.62	3.04	27.20	27.60	0.06	1.12	1.03
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.62**	**3.04**	**27.20**	**27.60**	**0.06**	**4.71**	**2.45**
Offsite								
	Worker	0.08	0.07	0.09	1.10	0.00	0.26	0.06
	Vendor	0.04	0.02	0.72	0.34	0.01	0.18	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.12**	**0.09**	**0.81**	**1.44**	**0.01**	**0.44**	**0.11**
TOTAL		***3.74***	***3.13***	***28.01***	***29.04***	***0.07***	***5.15***	***2.56***
Onsite								
	Off-Road Equipment	3.62	3.04	27.20	27.60	0.06	1.12	1.03
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.62**	**3.04**	**27.20**	**27.60**	**0.06**	**4.71**	**2.45**
Offsite								
	Worker	0.08	0.07	0.09	1.29	0.00	0.26	0.06
	Vendor	0.05	0.02	0.72	0.34	0.01	0.18	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.13**	**0.09**	**0.81**	**1.62**	**0.01**	**0.44**	**0.11**
TOTAL		***3.75***	***3.13***	***28.01***	***29.22***	***0.07***	***5.15***	***2.56***

3.3. Option 2 Fine Grading (2027)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	3.51	2.95	25.60	27.30	0.06	1.04	0.96
	Onsite truck	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Total	**3.51**	**2.95**	**25.60**	**27.30**	**0.06**	**4.63**	**2.38**
Offsite								
	Worker	0.08	0.07	0.07	1.20	0.00	0.26	0.06
	Vendor	0.04	0.02	0.66	0.31	0.01	0.18	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.12**	**0.09**	**0.73**	**1.51**	**0.01**	**0.44**	**0.11**
TOTAL		***3.63***	***3.04***	***26.33***	***28.81***	***0.07***	***5.07***	***2.49***
Onsite			**Winter**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	3.51	2.95	25.60	27.30	0.06	1.04	0.96
	Onsite truck	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Total	**3.51**	**2.95**	**25.60**	**27.30**	**0.06**	**4.63**	**2.38**
Offsite								
	Worker	0.08	0.07	0.07	1.20	0.00	0.26	0.06
	Vendor	0.04	0.02	0.66	0.31	0.01	0.18	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.12**	**0.09**	**0.73**	**1.51**	**0.01**	**0.44**	**0.11**
TOTAL		***3.63***	***3.04***	***26.33***	***28.81***	***0.07***	***5.07***	***2.49***

3.5. Option 2 BESS Construction (2024)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.44	1.20	11.20	13.10	0.02	0.50	0.46
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.44**	**1.20**	**11.20**	**13.10**	**0.02**	**0.50**	**0.46**
Offsite								
	Worker	1.47	1.33	1.41	22.30	0.00	3.87	0.91
	Vendor	0.29	0.11	4.38	2.15	0.03	1.04	0.32
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.76**	**1.44**	**5.79**	**24.45**	**0.03**	**4.91**	**1.23**
TOTAL		***3.20***	***2.64***	***16.99***	***37.55***	***0.05***	***5.41***	***1.69***
Onsite			**Winter**					
	Off-Road Equipment	1.44	1.20	11.20	13.10	0.02	0.50	0.46
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.44**	**1.20**	**11.20**	**13.10**	**0.02**	**0.50**	**0.46**
Offsite								
	Worker	1.46	1.31	1.68	18.90	0.00	3.87	0.91
	Vendor	0.29	0.11	4.56	2.20	0.03	1.04	0.32
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.75**	**1.42**	**6.24**	**21.10**	**0.03**	**4.91**	**1.23**
TOTAL		***3.19***	***2.62***	***17.44***	***34.20***	***0.05***	***5.41***	***1.69***
Onsite								
	Off-Road Equipment	1.44	1.20	11.20	13.10	0.02	0.50	0.46
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.44**	**1.20**	**11.20**	**13.10**	**0.02**	**0.50**	**0.46**
Offsite								
	Worker	1.47	1.33	1.68	22.30	0.00	3.87	0.91
	Vendor	0.29	0.11	4.56	2.20	0.03	1.04	0.32
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.76**	**1.44**	**6.24**	**24.45**	**0.03**	**4.91**	**1.23**
TOTAL		***3.20***	***2.64***	***17.44***	***37.55***	***0.05***	***5.41***	***1.69***

3.7. Option 2 BESS Construction (2025)

		TOG	ROG	NOx	CO	SO_2	PM10 Total	PM2.5Total
Onsite			**Summer**					
	Off-Road Equipment	1.35	1.13	10.40	13.00	0.02	0.43	0.40
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.35**	**1.13**	**10.40**	**13.00**	**0.02**	**0.43**	**0.40**
Offsite								
	Worker	1.41	1.27	1.28	20.60	0.00	3.87	0.91
	Vendor	0.26	0.11	4.16	2.04	0.03	1.04	0.30
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.67**	**1.38**	**5.44**	**22.64**	**0.03**	**4.91**	**1.21**
TOTAL		***3.02***	***2.51***	***15.84***	***35.64***	***0.05***	***5.34***	***1.61***
Onsite			**Winter**					
	Off-Road Equipment	1.35	1.13	10.40	13.00	0.02	0.43	0.40
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.35**	**1.13**	**10.40**	**13.00**	**0.02**	**0.43**	**0.40**
Offsite								
	Worker	1.40	1.25	1.42	17.40	0.00	3.87	0.91
	Vendor	0.26	0.11	4.34	2.06	0.03	1.04	0.30
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.66**	**1.36**	**5.76**	**19.46**	**0.03**	**4.91**	**1.21**
TOTAL		***3.01***	***2.49***	***16.16***	***32.46***	***0.05***	***5.34***	***1.61***
Onsite								
	Off-Road	1.35	1.13	10.40	13.00	0.02	0.43	0.40
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.35**	**1.13**	**10.40**	**13.00**	**0.02**	**0.43**	**0.40**
Offsite								
	Worker	1.41	1.27	1.42	20.60	0.00	3.87	0.91
	Vendor	0.26	0.11	4.34	2.06	0.03	1.04	0.30
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.67**	**1.38**	**5.76**	**22.64**	**0.03**	**4.91**	**1.21**
TOTAL		***3.02***	***2.51***	***16.16***	***35.64***	***0.05***	***5.34***	***1.61***

3.9. Option 2 Buildings 1 and 2 Construction (2026)

		TOG	ROG	NOx	CO	SO_2	PM10 Total	PM2.5Total
Onsite			**Summer**					
	Off-Road Equipment	1.28	1.07	9.85	13.00	0.02	0.38	0.35
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.28**	**1.07**	**9.85**	**13.00**	**0.02**	**0.38**	**0.35**
Offsite								
	Worker	1.23	1.09	1.15	19.10	0.00	3.87	0.91
	Vendor	0.26	0.11	3.97	1.92	0.03	1.04	0.30
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.49**	**1.20**	**5.12**	**21.02**	**0.03**	**4.91**	**1.21**
TOTAL		***2.77***	***2.27***	***14.97***	***34.02***	***0.05***	***5.29***	***1.56***
Onsite			**Winter**					
	Off-Road Equipment	1.28	1.07	9.85	13.00	0.02	0.38	0.35
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.28**	**1.07**	**9.85**	**13.00**	**0.02**	**0.38**	**0.35**
Offsite								
	Worker	1.23	1.08	1.29	16.30	0.00	3.87	0.91
	Vendor	0.25	0.10	4.15	1.96	0.03	1.04	0.30
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.48**	**1.18**	**5.44**	**18.26**	**0.03**	**4.91**	**1.21**
TOTAL		***2.76***	***2.25***	***15.29***	***31.26***	***0.05***	***5.29***	***1.56***
Onsite								
	Off-Road	1.28	1.07	9.85	13.00	0.02	0.38	0.35
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.28**	**1.07**	**9.85**	**13.00**	**0.02**	**0.38**	**0.35**
Offsite								
	Worker	1.23	1.09	1.29	19.10	0.00	3.87	0.91
	Vendor	0.26	0.11	4.15	1.96	0.03	1.04	0.30
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.49**	**1.20**	**5.44**	**21.02**	**0.03**	**4.91**	**1.21**
TOTAL		***2.77***	***2.27***	***15.29***	***34.02***	***0.05***	***5.29***	***1.56***

3.11. Option 2 Buildings 1 and 2 Construction (2027)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.23	1.03	9.39	12.90	0.02	0.34	0.31
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.23**	**1.03**	**9.39**	**12.90**	**0.02**	**0.34**	**0.31**
Offsite								
	Worker	1.19	1.05	1.02	17.80	0.00	3.87	0.91
	Vendor	0.23	0.11	3.80	1.81	0.03	1.01	0.30
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.42**	**1.16**	**4.82**	**19.61**	**0.03**	**4.88**	**1.21**
TOTAL		***2.65***	***2.19***	***14.21***	***32.51***	***0.05***	***5.22***	***1.52***
Onsite			**Winter**					
	Off-Road Equipment	1.23	1.03	9.39	12.90	0.02	0.34	0.31
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.23**	**1.03**	**9.39**	**12.90**	**0.02**	**0.34**	**0.31**
Offsite								
	Worker	1.18	1.03	1.27	15.00	0.00	3.87	0.91
	Vendor	0.23	0.10	3.95	1.85	0.03	1.01	0.30
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.41**	**1.13**	**5.22**	**16.85**	**0.03**	**4.88**	**1.21**
TOTAL		***2.64***	***2.16***	***14.61***	***29.75***	***0.05***	***5.22***	***1.52***
Onsite								
	Off-Road Equipment	1.23	1.03	9.39	12.90	0.02	0.34	0.31
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.23**	**1.03**	**9.39**	**12.90**	**0.02**	**0.34**	**0.31**
Offsite								
	Worker	1.19	1.05	1.27	17.80	0.00	3.87	0.91
	Vendor	0.23	0.11	3.95	1.85	0.03	1.01	0.30
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.42**	**1.16**	**5.22**	**19.61**	**0.03**	**4.88**	**1.21**
TOTAL		***2.65***	***2.19***	***14.61***	***32.51***	***0.05***	***5.22***	***1.52***

3.13. Option 2 Paving (2025)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	0.32
	Paving	0.00	0.64	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**1.44**	**7.45**	**9.98**	**0.01**	**0.35**	**0.32**
Offsite								
	Worker	0.07	0.06	0.06	1.04	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.06**	**0.06**	**1.04**	**0.00**	**0.20**	**0.05**
TOTAL		***1.02***	***1.50***	***7.51***	***11.02***	***0.01***	***0.55***	***0.37***
Onsite			**Winter**					
	Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	0.32
	Paving	0.00	0.64	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**1.44**	**7.45**	**9.98**	**0.01**	**0.35**	**0.32**
Offsite								
	Worker	0.07	0.06	0.07	0.88	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.06**	**0.07**	**0.88**	**0.00**	**0.20**	**0.05**
TOTAL		***1.02***	***1.50***	***7.52***	***10.86***	***0.01***	***0.55***	***0.37***
Onsite								
	Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	0.32
	Paving	0.00	0.64	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**1.44**	**7.45**	**9.98**	**0.01**	**0.35**	**0.32**
Offsite								
	Worker	0.07	0.06	0.07	1.04	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.06**	**0.07**	**1.04**	**0.00**	**0.20**	**0.05**
TOTAL		***1.02***	***1.50***	***7.52***	***11.02***	***0.01***	***0.55***	***0.37***

3.15. Option 2 Buildings 1 and 2 Architectural Coating (2025)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.02	0.02	1.07	0.96	0.01	0.03	0.03
	Architectural Coatings	0.00	4.19	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.02**	**4.21**	**1.07**	**0.96**	**0.01**	**0.03**	**0.03**
Offsite								
	Worker	0.48	0.42	0.41	7.10	0.00	1.55	0.36
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.48**	**0.42**	**0.41**	**7.10**	**0.00**	**1.55**	**0.36**
TOTAL		***0.50***	***4.63***	***1.48***	***8.06***	***0.01***	***1.58***	***0.39***
Onsite			**Winter**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Architectural Coatings	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	0.02	0.02	1.07	0.96	0.01	0.03	0.03
	Architectural Coatings	0.00	4.19	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.02**	**4.21**	**1.07**	**0.96**	**0.01**	**0.03**	**0.03**
Offsite								
	Worker	0.48	0.42	0.41	7.10	0.00	1.55	0.36
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.48**	**0.42**	**0.41**	**7.10**	**0.00**	**1.55**	**0.36**
TOTAL		***0.50***	***4.63***	***1.48***	***8.06***	***0.01***	***1.58***	***0.39***

3.17. Option 2 BESS Utility Trenching (2024)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.93	1.62	13.50	13.80	0.03	0.64	0.59
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.93**	**1.62**	**13.50**	**13.80**	**0.03**	**0.64**	**0.59**
Offsite								
	Worker	0.07	0.07	0.07	1.13	0.00	0.20	0.05
	Vendor	0.02	0.01	0.23	0.11	0.01	0.05	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.09**	**0.08**	**0.30**	**1.24**	**0.01**	**0.25**	**0.07**
TOTAL		***2.02***	***1.70***	***13.80***	***15.04***	***0.04***	***0.89***	***0.66***
Onsite			**Winter**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	1.93	1.62	13.50	13.80	0.03	0.64	0.59
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.93**	**1.62**	**13.50**	**13.80**	**0.03**	**0.64**	**0.59**
Offsite								
	Worker	0.07	0.07	0.07	1.13	0.00	0.20	0.05
	Vendor	0.02	0.01	0.23	0.11	0.01	0.05	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.09**	**0.08**	**0.30**	**1.24**	**0.01**	**0.25**	**0.07**
TOTAL		***2.02***	***1.70***	***13.80***	***15.04***	***0.04***	***0.89***	***0.66***

3.19. Option 2 Buildings 1 and 2 Utility Trenching (2026)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.76	1.48	11.40	13.70	0.03	0.51	0.47
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.76**	**1.48**	**11.40**	**13.70**	**0.03**	**0.51**	**0.47**
Offsite								
	Worker	0.06	0.06	0.06	0.97	0.00	0.20	0.05
	Vendor	0.01	0.01	0.21	0.10	0.01	0.05	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.07**	**0.27**	**1.07**	**0.01**	**0.25**	**0.07**
TOTAL		***1.83***	***1.55***	***11.67***	***14.77***	***0.04***	***0.76***	***0.54***
Onsite			**Winter**					
	Off-Road Equipment	1.76	1.48	11.40	13.70	0.03	0.51	0.47
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.76**	**1.48**	**11.40**	**13.70**	**0.03**	**0.51**	**0.47**
Offsite								
	Worker	0.06	0.05	0.07	0.83	0.00	0.20	0.05
	Vendor	0.01	0.01	0.22	0.10	0.01	0.05	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.06**	**0.29**	**0.93**	**0.01**	**0.25**	**0.07**
TOTAL		***1.83***	***1.54***	***11.69***	***14.63***	***0.04***	***0.76***	***0.54***
Onsite								
	Off-Road Equipment	1.76	1.48	11.40	13.70	0.03	0.51	0.47
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.76**	**1.48**	**11.40**	**13.70**	**0.03**	**0.51**	**0.47**
Offsite								
	Worker	0.06	0.06	0.07	0.97	0.00	0.20	0.05
	Vendor	0.01	0.01	0.22	0.10	0.01	0.05	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.07**	**0.29**	**1.07**	**0.01**	**0.25**	**0.07**
TOTAL		***1.83***	***1.55***	***11.69***	***14.77***	***0.04***	***0.76***	***0.54***

3.21. Option 2 Finishing/Landscaping (2027)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.70	1.43	10.70	13.60	0.03	0.47	0.43
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.70**	**1.43**	**10.70**	**13.60**	**0.03**	**0.47**	**0.43**
Offsite								
	Worker	0.06	0.05	0.05	0.90	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.05**	**0.05**	**0.90**	**0.00**	**0.20**	**0.05**
TOTAL		***1.76***	***1.48***	***10.75***	***14.50***	***0.03***	***0.67***	***0.48***
Onsite			**Winter**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	1.70	1.43	10.70	13.60	0.03	0.47	0.43
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.70**	**1.43**	**10.70**	**13.60**	**0.03**	**0.47**	**0.43**
Offsite								
	Worker	0.06	0.05	0.05	0.90	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.05**	**0.05**	**0.90**	**0.00**	**0.20**	**0.05**
TOTAL		***1.76***	***1.48***	***10.75***	***14.50***	***0.03***	***0.67***	***0.48***

Offsite Improvements

3.1. Linear, Grubbing & Land Clearing (2025)

		TOG	ROG	NOx	CO	SO_2	PM10 Total	PM2.5Total
Onsite			**Summer**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite			**Winter**					
	Off-Road Equipment	0.46	0.39	3.39	3.49	0.01	0.21	0.19
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.21	0.02
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.46**	**0.39**	**3.39**	**3.49**	**0.01**	**0.42**	**0.21**
Offsite								
	Worker	0.02	0.02	0.02	0.29	0.00	0.07	0.02
	Vendor	0.01	0.01	0.15	0.07	0.01	0.04	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.03**	**0.03**	**0.17**	**0.36**	**0.01**	**0.11**	**0.03**
TOTAL		***0.49***	***0.42***	***3.56***	***3.85***	***0.01***	***0.53***	***0.24***
Onsite								
	Off-Road Equipment	0.46	0.39	3.39	3.49	0.01	0.21	0.19
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.21	0.02
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.46**	**0.39**	**3.39**	**3.49**	**0.01**	**0.42**	**0.21**
Offsite								
	Worker	0.02	0.02	0.02	0.29	0.00	0.07	0.02
	Vendor	0.01	0.01	0.15	0.07	0.01	0.04	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.03**	**0.03**	**0.17**	**0.36**	**0.01**	**0.11**	**0.03**
TOTAL		***0.49***	***0.42***	***3.56***	***3.85***	***0.01***	***0.53***	***0.24***

3.3. Linear, Grading & Excavation (2025)

		TOG	ROG	NOx	CO	SO_2	PM10 Total	PM2.5Total
Onsite			**Summer**					
	Off-Road Equipment	3.71	3.11	27.30	29.40	0.06	1.21	1.11
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	1.24	0.13
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.71**	**3.11**	**27.30**	**29.40**	**0.06**	**2.45**	**1.24**
Offsite								
	Worker	0.14	0.13	0.13	2.09	0.00	0.39	0.09
	Vendor	0.06	0.02	0.90	0.44	0.01	0.23	0.06
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.20**	**0.15**	**1.03**	**2.53**	**0.01**	**0.62**	**0.15**
TOTAL		***3.91***	***3.26***	***28.33***	***31.93***	***0.07***	***3.07***	***1.39***
Onsite			**Winter**					
	Off-Road Equipment	3.71	3.11	27.30	29.40	0.06	1.21	1.11
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	1.24	0.13
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.71**	**3.11**	**27.30**	**29.40**	**0.06**	**2.45**	**1.24**
Offsite								
	Worker	0.14	0.13	0.14	1.77	0.00	0.39	0.09
	Vendor	0.06	0.02	0.94	0.45	0.01	0.23	0.06
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.20**	**0.15**	**1.08**	**2.22**	**0.01**	**0.62**	**0.15**
TOTAL		***3.91***	***3.26***	***28.38***	***31.62***	***0.07***	***3.07***	***1.39***
Onsite								
	Off-Road Equipment	3.71	3.11	27.30	29.40	0.06	1.21	1.11
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	1.24	0.13
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.71**	**3.11**	**27.30**	**29.40**	**0.06**	**2.45**	**1.24**
Offsite								
	Worker	0.14	0.13	0.14	2.09	0.00	0.39	0.09
	Vendor	0.06	0.02	0.94	0.45	0.01	0.23	0.06
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.20**	**0.15**	**1.08**	**2.53**	**0.01**	**0.62**	**0.15**
TOTAL		***3.91***	***3.26***	***28.38***	***31.93***	***0.07***	***3.07***	***1.39***

3.5. Linear, Drainage, Utilities, & Sub-Grade (2025)

		TOG	ROG	NOx	CO	SO_2	PM10 Total	PM2.5Total
Onsite			**Summer**					
	Off-Road Equipment	2.99	2.51	22.90	23.60	0.05	0.91	0.84
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	1.03	0.11
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.99**	**2.51**	**22.90**	**23.60**	**0.05**	**1.94**	**0.95**
Offsite								
	Worker	0.12	0.11	0.11	1.74	0.00	0.33	0.08
	Vendor	0.04	0.02	0.65	0.32	0.01	0.16	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.16**	**0.13**	**0.76**	**2.06**	**0.01**	**0.49**	**0.13**
TOTAL		***3.15***	***2.64***	***23.66***	***25.66***	***0.06***	***2.43***	***1.08***
Onsite			**Winter**					
	Off-Road Equipment	2.99	2.51	22.90	23.60	0.05	0.91	0.84
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	1.03	0.11
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.99**	**2.51**	**22.90**	**23.60**	**0.05**	**1.94**	**0.95**
Offsite								
	Worker	0.12	0.11	0.12	1.47	0.00	0.33	0.08
	Vendor	0.04	0.02	0.68	0.32	0.01	0.16	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.16**	**0.13**	**0.80**	**1.79**	**0.01**	**0.49**	**0.13**
TOTAL		***3.15***	***2.64***	***23.70***	***25.39***	***0.06***	***2.43***	***1.08***
Onsite								
	Off-Road	2.99	2.51	22.90	23.60	0.05	0.91	0.84
	Demolition	0.00	0.00	0.00	0.00	0.00	1.03	0.11
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.99**	**2.51**	**22.90**	**23.60**	**0.05**	**1.94**	**0.95**
Offsite								
	Worker	0.12	0.11	0.12	1.74	0.00	0.33	0.08
	Vendor	0.04	0.02	0.68	0.32	0.01	0.16	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.16**	**0.13**	**0.80**	**2.06**	**0.01**	**0.49**	**0.13**
TOTAL		***3.15***	***2.64***	***23.70***	***25.66***	***0.06***	***2.43***	***1.08***

3.7. Linear, Paving (2025)

		TOG	ROG	NOx	CO	SO_2	PM10 Total	PM2.5Total
Onsite			**Summer**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite			**Winter**					
	Off-Road Equipment	1.06	0.89	7.71	10.80	0.01	0.34	0.31
	Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.06**	**0.89**	**7.71**	**10.80**	**0.01**	**0.34**	**0.31**
Offsite								
	Worker	0.08	0.07	0.08	1.03	0.00	0.23	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.08**	**0.07**	**0.08**	**1.03**	**0.00**	**0.23**	**0.05**
TOTAL		***1.14***	***0.96***	***7.79***	***11.83***	***0.01***	***0.57***	***0.36***
Onsite								
	Off-Road	1.06	0.89	7.71	10.80	0.01	0.34	0.31
	Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.06**	**0.89**	**7.71**	**10.80**	**0.01**	**0.34**	**0.31**
Offsite								
	Worker	0.08	0.07	0.08	1.03	0.00	0.23	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.08**	**0.07**	**0.08**	**1.03**	**0.00**	**0.23**	**0.05**
TOTAL		***1.14***	***0.96***	***7.79***	***11.83***	***0.01***	***0.57***	***0.36***

Sewer Main and Storm Drain Site (Public)

3.1. Site Preparation (2025)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite			**Winter**					
	Off-Road Equipment	1.42	1.19	10.90	11.00	0.03	0.47	0.43
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.62	0.07
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.42**	**1.19**	**10.90**	**11.00**	**0.03**	**1.09**	**0.50**
Offsite								
	Worker	0.04	0.03	0.04	0.44	0.00	0.10	0.02
	Vendor	0.02	0.01	0.38	0.18	0.01	0.09	0.03
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.04**	**0.42**	**0.62**	**0.01**	**0.19**	**0.05**
TOTAL		***1.48***	***1.23***	***11.32***	***11.62***	***0.04***	***1.28***	***0.55***
Onsite								
	Off-Road Equipment	1.42	1.19	10.90	11.00	0.03	0.47	0.43
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.62	0.07
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.42**	**1.19**	**10.90**	**11.00**	**0.03**	**1.09**	**0.50**
Offsite								
	Hauling	0.04	0.03	0.04	0.44	0.00	0.10	0.02
	Vendor	0.02	0.01	0.38	0.18	0.01	0.09	0.03
	Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.04**	**0.42**	**0.62**	**0.01**	**0.19**	**0.05**
TOTAL		***1.48***	***1.23***	***11.32***	***11.62***	***0.04***	***1.28***	***0.55***

3.3. Building Construction (2025)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.95	0.79	7.00	8.10	0.02	0.27	0.25
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**0.79**	**7.00**	**8.10**	**0.02**	**0.27**	**0.25**
Offsite								
	Worker	0.03	0.03	0.03	0.42	0.00	0.08	0.02
	Vendor	0.01	0.01	0.07	0.04	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.04**	**0.04**	**0.10**	**0.46**	**0.01**	**0.10**	**0.03**
TOTAL		***0.99***	***0.83***	***7.10***	***8.56***	***0.03***	***0.37***	***0.28***
Onsite			**Winter**					
	Off-Road Equipment	0.95	0.79	7.00	8.10	0.02	0.27	0.25
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**0.79**	**7.00**	**8.10**	**0.02**	**0.27**	**0.25**
Offsite								
	Worker	0.03	0.03	0.03	0.35	0.00	0.08	0.02
	Vendor	0.01	0.01	0.08	0.04	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.04**	**0.04**	**0.11**	**0.39**	**0.01**	**0.10**	**0.03**
TOTAL		***0.99***	***0.83***	***7.11***	***8.49***	***0.03***	***0.37***	***0.28***
Onsite								
	Off-Road Equipment	0.95	0.79	7.00	8.10	0.02	0.27	0.25
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**0.79**	**7.00**	**8.10**	**0.02**	**0.27**	**0.25**
Offsite								
	Worker	0.03	0.03	0.03	0.42	0.00	0.08	0.02
	Vendor	0.01	0.01	0.08	0.04	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.04**	**0.04**	**0.11**	**0.46**	**0.01**	**0.10**	**0.03**
TOTAL		***0.99***	***0.83***	***7.11***	***8.56***	***0.03***	***0.37***	***0.28***

3.5. Paving (2025)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite			**Winter**					
	Off-Road Equipment	0.83	0.70	6.13	8.21	0.01	0.27	0.25
	Onsite truck	0.00	0.01	0.00	0.00	0.00	0.00	0.00
	Total	**0.83**	**0.71**	**6.13**	**8.21**	**0.01**	**0.27**	**0.25**
Offsite								
	Worker	0.07	0.06	0.07	0.88	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.06**	**0.07**	**0.88**	**0.00**	**0.20**	**0.05**
TOTAL		***0.90***	***0.77***	***6.20***	***9.09***	***0.01***	***0.47***	***0.30***
Onsite								
	Off-Road Equipment	0.83	0.70	6.13	8.21	0.01	0.27	0.25
	Onsite truck	0.00	0.01	0.00	0.00	0.00	0.00	0.00
	Total	**0.83**	**0.71**	**6.13**	**8.21**	**0.01**	**0.27**	**0.25**
Offsite								
	Worker	0.07	0.06	0.07	0.88	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.07**	**0.06**	**0.07**	**0.88**	**0.00**	**0.20**	**0.05**
TOTAL		***0.90***	***0.77***	***6.20***	***9.09***	***0.01***	***0.47***	***0.30***

3.7. Trenching (2025)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.41	0.34	2.96	3.77	0.01	0.10	0.09
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.41**	**0.34**	**2.96**	**3.77**	**0.01**	**0.10**	**0.09**
Offsite								
	Worker	0.05	0.04	0.04	0.70	0.00	0.13	0.03
	Vendor	0.01	0.01	0.07	0.04	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.05**	**0.11**	**0.74**	**0.01**	**0.15**	**0.04**
TOTAL		***0.47***	***0.39***	***3.07***	***4.51***	***0.02***	***0.25***	***0.13***
Onsite			**Winter**					
	Off-Road Equipment	0.41	0.34	2.96	3.77	0.01	0.10	0.09
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.41**	**0.34**	**2.96**	**3.77**	**0.01**	**0.10**	**0.09**
Offsite								
	Worker	0.05	0.04	0.05	0.59	0.00	0.13	0.03
	Vendor	0.01	0.01	0.08	0.04	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.05**	**0.13**	**0.63**	**0.01**	**0.15**	**0.04**
TOTAL		***0.47***	***0.39***	***3.09***	***4.40***	***0.02***	***0.25***	***0.13***
Onsite								
	Off-Road Equipment	0.41	0.34	2.96	3.77	0.01	0.10	0.09
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.41**	**0.34**	**2.96**	**3.77**	**0.01**	**0.10**	**0.09**
Offsite								
	Worker	0.05	0.04	0.05	0.70	0.00	0.13	0.03
	Vendor	0.01	0.01	0.08	0.04	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.05**	**0.13**	**0.74**	**0.01**	**0.15**	**0.04**
TOTAL		***0.47***	***0.39***	***3.09***	***4.51***	***0.02***	***0.25***	***0.13***

Sewer Main and Storm Drain Site (Private)

3.1. Site Preparation (2025)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.34	1.13	9.84	10.80	0.03	0.42	0.39
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.62	0.07
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.34**	**1.13**	**9.84**	**10.80**	**0.03**	**1.04**	**0.46**
Offsite								
	Worker	0.03	0.03	0.03	0.48	0.00	0.10	0.02
	Vendor	0.02	0.01	0.34	0.17	0.01	0.09	0.03
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.05**	**0.04**	**0.37**	**0.65**	**0.01**	**0.19**	**0.05**
TOTAL		***1.39***	***1.17***	***10.21***	***11.45***	***0.04***	***1.23***	***0.51***
Onsite			**Winter**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	1.34	1.13	9.84	10.80	0.03	0.42	0.39
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.62	0.07
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.34**	**1.13**	**9.84**	**10.80**	**0.03**	**1.04**	**0.46**
Offsite								
	Hauling	0.03	0.03	0.03	0.48	0.00	0.10	0.02
	Vendor	0.02	0.01	0.34	0.17	0.01	0.09	0.03
	Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.05**	**0.04**	**0.37**	**0.65**	**0.01**	**0.19**	**0.05**
TOTAL		***1.39***	***1.17***	***10.21***	***11.45***	***0.04***	***1.23***	***0.51***

3.3. Building Construction (2026)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.91	0.76	6.67	8.03	0.02	0.25	0.23
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.91**	**0.76**	**6.67**	**8.03**	**0.02**	**0.25**	**0.23**
Offsite								
	Worker	0.02	0.02	0.02	0.39	0.00	0.08	0.02
	Vendor	0.01	0.01	0.07	0.03	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.03**	**0.03**	**0.09**	**0.42**	**0.01**	**0.10**	**0.03**
TOTAL		***0.94***	***0.79***	***6.76***	***8.45***	***0.03***	***0.35***	***0.26***
Onsite			**Winter**					
	Off-Road Equipment	0.91	0.76	6.67	8.03	0.02	0.25	0.23
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.91**	**0.76**	**6.67**	**8.03**	**0.02**	**0.25**	**0.23**
Offsite								
	Worker	0.02	0.02	0.03	0.33	0.00	0.08	0.02
	Vendor	0.01	0.01	0.07	0.03	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.03**	**0.03**	**0.10**	**0.36**	**0.01**	**0.10**	**0.03**
TOTAL		***0.94***	***0.79***	***6.77***	***8.39***	***0.03***	***0.35***	***0.26***
Onsite								
	Off-Road Equipment	0.91	0.76	6.67	8.03	0.02	0.25	0.23
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.91**	**0.76**	**6.67**	**8.03**	**0.02**	**0.25**	**0.23**
Offsite								
	Worker	0.02	0.02	0.03	0.39	0.00	0.08	0.02
	Vendor	0.01	0.01	0.07	0.03	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.03**	**0.03**	**0.10**	**0.42**	**0.01**	**0.10**	**0.03**
TOTAL		***0.94***	***0.79***	***6.77***	***8.45***	***0.03***	***0.35***	***0.26***

3.5. Building Construction (2027)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.88	0.74	6.45	8.02	0.02	0.23	0.21
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.88**	**0.74**	**6.45**	**8.02**	**0.02**	**0.23**	**0.21**
Offsite								
	Worker	0.02	0.02	0.02	0.36	0.00	0.08	0.02
	Vendor	0.01	0.01	0.07	0.03	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.03**	**0.03**	**0.09**	**0.39**	**0.01**	**0.10**	**0.03**
TOTAL		***0.91***	***0.77***	***6.54***	***8.41***	***0.03***	***0.33***	***0.24***
Onsite			**Winter**					
	Off-Road Equipment	0.88	0.74	6.45	8.02	0.02	0.23	0.21
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.88**	**0.74**	**6.45**	**8.02**	**0.02**	**0.23**	**0.21**
Offsite								
	Worker	0.02	0.02	0.03	0.31	0.00	0.08	0.02
	Vendor	0.01	0.01	0.07	0.03	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.03**	**0.03**	**0.10**	**0.34**	**0.01**	**0.10**	**0.03**
TOTAL		***0.91***	***0.77***	***6.55***	***8.36***	***0.03***	***0.33***	***0.24***
Onsite								
	Off-Road Equipment	0.88	0.74	6.45	8.02	0.02	0.23	0.21
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.88**	**0.74**	**6.45**	**8.02**	**0.02**	**0.23**	**0.21**
Offsite								
	Worker	0.02	0.02	0.03	0.36	0.00	0.08	0.02
	Vendor	0.01	0.01	0.07	0.03	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.03**	**0.03**	**0.10**	**0.39**	**0.01**	**0.10**	**0.03**
TOTAL		***0.91***	***0.77***	***6.55***	***8.41***	***0.03***	***0.33***	***0.24***

3.7. Paving (2027)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.77	0.65	5.74	8.20	0.01	0.23	0.21
	Paving	0.00	0.06	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.77**	**0.71**	**5.74**	**8.20**	**0.01**	**0.23**	**0.21**
Offsite								
	Worker	0.06	0.05	0.05	0.90	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.05**	**0.05**	**0.90**	**0.00**	**0.20**	**0.05**
TOTAL		***0.83***	***0.76***	***5.79***	***9.10***	***0.01***	***0.43***	***0.26***
Onsite			**Winter**					
	Off-Road Equipment	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
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	0.77	0.65	5.74	8.20	0.01	0.23	0.21
	Paving	0.00	0.06	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.77**	**0.71**	**5.74**	**8.20**	**0.01**	**0.23**	**0.21**
Offsite								
	Worker	0.06	0.05	0.05	0.90	0.00	0.20	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.06**	**0.05**	**0.05**	**0.90**	**0.00**	**0.20**	**0.05**
TOTAL		***0.83***	***0.76***	***5.79***	***9.10***	***0.01***	***0.43***	***0.26***

3.9. Trenching (2026)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.39	0.32	2.87	3.76	0.01	0.08	0.08
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.39**	**0.32**	**2.87**	**3.76**	**0.01**	**0.08**	**0.08**
Offsite								
	Worker	0.04	0.04	0.04	0.65	0.00	0.13	0.03
	Vendor	0.01	0.01	0.07	0.03	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.05**	**0.05**	**0.11**	**0.68**	**0.01**	**0.15**	**0.04**
TOTAL		***0.44***	***0.37***	***2.98***	***4.44***	***0.02***	***0.23***	***0.12***
Onsite			**Winter**					
	Off-Road Equipment	0.39	0.32	2.87	3.76	0.01	0.08	0.08
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.39**	**0.32**	**2.87**	**3.76**	**0.01**	**0.08**	**0.08**
Offsite								
	Worker	0.04	0.04	0.04	0.55	0.00	0.13	0.03
	Vendor	0.01	0.01	0.07	0.03	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.05**	**0.05**	**0.11**	**0.58**	**0.01**	**0.15**	**0.04**
TOTAL		***0.44***	***0.37***	***2.98***	***4.34***	***0.02***	***0.23***	***0.12***
Onsite								
	Off-Road Equipment	0.39	0.32	2.87	3.76	0.01	0.08	0.08
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.39**	**0.32**	**2.87**	**3.76**	**0.01**	**0.08**	**0.08**
Offsite								
	Worker	0.04	0.04	0.04	0.65	0.00	0.13	0.03
	Vendor	0.01	0.01	0.07	0.03	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.05**	**0.05**	**0.11**	**0.68**	**0.01**	**0.15**	**0.04**
TOTAL		***0.44***	***0.37***	***2.98***	***4.44***	***0.02***	***0.23***	***0.12***

3.11. Trenching (2026)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.37	0.31	2.80	3.75	0.01	0.07	0.07
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.37**	**0.31**	**2.80**	**3.75**	**0.01**	**0.07**	**0.07**
Offsite								
	Worker	0.04	0.04	0.03	0.60	0.00	0.13	0.03
	Vendor	0.01	0.01	0.07	0.03	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.05**	**0.05**	**0.10**	**0.63**	**0.01**	**0.15**	**0.04**
TOTAL		***0.42***	***0.36***	***2.90***	***4.38***	***0.02***	***0.22***	***0.11***
Onsite			**Winter**					
	Off-Road Equipment	0.37	0.31	2.80	3.75	0.01	0.07	0.07
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.37**	**0.31**	**2.80**	**3.75**	**0.01**	**0.07**	**0.07**
Offsite								
	Worker	0.04	0.03	0.04	0.51	0.00	0.13	0.03
	Vendor	0.01	0.01	0.07	0.03	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.05**	**0.04**	**0.11**	**0.54**	**0.01**	**0.15**	**0.04**
TOTAL		***0.42***	***0.35***	***2.91***	***4.29***	***0.02***	***0.22***	***0.11***
Onsite								
	Off-Road Equipment	0.37	0.31	2.80	3.75	0.01	0.07	0.07
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.37**	**0.31**	**2.80**	**3.75**	**0.01**	**0.07**	**0.07**
Offsite								
	Worker	0.04	0.04	0.04	0.60	0.00	0.13	0.03
	Vendor	0.01	0.01	0.07	0.03	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.05**	**0.05**	**0.11**	**0.63**	**0.01**	**0.15**	**0.04**
TOTAL		***0.42***	***0.36***	***2.91***	***4.38***	***0.02***	***0.22***	***0.11***

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Sewer Main and Storm Drain Site Site Preparation (Private)	***1.39***	***1.17***	***10.21***	***11.45***	***0.04***	***1.23***	***0.51***
Sewer Main and Storm Drain Site Utility Trenching (Private) 2026	***0.44***	***0.37***	***2.98***	***4.44***	***0.02***	***0.23***	***0.12***
Sewer Main and Storm Drain Site Pipeline Construction (Private) 2026	***0.94***	***0.79***	***6.77***	***8.45***	***0.03***	***0.35***	***0.26***
Sewer Main and Storm Drain Site Utility Trenching (Private) 2027	***0.42***	***0.36***	***2.91***	***4.38***	***0.02***	***0.22***	***0.11***
Sewer Main and Storm Drain Site Pipeline Construction (Private) 2027	***0.91***	***0.77***	***6.55***	***8.41***	***0.03***	***0.33***	***0.24***
Sewer Main and Storm Drain Site Paving (Private)	***0.83***	***0.76***	***5.79***	***9.10***	***0.01***	***0.43***	***0.26***

Option 1

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Option 1 Building 1 Construction 2024 and Utilities Trenching	***5.97***	***4.94***	***33.83***	***62.79***	***0.10***	***8.34***	***2.86***
Option 1 Building 1 Construction 2024	***3.95***	***3.24***	***20.03***	***47.75***	***0.06***	***7.45***	***2.20***
Option 1 Building 1 Construction 2025	***3.72***	***3.08***	***18.56***	***45.08***	***0.06***	***7.38***	***2.10***
Option 1 Building 1 Construction 2025, Paving, and Architectural Coating	***5.56***	***5.87***	***27.96***	***68.76***	***0.08***	***10.15***	***3.01***
Option 1 Rough Grading, Utilities Trenching, and Buildings 2 and 3 Construction 2026	***8.97***	***7.44***	***57.25***	***86.81***	***0.16***	***13.24***	***5.15***
Option 1 Buildings 2 and 3 Construction 2026	***3.39***	***2.76***	***17.55***	***42.82***	***0.06***	***7.33***	***2.05***
Option 1 Buildings 2 and 3 Construction 2027	***3.25***	***2.67***	***16.80***	***40.66***	***0.06***	***7.26***	***2.01***
Option 1 Buildings 2 and 3 Construction, Paving, and Architectural Coating	***4.97***	***8.84***	***25.97***	***62.74***	***0.08***	***10.04***	***2.92***
Option 1 Buildings 2 and 3 Construction, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping	***10.36***	***13.36***	***63.05***	***106.05***	***0.17***	***15.78***	***5.89***

Option 2

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Option 2 BESS Site Construction 2024 and Utilities Trenching	*5.22*	*4.34*	*31.24*	*52.59*	*0.085*	*6.3*	*2.35*
Option 2 BESS Construction 2024	*3.2*	*2.64*	*17.44*	*37.55*	*0.05*	*5.41*	*1.69*
Option 2 BESS Construction 2025	*3.02*	*2.51*	*16.16*	*35.64*	*0.05*	*5.34*	*1.61*
Option 2 BESS Construction 2025 and Paving	*4.04*	*4.01*	*23.68*	*46.66*	*0.06*	*5.89*	*1.98*
Option 2 Rough Grading, Utilities Trenching, and Buildings 1 and 2 Construction 2026	*8.35*	*6.95*	*54.99*	*78.01*	*0.15*	*11.2*	*4.66*
Option 2 Buildings 1 and 2 Construction 2026	*2.77*	*2.27*	*15.29*	*34.02*	*0.05*	*5.29*	*1.56*
Option 2 Buildings 1 and 2 Construction 2027	*2.65*	*2.19*	*14.61*	*32.51*	*0.05*	*5.22*	*1.52*
Option 2 Buildings 1 and 2 Construction 2027, Paving, and Architectural Coating	*4.17*	*8.32*	*23.61*	*51.59*	*0.065*	*7.35*	*2.28*
Option 2 Buildings 1 and 2 Construction 2027, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping	*9.56*	*12.84*	*60.69*	*94.9*	*0.16*	*13.09*	*5.25*

Offsite Improvements

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Linear, Grubbing & Land Clearing	*0.49*	*0.42*	*3.56*	*3.85*	*0.01*	*0.53*	*0.24*
Linear, Grading & Excavation	*3.91*	*3.26*	*28.38*	*31.93*	*0.07*	*3.07*	*1.39*
Linear, Drainage, Utilities, & Sub-Grade	*3.15*	*2.64*	*23.70*	*25.66*	*0.06*	*2.43*	*1.08*
Linear, Paving	*1.14*	*0.96*	*7.79*	*11.83*	*0.01*	*0.57*	*0.36*

Sewer Main and Storm Drain Construction (Public)

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Sewer Main and Storm Drain Site Site Preparation (Public)	*1.48*	*1.23*	*11.32*	*11.62*	*0.035*	*1.28*	*0.55*
Sewer Main and Storm Drain Site Utility Trenching (Public)	*0.465*	*0.385*	*3.09*	*4.51*	*0.015*	*0.25*	*0.13*
Sewer Main and Storm Drain Site Pipeline Construction (Public)	*0.985*	*0.825*	*7.11*	*8.56*	*0.025*	*0.37*	*0.28*
Sewer Main and Storm Drain Site Paving (Public)	*0.9*	*0.77*	*6.2*	*9.09*	*0.01*	*0.47*	*0.3*

Sewer Main and Storm Drain Construction (Private)

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Sewer Main and Storm Drain Site Site Preparation (Private)	*1.39*	*1.17*	*10.21*	*11.45*	*0.04*	*1.23*	*0.51*
Sewer Main and Storm Drain Site Utility Trenching (Private) 2026	*0.44*	*0.37*	*2.98*	*4.44*	*0.02*	*0.23*	*0.12*
Sewer Main and Storm Drain Site Pipeline Construction (Private) 2026	*0.94*	*0.79*	*6.77*	*8.45*	*0.03*	*0.35*	*0.26*
Sewer Main and Storm Drain Site Utility Trenching (Private) 2027	*0.42*	*0.36*	*2.91*	*4.38*	*0.02*	*0.22*	*0.11*
Sewer Main and Storm Drain Site Pipeline Construction (Private) 2027	*0.91*	*0.77*	*6.55*	*8.41*	*0.03*	*0.33*	*0.24*
Sewer Main and Storm Drain Site Paving (Private)	*0.83*	*0.76*	*5.79*	*9.10*	*0.01*	*0.43*	*0.26*

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Option 1 Building 1 Construction 2024 and Utilities Trenching	5	34	63	0	8	3
Option 1 Building 1 Construction 2024	3	20	48	0	7	2
Option 1 Building 1 Construction 2025 | Linear, Grubbing & Land Clearing	3	22	49	0	8	2
Option 1 Building 1 Construction 2025 | Linear, Grubbing & Land Clearing | Sewer Main and Storm Drain Site Site Preparation (Public)	5	33	61	0	9	3
Option 1 Building 1 Construction 2025 | Linear, Grading & Excavation | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public)	8	57	90	0	11	4
Option 1 Building 1 Construction 2025, Paving, and Architectural Coating | Linear, Grading & Excavation | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public)	10	67	114	0	14	5
Linear, Grading & Excavation | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public)	4	39	45	0	4	2
Linear, Drainage, Utilities, & Sub-Grade | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public)	4	34	39	0	3	1
Linear, Paving | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public)	2	18	25	0	1	1
Linear, Paving | Sewer Main and Storm Drain Site Utility Trenching, Pipeline Construction, and Paving (Public)	3	24	34	0	2	1
Linear, Paving | Sewer Main and Storm Drain Site Paving (Public)	2	14	21	0	1	1
Linear, Paving	1	6	9	0	0	0
Option 1 Rough Grading, Utilities Trenching, and Buildings 2 and 3 Construction 2026 | Sewer Main and Storm Drain Site Site Preparation (Private)	9	67	98	0	14	6
Option 1 Rough Grading, Utilities Trenching, and Buildings 2 and 3 Construction 2026 | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Private)	9	67	100	0	14	6
Option 1 Buildings 2 and 3 Construction 2026 | Sewer Main and Public Storm Drain Site Utility Trenching and Pipeline Construction (Private)	4	27	56	0	8	2
Option 1 Buildings 2 and 3 Construction 2027 | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Private)	4	26	53	0	8	2
Option 1 Buildings 2 and 3 Construction, Paving, and Architectural Coating | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Private)	10	35	76	0	11	3
Option 1 Buildings 2 and 3 Construction, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Private)	14	73	119	0	16	6
Option 1 Buildings 2 and 3 Construction, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping | Sewer Main and Storm Drain Site Utility Trenching, Pipeline Construction, and Paving (Private)	15	78	128	0	17	7
Option 1 Buildings 2 and 3 Construction, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping | Sewer Main and Storm Drain Site Paving (Private)	14	69	115	0	16	6
MAX DAILY	**15**	**78**	**128**	**0**	**17**	**7**
Regional Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	No	No	No	No	No	No

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Option 2 BESS Site Utility Trenching and Construction	*4*	*31*	*53*	*0*	*6*	*2*
Option 2 BESS Construction 2024	*3*	*17*	*38*	*0*	*5*	*2*
Option 2 BESS Construction 2025 | Linear, Grubbing & Land Clearing	*3*	*20*	*39*	*0*	*6*	*2*
Option 2 BESS Construction 2025 | Linear, Grubbing & Land Clearing | Sewer Main and Public Storm Drain Site Site Preparation (Public)	*4*	*31*	*51*	*0*	*7*	*2*
Option 2 BESS Construction 2025 | Linear, Grading & Excavation | Sewer Main and Public Storm Drain Site Utility Trenching and Pipeline Construction (Public)	*7*	*55*	*81*	*0*	*9*	*3*
Option 2 BESS Construction 2025 and Paving | Linear, Grading & Excavation | Sewer Main and Public Storm Drain Site Utility Trenching and Pipeline Construction (Public)	*8*	*62*	*92*	*0*	*10*	*4*
Linear, Grading & Excavation | Sewer Main and Public Storm Drain Site Utility Trenching and Pipeline Construction (Public)	*4*	*39*	*45*	*0*	*4*	*2*
Linear, Drainage, Utilities, & Sub-Grade | Sewer Main and Public Storm Drain Site Utility Trenching and Pipeline Construction (Public)	*4*	*34*	*39*	*0*	*3*	*1*
Linear, Paving | Sewer Main and Public Storm Drain Site Utility Trenching and Pipeline Construction (Public)	*2*	*18*	*25*	*0*	*1*	*1*
Linear, Paving | Sewer Main and Public Storm Drain Site Utility Trenching, Pipeline Construction, and Paving (Public)	*3*	*24*	*34*	*0*	*2*	*1*
Linear, Paving | Sewer Main and Public Storm Drain Site Paving (Public)	*2*	*14*	*21*	*0*	*1*	*1*
Linear, Paving	*1*	*6*	*9*	*0*	*0*	*0*
Option 2 Rough Grading, Utilities Trenching, and Buildings 1 and 2 Construction 2026 | Sewer Main and Public Storm Drain Site Site Preparation (Private)	*8*	*65*	*89*	*0*	*12*	*5*
Option 2 Rough Grading, Utilities Trenching, and Buildings 1 and 2 Construction 2026 | Sewer Main and Public Storm Drain Site Utility Trenching and Pipeline Construction (Private)	*8*	*65*	*91*	*0*	*12*	*5*
Option 2 Buildings 1 and 2 Construction 2026 | Sewer Main and Public Storm Drain Site Utility Trenching and Pipeline Construction (Private)	*3*	*25*	*47*	*0*	*6*	*2*
Option 2 Buildings 1 and 2 Construction 2027 | Sewer Main and Public Storm Drain Site Utility Trenching and Pipeline Construction (Private)	*3*	*24*	*45*	*0*	*6*	*2*
Option 2 Buildings 1 and 2 Construction 2027, Paving, and Architectural Coating | Sewer Main and Public Storm Drain Site Utility Trenching and Pipeline Construction (Private)	*9*	*33*	*64*	*0*	*8*	*3*
Option 2 Buildings 1 and 2 Construction 2027, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping | Sewer Main and Public Storm Drain Site Utility Trenching and Pipeline Construction (Private)	*14*	*70*	*108*	*0*	*14*	*6*
Option 2 Buildings 1 and 2 Construction 2027, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping | Sewer Main and Storm Drain Site Utility Trenching, Pipeline Construction, and Paving (Private)	*15*	*76*	*117*	*0*	*14*	*6*
Option 2 Buildings 1 and 2 Construction 2027, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping | Sewer Main and Storm Drain Site Paving (Private)	*14*	*66*	*104*	*0*	*14*	*6*
MAX DAILY	**15**	**76**	**117**	**0**	**14**	**6**
Regional Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	No	No	No	No	No	No

Construction LST Worksheet

Option 1

3.1. Option 1 Rough Grading - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	3.62	3.04	27.20	27.60	0.06	1.12	1.03
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.62**	**3.04**	**27.20**	**27.60**	**0.06**	**4.71**	**2.45**
TOTAL		***3.62***	***3.04***	***27.20***	***27.60***	***0.06***	***4.71***	***2.45***
Onsite			**Winter**					
	Off-Road Equipment	3.62	3.04	27.20	27.60	0.06	1.12	1.03
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.62**	**3.04**	**27.20**	**27.60**	**0.06**	**4.71**	**2.45**
TOTAL		***3.62***	***3.04***	***27.20***	***27.60***	***0.06***	***4.71***	***2.45***
Onsite								
	Off-Road Equipment	3.62	3.04	27.20	27.60	0.06	1.12	1.03
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.62**	**3.04**	**27.20**	**27.60**	**0.06**	**4.71**	**2.45**
TOTAL		***3.62***	***3.04***	***27.20***	***27.60***	***0.06***	***4.71***	***2.45***

3.3. Option 1 Fine Grading (2027) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	3.51	2.95	25.60	27.30	0.06	1.04	0.96
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.51**	**2.95**	**25.60**	**27.30**	**0.06**	**4.63**	**2.38**
TOTAL		***3.51***	***2.95***	***25.60***	***27.30***	***0.06***	***4.63***	***2.38***
Onsite			**Winter**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	3.51	2.95	25.60	27.30	0.06	1.04	0.96
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	3.59	1.42
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.51**	**2.95**	**25.60**	**27.30**	**0.06**	**4.63**	**2.38**
TOTAL		***3.51***	***2.95***	***25.60***	***27.30***	***0.06***	***4.63***	***2.38***

3.5. Option 1 Building 1 Construction (2024) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.44	1.20	11.20	13.10	0.02	0.50	0.46
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.44**	**1.20**	**11.20**	**13.10**	**0.02**	**0.50**	**0.46**
Offsite								
	Worker							
	Vendor							
	Hauling							
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***1.44***	***1.20***	***11.20***	***13.10***	***0.02***	***0.50***	***0.46***
Onsite			**Winter**					
	Off-Road Equipment	1.44	1.20	11.20	13.10	0.02	0.50	0.46
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.44**	**1.20**	**11.20**	**13.10**	**0.02**	**0.50**	**0.46**
Offsite								
	Worker							
	Vendor							
	Hauling							
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***1.44***	***1.20***	***11.20***	***13.10***	***0.02***	***0.50***	***0.46***
Onsite								
	Off-Road Equipment	1.44	1.20	11.20	13.10	0.02	0.50	0.46

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.44**	**1.20**	**11.20**	**13.10**	**0.02**	**0.50**	**0.46**
TOTAL	***1.44***	***1.20***	***11.20***	***13.10***	***0.02***	***0.50***	***0.46***

3.7. Option 1 Building 1 Construction (2025) - Unmitigated

	TOG	ROG	NOx	CO	SO_2	PM10 Total	PM2.5Total
Onsite		**Summer**					
Off-Road Equipment	1.35	1.13	10.40	13.00	0.02	0.43	0.40
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.35**	**1.13**	**10.40**	**13.00**	**0.02**	**0.43**	**0.40**
TOTAL	***1.35***	***1.13***	***10.40***	***13.00***	***0.02***	***0.43***	***0.40***
Onsite		**Winter**					
Off-Road Equipment	1.35	1.13	10.40	13.00	0.02	0.43	0.40
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.35**	**1.13**	**10.40**	**13.00**	**0.02**	**0.43**	**0.40**
TOTAL	***1.35***	***1.13***	***10.40***	***13.00***	***0.02***	***0.43***	***0.40***
Onsite							
Off-Road	1.35	1.13	10.40	13.00	0.02	0.43	0.40
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.35**	**1.13**	**10.40**	**13.00**	**0.02**	**0.43**	**0.40**
TOTAL	***1.35***	***1.13***	***10.40***	***13.00***	***0.02***	***0.43***	***0.40***

3.9. Option 1 Buildings 2 and 3 Construction (2026) - Unmitigated

	TOG	ROG	NOx	CO	SO_2	PM10 Total	PM2.5Total
Onsite		**Summer**					
Off-Road Equipment	1.28	1.07	9.85	13.00	0.02	0.38	0.35
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.28**	**1.07**	**9.85**	**13.00**	**0.02**	**0.38**	**0.35**
TOTAL	***1.28***	***1.07***	***9.85***	***13.00***	***0.02***	***0.38***	***0.35***
Onsite		**Winter**					
Off-Road Equipment	1.28	1.07	9.85	13.00	0.02	0.38	0.35
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.28**	**1.07**	**9.85**	**13.00**	**0.02**	**0.38**	**0.35**

TOTAL		***1.28***	***1.07***	***9.85***	***13.00***	***0.02***	***0.38***	***0.35***
Onsite								
	Off-Road	1.28	1.07	9.85	13.00	0.02	0.38	0.35
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.28**	**1.07**	**9.85**	**13.00**	**0.02**	**0.38**	**0.35**
Offsite								
	Worker	0.00	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	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***1.28***	***1.07***	***9.85***	***13.00***	***0.02***	***0.38***	***0.35***

3.11. Option 1 Buildings 2 and 3 Construction (2027) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.23	1.03	9.39	12.90	0.02	0.34	0.31
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.23**	**1.03**	**9.39**	**12.90**	**0.02**	**0.34**	**0.31**

TOTAL		***1.23***	***1.03***	***9.39***	***12.90***	***0.02***	***0.34***	***0.31***
Onsite			**Winter**					
	Off-Road Equipment	1.23	1.03	9.39	12.90	0.02	0.34	0.31
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.23**	**1.03**	**9.39**	**12.90**	**0.02**	**0.34**	**0.31**
TOTAL		***1.23***	***1.03***	***9.39***	***12.90***	***0.02***	***0.34***	***0.31***
Onsite								
	Off-Road Equipment	1.23	1.03	9.39	12.90	0.02	0.34	0.31
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.23**	**1.03**	**9.39**	**12.90**	**0.02**	**0.34**	**0.31**
TOTAL		***1.23***	***1.03***	***9.39***	***12.90***	***0.02***	***0.34***	***0.31***

3.13. Option 1 Building 1 Paving (2025) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	0.32
	Paving	0.00	0.89	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**1.69**	**7.45**	**9.98**	**0.01**	**0.35**	**0.32**
TOTAL		***0.95***	***1.69***	***7.45***	***9.98***	***0.01***	***0.35***	***0.32***
Onsite			**Winter**					
	Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	0.32
	Paving	0.00	0.89	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**1.69**	**7.45**	**9.98**	**0.01**	**0.35**	**0.32**
TOTAL		***0.95***	***1.69***	***7.45***	***9.98***	***0.01***	***0.35***	***0.32***
Onsite								
	Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	0.32
	Paving	0.00	0.89	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**1.69**	**7.45**	**9.98**	**0.01**	**0.35**	**0.32**
TOTAL		***0.95***	***1.69***	***7.45***	***9.98***	***0.01***	***0.35***	***0.32***

3.15. Option 1 Building 1 Architectural Coating (2025) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.15	0.13	0.88	1.14	0.01	0.03	0.03
	Architectural Coatings	0.00	6.54	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.15**	**6.67**	**0.88**	**1.14**	**0.01**	**0.03**	**0.03**
TOTAL		***0.15***	***6.67***	***0.88***	***1.14***	***0.01***	***0.03***	***0.03***
Onsite			**Winter**					
	Off-Road Equipment	0.15	0.13	0.88	1.14	0.01	0.03	0.03
	Architectural Coatings	0.00	6.54	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.15**	**6.67**	**0.88**	**1.14**	**0.01**	**0.03**	**0.03**
TOTAL		***0.15***	***6.67***	***0.88***	***1.14***	***0.01***	***0.03***	***0.03***
Onsite								
	Off-Road Equipment	0.15	0.13	0.88	1.14	0.01	0.03	0.03
	Architectural Coatings	0.00	6.54	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.15**	**6.67**	**0.88**	**1.14**	**0.01**	**0.03**	**0.03**
TOTAL		***0.15***	***6.67***	***0.88***	***1.14***	***0.01***	***0.03***	***0.03***

3.17. Option 1 Buildings 2 and 3 Architectural Coating (2027) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.14	0.11	0.83	1.13	0.01	0.02	0.02
	Onsite truck	0.00	81.70	0.00	0.00	0.00	0.00	0.00
	Total	**0.14**	**81.81**	**0.83**	**1.13**	**0.01**	**0.02**	**0.02**
TOTAL		***0.14***	***81.81***	***0.83***	***1.13***	***0.01***	***0.02***	***0.02***
Onsite			**Winter**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								

Off-Road Equipment	0.14	0.11	0.83	1.13	0.01	0.02	0.02
Onsite truck	0.00	81.70	0.00	0.00	0.00	0.00	0.00
Total	**0.14**	**81.81**	**0.83**	**1.13**	**0.01**	**0.02**	**0.02**
TOTAL	***0.14***	***81.81***	***0.83***	***1.13***	***0.01***	***0.02***	***0.02***

3.19. Option 1 Building 1 Utility Trenching (2024) - Unmitigated

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**Summer**					
Off-Road Equipment	1.93	1.62	13.50	13.80	0.03	0.64	0.59
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.93**	**1.62**	**13.50**	**13.80**	**0.03**	**0.64**	**0.59**
TOTAL	***1.93***	***1.62***	***13.50***	***13.80***	***0.03***	***0.64***	***0.59***
Onsite		**Winter**					
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite							
Off-Road Equipment	1.93	1.62	13.50	13.80	0.03	0.64	0.59
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.93**	**1.62**	**13.50**	**13.80**	**0.03**	**0.64**	**0.59**
TOTAL	***1.93***	***1.62***	***13.50***	***13.80***	***0.03***	***0.64***	***0.59***

3.21. Option 1 Buildings 2 and 3 Utility Trenching (2026) - Unmitigated

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**Summer**					
Off-Road Equipment	1.76	1.48	11.40	13.70	0.03	0.51	0.47
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.76**	**1.48**	**11.40**	**13.70**	**0.03**	**0.51**	**0.47**
TOTAL	***1.76***	***1.48***	***11.40***	***13.70***	***0.03***	***0.51***	***0.47***
Onsite		**Winter**					
Off-Road Equipment	1.76	1.48	11.40	13.70	0.03	0.51	0.47
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.76**	**1.48**	**11.40**	**13.70**	**0.03**	**0.51**	**0.47**
TOTAL	***1.76***	***1.48***	***11.40***	***13.70***	***0.03***	***0.51***	***0.47***
Onsite							
Off-Road Equipment	1.76	1.48	11.40	13.70	0.03	0.51	0.47
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.76**	**1.48**	**11.40**	**13.70**	**0.03**	**0.51**	**0.47**
TOTAL	***1.76***	***1.48***	***11.40***	***13.70***	***0.03***	***0.51***	***0.47***

3.23. Option 1 Finishing/Landscaping (2027) - Unmitigated

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**Summer**					
Off-Road Equipment	1.70	1.43	10.70	13.60	0.03	0.47	0.43
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.70**	**1.43**	**10.70**	**13.60**	**0.03**	**0.47**	**0.43**
TOTAL	***1.70***	***1.43***	***10.70***	***13.60***	***0.03***	***0.47***	***0.43***
Onsite		**Winter**					
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite							
Off-Road Equipment	1.70	1.43	10.70	13.60	0.03	0.47	0.43
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.70**	**1.43**	**10.70**	**13.60**	**0.03**	**0.47**	**0.43**
TOTAL	***1.70***	***1.43***	***10.70***	***13.60***	***0.03***	***0.47***	***0.43***

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Option 1 Building 1 Construction 2024 and Utilities Trenching	***3.37***	***2.82***	***24.70***	***26.90***	***0.05***	***1.14***	***1.05***
Option 1 Building 1 Construction 2024	***1.44***	***1.20***	***11.20***	***13.10***	***0.02***	***0.50***	***0.46***
Option 1 Building 1 Construction 2025	***1.35***	***1.13***	***10.40***	***13.00***	***0.02***	***0.43***	***0.40***
Option 1 Building 1 Construction 2025, Paving, and Architectural Coating	***2.45***	***9.49***	***18.73***	***24.12***	***0.04***	***0.81***	***0.75***

Option 1 Rough Grading, Utilities Trenching, and Buildings 2 and 3 Construction 2026	***6.66***	***5.59***	***48.45***	***54.30***	***0.11***	***5.60***	***3.27***
Option 1 Buildings 2 and 3 Construction 2026	***1.28***	***1.07***	***9.85***	***13.00***	***0.02***	***0.38***	***0.35***
Option 1 Buildings 2 and 3 Construction 2027	***1.23***	***1.03***	***9.39***	***12.90***	***0.02***	***0.34***	***0.31***
Option 1 Buildings 2 and 3 Construction, Paving, and Architectural Coating	***2.32***	***84.53***	***17.67***	***24.01***	***0.04***	***0.71***	***0.65***
Option 1 Buildings 2 and 3 Construction, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping	***7.53***	***88.91***	***53.97***	***64.91***	***0.13***	***5.81***	***3.46***

Phase 2

3.1. Option 2 Rough Grading - Unmitigated

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**Summer**					
Off-Road Equipment	3.62	3.04	27.20	27.60	0.06	1.12	1.03
Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	3.59	1.42
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**3.62**	**3.04**	**27.20**	**27.60**	**0.06**	**4.71**	**2.45**
TOTAL	***3.62***	***3.04***	***27.20***	***27.60***	***0.06***	***4.71***	***2.45***
Onsite		**Winter**					
Off-Road Equipment	3.62	3.04	27.20	27.60	0.06	1.12	1.03
Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	3.59	1.42
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**3.62**	**3.04**	**27.20**	**27.60**	**0.06**	**4.71**	**2.45**
TOTAL	***3.62***	***3.04***	***27.20***	***27.60***	***0.06***	***4.71***	***2.45***
Onsite							
Off-Road Equipment	3.62	3.04	27.20	27.60	0.06	1.12	1.03
Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	3.59	1.42
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**3.62**	**3.04**	**27.20**	**27.60**	**0.06**	**4.71**	**2.45**
TOTAL	***3.62***	***3.04***	***27.20***	***27.60***	***0.06***	***4.71***	***2.45***

3.3. Option 2 Fine Grading (2027) - Unmitigated

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**Summer**					
Off-Road Equipment	3.51	2.95	25.60	27.30	0.06	1.04	0.96
Onsite truck	0.00	0.00	0.00	0.00	0.00	3.59	1.42
Total	**3.51**	**2.95**	**25.60**	**27.30**	**0.06**	**4.63**	**2.38**
TOTAL	***3.51***	***2.95***	***25.60***	***27.30***	***0.06***	***4.63***	***2.38***
Onsite		**Winter**					
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite							
Off-Road Equipment	3.51	2.95	25.60	27.30	0.06	1.04	0.96
Onsite truck	0.00	0.00	0.00	0.00	0.00	3.59	1.42
Total	**3.51**	**2.95**	**25.60**	**27.30**	**0.06**	**4.63**	**2.38**
TOTAL	***3.51***	***2.95***	***25.60***	***27.30***	***0.06***	***4.63***	***2.38***

3.5. Option 2 BESS Construction (2024) - Unmitigated

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**Summer**					
Off-Road Equipment	1.44	1.20	11.20	13.10	0.02	0.50	0.46
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.44**	**1.20**	**11.20**	**13.10**	**0.02**	**0.50**	**0.46**
TOTAL	***1.44***	***1.20***	***11.20***	***13.10***	***0.02***	***0.50***	***0.46***
Onsite		**Winter**					
Off-Road Equipment	1.44	1.20	11.20	13.10	0.02	0.50	0.46
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.44**	**1.20**	**11.20**	**13.10**	**0.02**	**0.50**	**0.46**
TOTAL	***1.44***	***1.20***	***11.20***	***13.10***	***0.02***	***0.50***	***0.46***
Onsite							
Off-Road Equipment	1.44	1.20	11.20	13.10	0.02	0.50	0.46
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total	**1.44**	**1.20**	**11.20**	**13.10**	**0.02**	**0.50**	**0.46**
TOTAL	***1.44***	***1.20***	***11.20***	***13.10***	***0.02***	***0.50***	***0.46***

3.7. Option 2 BESS Construction (2025) - Unmitigated

	TOG	ROG	NOx	CO	SO_2	PM10 Total	PM2.5Total
Onsite		**Summer**					
Off-Road Equipment	1.35	1.13	10.40	13.00	0.02	0.43	0.40
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.35**	**1.13**	**10.40**	**13.00**	**0.02**	**0.43**	**0.40**
TOTAL	***1.35***	***1.13***	***10.40***	***13.00***	***0.02***	***0.43***	***0.40***
Onsite		**Winter**					
Off-Road Equipment	1.35	1.13	10.40	13.00	0.02	0.43	0.40
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.35**	**1.13**	**10.40**	**13.00**	**0.02**	**0.43**	**0.40**
TOTAL	***1.35***	***1.13***	***10.40***	***13.00***	***0.02***	***0.43***	***0.40***
Onsite							
Off-Road	1.35	1.13	10.40	13.00	0.02	0.43	0.40
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.35**	**1.13**	**10.40**	**13.00**	**0.02**	**0.43**	**0.40**
TOTAL	***1.35***	***1.13***	***10.40***	***13.00***	***0.02***	***0.43***	***0.40***

3.9. Option 2 Buildings 1 and 2 Construction (2026) - Unmitigated

	TOG	ROG	NOx	CO	SO_2	PM10 Total	PM2.5Total
Onsite		**Summer**					
Off-Road Equipment	1.28	1.07	9.85	13.00	0.02	0.38	0.35
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.28**	**1.07**	**9.85**	**13.00**	**0.02**	**0.38**	**0.35**
TOTAL	***1.28***	***1.07***	***9.85***	***13.00***	***0.02***	***0.38***	***0.35***
Onsite		**Winter**					
Off-Road Equipment	1.28	1.07	9.85	13.00	0.02	0.38	0.35
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.28**	**1.07**	**9.85**	**13.00**	**0.02**	**0.38**	**0.35**
TOTAL	***1.28***	***1.07***	***9.85***	***13.00***	***0.02***	***0.38***	***0.35***
Onsite							
Off-Road	1.28	1.07	9.85	13.00	0.02	0.38	0.35
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.28**	**1.07**	**9.85**	**13.00**	**0.02**	**0.38**	**0.35**
TOTAL	***1.28***	***1.07***	***9.85***	***13.00***	***0.02***	***0.38***	***0.35***

3.11. Option 2 Buildings 1 and 2 Construction (2027) - Unmitigated

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**Summer**					
Off-Road Equipment	1.23	1.03	9.39	12.90	0.02	0.34	0.31
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.23**	**1.03**	**9.39**	**12.90**	**0.02**	**0.34**	**0.31**
TOTAL	***1.23***	***1.03***	***9.39***	***12.90***	***0.02***	***0.34***	***0.31***
Onsite		**Winter**					
Off-Road Equipment	1.23	1.03	9.39	12.90	0.02	0.34	0.31
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.23**	**1.03**	**9.39**	**12.90**	**0.02**	**0.34**	**0.31**
TOTAL	***1.23***	***1.03***	***9.39***	***12.90***	***0.02***	***0.34***	***0.31***
Onsite							
Off-Road Equipment	1.23	1.03	9.39	12.90	0.02	0.34	0.31
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.23**	**1.03**	**9.39**	**12.90**	**0.02**	**0.34**	**0.31**
TOTAL	***1.23***	***1.03***	***9.39***	***12.90***	***0.02***	***0.34***	***0.31***

3.13. Option 2 Paving (2025) - Unmitigated

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**Summer**					
Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	0.32
Paving	0.00	0.64	0.00	0.00	0.00	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.95**	**1.44**	**7.45**	**9.98**	**0.01**	**0.35**	**0.32**
TOTAL	***0.95***	***1.44***	***7.45***	***9.98***	***0.01***	***0.35***	***0.32***
Onsite		**Winter**					
Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	0.32
Paving	0.00	0.64	0.00	0.00	0.00	0.00	0.00

	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**1.44**	**7.45**	**9.98**	**0.01**	**0.35**	**0.32**
TOTAL		***0.95***	***1.44***	***7.45***	***9.98***	***0.01***	***0.35***	***0.32***
Onsite								
	Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	0.32
	Paving	0.00	0.64	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**1.44**	**7.45**	**9.98**	**0.01**	**0.35**	**0.32**
TOTAL		***0.95***	***1.44***	***7.45***	***9.98***	***0.01***	***0.35***	***0.32***

3.15. Option 2 Buildings 1 and 2 Architectural Coating (2025) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.82	0.68	4.99	6.75	0.01	0.11	0.11
	Architectural Coatings	0.00	63.50	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.82**	**64.18**	**4.99**	**6.75**	**0.01**	**0.11**	**0.11**
TOTAL		***0.82***	***64.18***	***4.99***	***6.75***	***0.01***	***0.11***	***0.11***
Onsite			**Winter**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Architectural Coatings	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	0.82	0.68	4.99	6.75	0.01	0.11	0.11
	Architectural Coatings	0.00	63.50	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.82**	**64.18**	**4.99**	**6.75**	**0.01**	**0.11**	**0.11**
TOTAL		***0.82***	***64.18***	***4.99***	***6.75***	***0.01***	***0.11***	***0.11***

3.17. Option 2 BESS Utility Trenching (2024) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.93	1.62	13.50	13.80	0.03	0.64	0.59
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.93**	**1.62**	**13.50**	**13.80**	**0.03**	**0.64**	**0.59**
TOTAL		***1.93***	***1.62***	***13.50***	***13.80***	***0.03***	***0.64***	***0.59***
Onsite			**Winter**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	1.93	1.62	13.50	13.80	0.03	0.64	0.59
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.93**	**1.62**	**13.50**	**13.80**	**0.03**	**0.64**	**0.59**
TOTAL		***1.93***	***1.62***	***13.50***	***13.80***	***0.03***	***0.64***	***0.59***

3.19. Option 2 Buildings 1 and 2 Utility Trenching (2026) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.76	1.48	11.40	13.70	0.03	0.51	0.47
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.76**	**1.48**	**11.40**	**13.70**	**0.03**	**0.51**	**0.47**
TOTAL		***1.76***	***1.48***	***11.40***	***13.70***	***0.03***	***0.51***	***0.47***
Onsite			**Winter**					
	Off-Road Equipment	1.76	1.48	11.40	13.70	0.03	0.51	0.47
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.76**	**1.48**	**11.40**	**13.70**	**0.03**	**0.51**	**0.47**
TOTAL		***1.76***	***1.48***	***11.40***	***13.70***	***0.03***	***0.51***	***0.47***
Onsite								
	Off-Road Equipment	1.76	1.48	11.40	13.70	0.03	0.51	0.47
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.76**	**1.48**	**11.40**	**13.70**	**0.03**	**0.51**	**0.47**
TOTAL		***1.76***	***1.48***	***11.40***	***13.70***	***0.03***	***0.51***	***0.47***

3.21. Option 2 Finishing/Landscaping (2027) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	1.70	1.43	10.70	13.60	0.03	0.47	0.43
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.70**	**1.43**	**10.70**	**13.60**	**0.03**	**0.47**	**0.43**
TOTAL		***1.70***	***1.43***	***10.70***	***13.60***	***0.03***	***0.47***	***0.43***
Onsite			**Winter**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	1.70	1.43	10.70	13.60	0.03	0.47	0.43
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.70**	**1.43**	**10.70**	**13.60**	**0.03**	**0.47**	**0.43**
TOTAL		***1.70***	***1.43***	***10.70***	***13.60***	***0.03***	***0.47***	***0.43***

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Option 2 BESS Site Construction 2024 and Utilities Trenching	***3.37***	***2.82***	***24.70***	***26.90***	***0.05***	***1.14***	***1.05***
Option 2 BESS Construction 2024	***1.44***	***1.20***	***11.20***	***13.10***	***0.02***	***0.50***	***0.46***
Option 2 BESS Construction 2025	***1.35***	***1.13***	***10.40***	***13.00***	***0.02***	***0.43***	***0.40***
Option 2 BESS Construction 2025 and Paving	***2.30***	***2.57***	***17.85***	***22.98***	***0.03***	***0.78***	***0.72***
Option 2 Rough Grading, Utilities Trenching, and Buildings 1 and 2 Construction 2026	***6.66***	***5.59***	***48.45***	***54.30***	***0.11***	***5.60***	***3.27***
Option 2 Buildings 1 and 2 Construction 2026	***1.28***	***1.07***	***9.85***	***13.00***	***0.02***	***0.38***	***0.35***
Option 2 Buildings 1 and 2 Construction 2027	***1.23***	***1.03***	***9.39***	***12.90***	***0.02***	***0.34***	***0.31***
Option 2 Buildings 1 and 2 Construction 2027, Paving, and Architectural Coating	***3.00***	***66.65***	***21.83***	***29.63***	***0.04***	***0.80***	***0.74***
Option 2 Buildings 1 and 2 Construction 2027, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping	***8.21***	***71.03***	***58.13***	***70.53***	***0.13***	***5.90***	***3.55***

Offsite Improvements

3.1. Linear, Grubbing & Land Clearing (2025) - Unmitigated

		TOG	ROG	NOx	CO	SO_2	PM10 Total	PM2.5Total
Onsite			**Summer**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite			**Winter**					
	Off-Road Equipment	0.46	0.39	3.39	3.49	0.01	0.21	0.19
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.21	0.02
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.46**	**0.39**	**3.39**	**3.49**	**0.01**	**0.42**	**0.21**
TOTAL		***0.46***	***0.39***	***3.39***	***3.49***	***0.01***	***0.42***	***0.21***
Onsite								
	Off-Road Equipment	0.46	0.39	3.39	3.49	0.01	0.21	0.19
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.21	0.02
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.46**	**0.39**	**3.39**	**3.49**	**0.01**	**0.42**	**0.21**
TOTAL		***0.46***	***0.39***	***3.39***	***3.49***	***0.01***	***0.42***	***0.21***

3.3. Linear, Grading & Excavation (2025) - Unmitigated

		TOG	ROG	NOx	CO	SO_2	PM10 Total	PM2.5Total
Onsite			**Summer**					
	Off-Road Equipment	3.71	3.11	27.30	29.40	0.06	1.21	1.11
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	1.24	0.13
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.71**	**3.11**	**27.30**	**29.40**	**0.06**	**2.45**	**1.24**
TOTAL		***3.71***	***3.11***	***27.30***	***29.40***	***0.06***	***2.45***	***1.24***

Onsite			**Winter**					
	Off-Road Equipment	3.71	3.11	27.30	29.40	0.06	1.21	1.11
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	1.24	0.13
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.71**	**3.11**	**27.30**	**29.40**	**0.06**	**2.45**	**1.24**
TOTAL		***3.71***	***3.11***	***27.30***	***29.40***	***0.06***	***2.45***	***1.24***
Onsite								
	Off-Road Equipment	3.71	3.11	27.30	29.40	0.06	1.21	1.11
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	1.24	0.13
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**3.71**	**3.11**	**27.30**	**29.40**	**0.06**	**2.45**	**1.24**
TOTAL		***3.71***	***3.11***	***27.30***	***29.40***	***0.06***	***2.45***	***1.24***

3.5. Linear, Drainage, Utilities, & Sub-Grade (2025) - Unmitigated

		TOG	ROG	NOx	CO	SO_2	PM10 Total	PM2.5Total
Onsite			**Summer**					
	Off-Road Equipment	2.99	2.51	22.90	23.60	0.05	0.91	0.84
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	1.03	0.11
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.99**	**2.51**	**22.90**	**23.60**	**0.05**	**1.94**	**0.95**
TOTAL		***2.99***	***2.51***	***22.90***	***23.60***	***0.05***	***1.94***	***0.95***
Onsite			**Winter**					
	Off-Road Equipment	2.99	2.51	22.90	23.60	0.05	0.91	0.84
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	1.03	0.11
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.99**	**2.51**	**22.90**	**23.60**	**0.05**	**1.94**	**0.95**
TOTAL		***2.99***	***2.51***	***22.90***	***23.60***	***0.05***	***1.94***	***0.95***
Onsite								
	Off-Road	2.99	2.51	22.90	23.60	0.05	0.91	0.84
	Demolition	0.00	0.00	0.00	0.00	0.00	1.03	0.11
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**2.99**	**2.51**	**22.90**	**23.60**	**0.05**	**1.94**	**0.95**
TOTAL		***2.99***	***2.51***	***22.90***	***23.60***	***0.05***	***1.94***	***0.95***

3.7. Linear, Paving (2025) - Unmitigated

		TOG	ROG	NOx	CO	SO_2	PM10 Total	PM2.5Total
Onsite			**Summer**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite			**Winter**					
	Off-Road Equipment	1.06	0.89	7.71	10.80	0.01	0.34	0.31
	Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.06**	**0.89**	**7.71**	**10.80**	**0.01**	**0.34**	**0.31**
TOTAL		***1.06***	***0.89***	***7.71***	***10.80***	***0.01***	***0.34***	***0.31***
Onsite								
	Off-Road	1.06	0.89	7.71	10.80	0.01	0.34	0.31
	Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.06**	**0.89**	**7.71**	**10.80**	**0.01**	**0.34**	**0.31**
TOTAL		***1.06***	***0.89***	***7.71***	***10.80***	***0.01***	***0.34***	***0.31***

	TOG	**ROG**	**NOx**	**CO**	**SO2**	**PM10 Total**	**PM2.5 Total**
Linear, Grubbing & Land Clearing	***0.46***	***0.39***	***3.39***	***3.49***	***0.01***	***0.42***	***0.21***
Linear, Grading & Excavation	***3.71***	***3.11***	***27.30***	***29.40***	***0.06***	***2.45***	***1.24***
Linear, Drainage, Utilities, & Sub-Grade	***2.99***	***2.51***	***22.90***	***23.60***	***0.05***	***1.94***	***0.95***
Linear, Paving	***1.06***	***0.89***	***7.71***	***10.80***	***0.01***	***0.34***	***0.31***

Sewer Main and Storm Drain Site (Public)

3.1. Site Preparation (2025)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite			**Winter**					
	Off-Road Equipment	1.42	1.19	10.90	11.00	0.03	0.47	0.43
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.62	0.07
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.42**	**1.19**	**10.90**	**11.00**	**0.03**	**1.09**	**0.50**
TOTAL		***1.42***	***1.19***	***10.90***	***11.00***	***0.03***	***1.09***	***0.50***
Onsite								
	Off-Road Equipment	1.42	1.19	10.90	11.00	0.03	0.47	0.43
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.62	0.07
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**1.42**	**1.19**	**10.90**	**11.00**	**0.03**	**1.09**	**0.50**
TOTAL		***1.42***	***1.19***	***10.90***	***11.00***	***0.03***	***1.09***	***0.50***

3.3. Building Construction (2025)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.95	0.79	7.00	8.10	0.02	0.27	0.25
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**0.79**	**7.00**	**8.10**	**0.02**	**0.27**	**0.25**
TOTAL		***0.95***	***0.79***	***7.00***	***8.10***	***0.02***	***0.27***	***0.25***
Onsite			**Winter**					
	Off-Road Equipment	0.95	0.79	7.00	8.10	0.02	0.27	0.25
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**0.79**	**7.00**	**8.10**	**0.02**	**0.27**	**0.25**
TOTAL		***0.95***	***0.79***	***7.00***	***8.10***	***0.02***	***0.27***	***0.25***
Onsite								
	Off-Road Equipment	0.95	0.79	7.00	8.10	0.02	0.27	0.25
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.95**	**0.79**	**7.00**	**8.10**	**0.02**	**0.27**	**0.25**
TOTAL		***0.95***	***0.79***	***7.00***	***8.10***	***0.02***	***0.27***	***0.25***

3.5. Paving (2025) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite			**Winter**					
	Off-Road Equipment	0.83	0.70	6.13	8.21	0.01	0.27	0.25
	Onsite truck	0.00	0.01	0.00	0.00	0.00	0.00	0.00
	Total	**0.83**	**0.71**	**6.13**	**8.21**	**0.01**	**0.27**	**0.25**
TOTAL		***0.83***	***0.71***	***6.13***	***8.21***	***0.01***	***0.27***	***0.25***
Onsite								
	Off-Road Equipment	0.83	0.70	6.13	8.21	0.01	0.27	0.25
	Onsite truck	0.00	0.01	0.00	0.00	0.00	0.00	0.00
	Total	**0.83**	**0.71**	**6.13**	**8.21**	**0.01**	**0.27**	**0.25**
TOTAL		***0.83***	***0.71***	***6.13***	***8.21***	***0.01***	***0.27***	***0.25***

3.7. Trenching (2025)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.41	0.34	2.96	3.77	0.01	0.10	0.09
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.41**	**0.34**	**2.96**	**3.77**	**0.01**	**0.10**	**0.09**
TOTAL		***0.41***	***0.34***	***2.96***	***3.77***	***0.01***	***0.10***	***0.09***
Onsite			**Winter**					
	Off-Road Equipment	0.41	0.34	2.96	3.77	0.01	0.10	0.09
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.41**	**0.34**	**2.96**	**3.77**	**0.01**	**0.10**	**0.09**
TOTAL		***0.41***	***0.34***	***2.96***	***3.77***	***0.01***	***0.10***	***0.09***
Onsite								
	Off-Road Equipment	0.41	0.34	2.96	3.77	0.01	0.10	0.09
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total	**0.41**	**0.34**	**2.96**	**3.77**	**0.01**	**0.10**	**0.09**
TOTAL	***0.41***	***0.34***	***2.96***	***3.77***	***0.01***	***0.10***	***0.09***

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Sewer Main and Storm Drain Site Site Preparation (Public)	***1.42***	***1.19***	***10.90***	***11.00***	***0.03***	***1.09***	***0.50***
Sewer Main and Storm Drain Site Utility Trenching (Public)	***0.41***	***0.34***	***2.96***	***3.77***	***0.01***	***0.10***	***0.09***
Sewer Main and Storm Drain Site Pipeline Construction (Public)	***0.95***	***0.79***	***7.00***	***8.10***	***0.02***	***0.27***	***0.25***
Sewer Main and Storm Drain Site Paving (Public)	***0.83***	***0.71***	***6.13***	***8.21***	***0.01***	***0.27***	***0.25***

Sewer Main and Storm Drain Site (Private)

3.1. Site Preparation (2025)

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**Summer**					
Off-Road Equipment	1.34	1.13	9.84	10.80	0.03	0.42	0.39
Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.62	0.07
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.34**	**1.13**	**9.84**	**10.80**	**0.03**	**1.04**	**0.46**
TOTAL	***1.34***	***1.13***	***9.84***	***10.80***	***0.03***	***1.04***	***0.46***
Onsite		**Winter**					
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite							
Off-Road Equipment	1.34	1.13	9.84	10.80	0.03	0.42	0.39
Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.62	0.07
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**1.34**	**1.13**	**9.84**	**10.80**	**0.03**	**1.04**	**0.46**
TOTAL	***1.34***	***1.13***	***9.84***	***10.80***	***0.03***	***1.04***	***0.46***

3.3. Building Construction (2026)

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**Summer**					
Off-Road Equipment	0.91	0.76	6.67	8.03	0.02	0.25	0.23
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.91**	**0.76**	**6.67**	**8.03**	**0.02**	**0.25**	**0.23**
TOTAL	***0.91***	***0.76***	***6.67***	***8.03***	***0.02***	***0.25***	***0.23***
Onsite		**Winter**					
Off-Road Equipment	0.91	0.76	6.67	8.03	0.02	0.25	0.23
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.91**	**0.76**	**6.67**	**8.03**	**0.02**	**0.25**	**0.23**
TOTAL	***0.91***	***0.76***	***6.67***	***8.03***	***0.02***	***0.25***	***0.23***
Onsite							
Off-Road Equipment	0.91	0.76	6.67	8.03	0.02	0.25	0.23
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.91**	**0.76**	**6.67**	**8.03**	**0.02**	**0.25**	**0.23**
TOTAL	***0.91***	***0.76***	***6.67***	***8.03***	***0.02***	***0.25***	***0.23***

3.5. Building Construction (2027)

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**Summer**					
Off-Road Equipment	0.88	0.74	6.45	8.02	0.02	0.23	0.21
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.88**	**0.74**	**6.45**	**8.02**	**0.02**	**0.23**	**0.21**
TOTAL	***0.88***	***0.74***	***6.45***	***8.02***	***0.02***	***0.23***	***0.21***
Onsite		**Winter**					
Off-Road Equipment	0.88	0.74	6.45	8.02	0.02	0.23	0.21
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.88**	**0.74**	**6.45**	**8.02**	**0.02**	**0.23**	**0.21**
TOTAL	***0.88***	***0.74***	***6.45***	***8.02***	***0.02***	***0.23***	***0.21***
Onsite							
Off-Road Equipment	0.88	0.74	6.45	8.02	0.02	0.23	0.21
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.88**	**0.74**	**6.45**	**8.02**	**0.02**	**0.23**	**0.21**
TOTAL	***0.88***	***0.74***	***6.45***	***8.02***	***0.02***	***0.23***	***0.21***

3.7. Paving (2027) - Unmitigated

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.77	0.65	5.74	8.20	0.01	0.23	0.21
	Paving	0.00	0.06	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.77**	**0.71**	**5.74**	**8.20**	**0.01**	**0.23**	**0.21**
TOTAL		***0.77***	***0.71***	***5.74***	***8.20***	***0.01***	***0.23***	***0.21***
Onsite			**Winter**					
	Off-Road Equipment	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
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Onsite								
	Off-Road Equipment	0.77	0.65	5.74	8.20	0.01	0.23	0.21
	Paving	0.00	0.06	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.77**	**0.71**	**5.74**	**8.20**	**0.01**	**0.23**	**0.21**
TOTAL		***0.77***	***0.71***	***5.74***	***8.20***	***0.01***	***0.23***	***0.21***

3.9. Trenching (2026)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.39	0.32	2.87	3.76	0.01	0.08	0.08
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.39**	**0.32**	**2.87**	**3.76**	**0.01**	**0.08**	**0.08**
TOTAL		***0.39***	***0.32***	***2.87***	***3.76***	***0.01***	***0.08***	***0.08***
Onsite			**Winter**					
	Off-Road Equipment	0.39	0.32	2.87	3.76	0.01	0.08	0.08
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.39**	**0.32**	**2.87**	**3.76**	**0.01**	**0.08**	**0.08**
TOTAL		***0.39***	***0.32***	***2.87***	***3.76***	***0.01***	***0.08***	***0.08***
Onsite								
	Off-Road Equipment	0.39	0.32	2.87	3.76	0.01	0.08	0.08
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.39**	**0.32**	**2.87**	**3.76**	**0.01**	**0.08**	**0.08**
TOTAL		***0.39***	***0.32***	***2.87***	***3.76***	***0.01***	***0.08***	***0.08***

3.11. Trenching (2026)

		TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite			**Summer**					
	Off-Road Equipment	0.37	0.31	2.80	3.75	0.01	0.07	0.07
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.37**	**0.31**	**2.80**	**3.75**	**0.01**	**0.07**	**0.07**
TOTAL		***0.37***	***0.31***	***2.80***	***3.75***	***0.01***	***0.07***	***0.07***
Onsite			**Winter**					
	Off-Road Equipment	0.37	0.31	2.80	3.75	0.01	0.07	0.07
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.37**	**0.31**	**2.80**	**3.75**	**0.01**	**0.07**	**0.07**
TOTAL		***0.37***	***0.31***	***2.80***	***3.75***	***0.01***	***0.07***	***0.07***
Onsite								
	Off-Road Equipment	0.37	0.31	2.80	3.75	0.01	0.07	0.07
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.37**	**0.31**	**2.80**	**3.75**	**0.01**	**0.07**	**0.07**
TOTAL		***0.37***	***0.31***	***2.80***	***3.75***	***0.01***	***0.07***	***0.07***

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Sewer Main and Storm Drain Site Site Preparation (Private)	*1.34*	*1.13*	*9.84*	*10.80*	*0.03*	*1.04*	*0.46*
Sewer Main and Storm Drain Site Utility Trenching (Private) 2026	*0.39*	*0.32*	*2.87*	*3.76*	*0.01*	*0.08*	*0.08*
Sewer Main and Storm Drain Site Pipeline Construction (Private) 2026	*0.91*	*0.76*	*6.67*	*8.03*	*0.02*	*0.25*	*0.23*
Sewer Main and Storm Drain Site Utility Trenching (Private) 2027	*0.37*	*0.31*	*2.80*	*3.75*	*0.01*	*0.07*	*0.07*
Sewer Main and Storm Drain Site Pipeline Construction (Private) 2027	*0.88*	*0.74*	*6.45*	*8.02*	*0.02*	*0.23*	*0.21*
Sewer Main and Storm Drain Site Paving (Private)	*0.77*	*0.71*	*5.74*	*8.20*	*0.01*	*0.23*	*0.21*

Option 1

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Option 1 Building 1 Construction 2024 and Utilities Trenching	*3.37*	*2.82*	*24.70*	*26.90*	*0.05*	*1.14*	*1.05*
Option 1 Building 1 Construction 2024	*1.44*	*1.20*	*11.20*	*13.10*	*0.02*	*0.50*	*0.46*
Option 1 Building 1 Construction 2025	*1.35*	*1.13*	*10.40*	*13.00*	*0.02*	*0.43*	*0.40*
Option 1 Building 1 Construction 2025, Paving, and Architectural Coating	*2.45*	*9.49*	*18.73*	*24.12*	*0.04*	*0.81*	*0.75*
Option 1 Rough Grading, Utilities Trenching, and Buildings 2 and 3 Construction 2026	*6.66*	*5.59*	*48.45*	*54.30*	*0.11*	*5.60*	*3.27*
Option 1 Buildings 2 and 3 Construction 2026	*1.28*	*1.07*	*9.85*	*13.00*	*0.02*	*0.38*	*0.35*
Option 1 Buildings 2 and 3 Construction 2027	*1.23*	*1.03*	*9.39*	*12.90*	*0.02*	*0.34*	*0.31*
Option 1 Buildings 2 and 3 Construction, Paving, and Architectural Coating	*2.32*	*84.53*	*17.67*	*24.01*	*0.04*	*0.71*	*0.65*
Option 1 Buildings 2 and 3 Construction, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping	*7.53*	*88.91*	*53.97*	*64.91*	*0.13*	*5.81*	*3.46*

Option 2

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Option 2 BESS Site Construction 2024 and Utilities Trenching	*3.37*	*2.82*	*24.7*	*26.9*	*0.05*	*1.14*	*1.05*
Option 2 BESS Construction 2024	*1.44*	*1.2*	*11.2*	*13.1*	*0.02*	*0.5*	*0.46*
Option 2 BESS Construction 2025	*1.35*	*1.13*	*10.4*	*13*	*0.02*	*0.43*	*0.4*
Option 2 BESS Construction 2025 and Paving	*2.3*	*2.57*	*17.85*	*22.98*	*0.03*	*0.78*	*0.72*
Option 2 Rough Grading, Utilities Trenching, and Buildings 1 and 2 Construction 2026	*6.66*	*5.59*	*48.45*	*54.3*	*0.11*	*5.6*	*3.27*
Option 2 Buildings 1 and 2 Construction 2026	*1.28*	*1.07*	*9.85*	*13*	*0.02*	*0.38*	*0.35*
Option 2 Buildings 1 and 2 Construction 2027	*1.23*	*1.03*	*9.39*	*12.9*	*0.02*	*0.34*	*0.31*
Option 2 Buildings 1 and 2 Construction 2027, Paving, and Architectural Coating	*3*	*66.65*	*21.83*	*29.63*	*0.04*	*0.8*	*0.74*
Option 2 Buildings 1 and 2 Construction 2027, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping	*8.21*	*71.03*	*58.13*	*70.53*	*0.13*	*5.9*	*3.55*

Offsite Improvements

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Linear, Grubbing & Land Clearing	*0.46*	*0.39*	*3.39*	*3.49*	*0.01*	*0.42*	*0.21*
Linear, Grading & Excavation	*3.71*	*3.11*	*27.30*	*29.40*	*0.06*	*2.45*	*1.24*
Linear, Drainage, Utilities, & Sub-Grade	*2.99*	*2.51*	*22.90*	*23.60*	*0.05*	*1.94*	*0.95*
Linear, Paving	*1.06*	*0.89*	*7.71*	*10.80*	*0.01*	*0.34*	*0.31*

Sewer Main and Storm Drain Construction (Public)

	TOG	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Sewer Main and Storm Drain Site Site Preparation (Public)	*1.42*	*1.19*	*10.9*	*11*	*0.03*	*1.09*	*0.5*
Sewer Main and Storm Drain Site Utility Trenching (Public)	*0.41*	*0.34*	*2.96*	*3.77*	*0.01*	*0.1*	*0.09*
Sewer Main and Storm Drain Site Pipeline Construction (Public)	*0.95*	*0.79*	*7*	*8.1*	*0.02*	*0.27*	*0.25*
Sewer Main and Storm Drain Site Paving (Public)	*0.83*	*0.71*	*6.13*	*8.21*	*0.01*	*0.27*	*0.25*

Sewer Main and Storm Drain Construction (Private)

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Sewer Main and Storm Drain Site Site Preparation (Private)	*1.34*	*1.13*	*9.84*	*10.80*	*0.03*	*1.04*	*0.46*
Sewer Main and Storm Drain Site Utility Trenching (Private) 2026	*0.39*	*0.32*	*2.87*	*3.76*	*0.01*	*0.08*	*0.08*
Sewer Main and Storm Drain Site Pipeline Construction (Private) 2026	*0.91*	*0.76*	*6.67*	*8.03*	*0.02*	*0.25*	*0.23*
Sewer Main and Storm Drain Site Utility Trenching (Private) 2027	*0.37*	*0.31*	*2.80*	*3.75*	*0.01*	*0.07*	*0.07*
Sewer Main and Storm Drain Site Pipeline Construction (Private) 2027	*0.88*	*0.74*	*6.45*	*8.02*	*0.02*	*0.23*	*0.21*
Sewer Main and Storm Drain Site Paving (Private)	*0.77*	*0.71*	*5.74*	*8.20*	*0.01*	*0.23*	*0.21*

Construction LST Worksheet (Option 1)

**NOx and CO LSTs based on 82 ft receptor (surrounding businesses), PM10 and PM2.5 LSTs based on 2,180 ft receptor (residences) as employees would not be onsite 24hrs/day

	NOx	CO	PM10 Total	PM2.5 Total
Option 1 Building 1 Construction 2024 and Utilities Trenching	***25***	***27***	***1.14***	***1.05***
2.31 Acre LST	***136***	***1,034***	***276.78***	***142.63***
Exceeds LST?	***no***	***no***	***no***	***no***
Option 1 Building 1 Construction 2024	***11***	***13***	***0.50***	***0.46***
1.31 Acre LST	***101***	***726***	***269.31***	***135.69***
Exceeds LST?	***no***	***no***	***no***	***no***
Option 1 Building 1 Construction 2025 | Linear, Grubbing & Land Clearing	***14***	***16***	***0.85***	***0.61***
1.81 Acre LST	***121***	***273***	***273.03***	***139.24***
Exceeds LST?	***no***	***no***	***no***	***no***
Option 1 Building 1 Construction 2025 | Linear, Grubbing & Land Clearing | Sewer Main and Storm Drain Site Site Preparation (Public)	***25***	***27***	***1.94***	***1.11***
3.75 Acre LST	***172***	***1,408***	***287.58***	***152.14***
Exceeds LST?	***no***	***no***	***no***	***no***
Option 1 Building 1 Construction 2025 | Linear, Grading & Excavation | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public)	***48***	***54***	***3.25***	***1.98***
≥5.00 Acre LST	***203***	***1,733***	***296.98***	***160.41***
Exceeds LST?	***no***	***no***	***no***	***no***
Option 1 Building 1 Construction 2025, Paving, and Architectural Coating | Linear, Grading & Excavation | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public)	***56***	***65***	***3.63***	***2.33***
≥5.00 Acre LST	***203***	***1,733***	***296.98***	***160.41***
Exceeds LST?	***no***	***no***	***no***	***no***
Linear, Grading & Excavation | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public)	***37***	***41***	***2.82***	***1.58***
≥5.00 Acre LST	***203***	***1,733***	***296.98***	***160.41***
Exceeds LST?	***no***	***no***	***no***	***no***
Linear, Drainage, Utilities, & Sub-Grade | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public)	***33***	***35***	***2.31***	***1.29***
4.25 Acre LST	***184***	***1,538***	***291.34***	***155.45***
Exceeds LST?	***no***	***no***	***no***	***no***
Linear, Paving | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public)	***18***	***23***	***0.71***	***0.65***
1.75 Acre LST	***118***	***870***	***272.57***	***138.79***
Exceeds LST?	***no***	***no***	***no***	***no***

Linear, Paving | Sewer Main and Storm Drain Site Utility Trenching, Pipeline Construction, and Paving (Public)	24	31	0.98	0.90
2.25 Acre LST	134	1,018	276.31	142.22
Exceeds LST?	no	no	no	no
Linear, Paving | Sewer Main and Storm Drain Site Paving (Public)	14	19	0.61	0.56
1.50 Acre LST	108	788	270.70	137.02
Exceeds LST?	no	no	no	no
Linear, Paving	6	8	0.27	0.25
≤1.00 Acre LST	89	623	266.98	133.47
Exceeds LST?	no	no	no	no
Option 1 Rough Grading, Utilities Trenching, and Buildings 2 and 3 Construction 2026 | Sewer Main and Storm Drain Site Site Preparation (Private)	58	65	6.64	3.73
≥5.00 Acre LST	203	1,733	296.98	160.41
Exceeds LST?	no	no	no	no
Option 1 Rough Grading, Utilities Trenching, and Buildings 2 and 3 Construction 2026 | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Private)	58	66	5.93	3.58
≥5.00 Acre LST	203	1,733	296.98	160.41
Exceeds LST?	no	no	no	no
Option 1 Buildings 2 and 3 Construction 2026 | Sewer Main and Public Storm Drain Site Utility Trenching and Pipeline Construction (Private)	19	25	0.71	0.66
2.06 Acre LST	130	969	274.90	140.98
Exceeds LST?	no	no	no	no
Option 1 Buildings 2 and 3 Construction 2027 | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Private)	26	34	0.95	0.87
2.06 Acre LST	130	969	274.90	140.98
Exceeds LST?	no	no	no	no
Option 1 Buildings 2 and 3 Construction, Paving, and Architectural Coating | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Private)	27	36	1.01	0.93
2.06 Acre LST	130	969	274.90	140.98
Exceeds LST?	no	no	no	no
Option 1 Buildings 2 and 3 Construction, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Private)	63	77	6.11	3.74
≥5.00 Acre LST	203	1,733	296.98	160.41
Exceeds LST?	no	no	no	no

Option 1 Buildings 2 and 3 Construction, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping | Sewer Main and Storm Drain Site Utility Trenching, Pipeline Construction, and Paving (Private)	***69***	***85***	***6.34***	***3.95***
≥5.00 Acre LST	***203***	***1,733***	***296.98***	***160.41***
Exceeds LST?	***no***	***no***	***no***	***no***
Option 1 Buildings 2 and 3 Construction, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping | Sewer Main and Storm Drain Site Paving (Private)	***60***	***73***	***6.04***	***3.67***
≥5.00 Acre LST	***203***	***1,733***	***296.98***	***160.41***
Exceeds LST?	***no***	***no***	***no***	***no***

Construction LST Worksheet (Option 2)

**NOx and CO LSTs based on 82 ft receptor (surrounding businesses), PM10 and PM2.5 LSTs based on 2,180 ft receptor (residences) as employees would not be onsite 24hrs/day

	NOx	CO	PM10 Total	PM2.5 Total
Option 2 BESS Site Utility Trenching and Construction	*25*	*27*	*1.14*	*1.05*
2.31 Acre LST	*136*	*1,034*	*276.78*	*142.63*
Exceeds LST?	*no*	*no*	*no*	*no*
Option 2 BESS Construction 2024	*11*	*13*	*0.50*	*0.46*
1.31 Acre LST	*101*	*726*	*269.31*	*135.69*
Exceeds LST?	*no*	*no*	*no*	*no*
Option 2 BESS Construction 2025 | Linear, Grubbing & Land Clearing	*14*	*16*	*0.85*	*0.61*
1.81 Acre LST	*121*	*273*	*273.03*	*139.24*
Exceeds LST?	*no*	*no*	*no*	*no*
Option 2 BESS Construction 2025 | Linear, Grubbing & Land Clearing | Sewer Main and Public Storm Drain Site Preparation (Public)	*25*	*27*	*1.94*	*1.11*
3.75 Acre LST	*172*	*1,408*	*287.58*	*152.14*
Exceeds LST?	*no*	*no*	*no*	*no*
Option 2 BESS Construction 2025 | Linear, Grading & Excavation | Sewer Main and Public Storm Drain Utility Trenching and Pipeline Construction (Public)	*48*	*54*	*3.25*	*1.98*
≥5.00 Acre LST	*203*	*1,733*	*296.98*	*160.41*
Exceeds LST?	*no*	*no*	*no*	*no*
Option 2 BESS Construction 2025 and Paving | Linear, Grading & Excavation | Sewer Main and Public Storm Drain Utility Trenching and Pipeline Construction (Public)	*55*	*64*	*3.60*	*2.30*
≥5.00 Acre LST	*203*	*1,733*	*296.98*	*160.41*
Exceeds LST?	*no*	*no*	*no*	*no*
Linear, Grading & Excavation | Sewer Main and Public Storm Drain Utility Trenching and Pipeline Construction (Public)	*37*	*41*	*2.82*	*1.58*
≥5.00 Acre LST	*203*	*1,733*	*296.98*	*160.41*
Exceeds LST?	*no*	*no*	*no*	*no*
Linear, Drainage, Utilities, & Sub-Grade | Sewer Main and Public Storm Drain Utility Trenching and Pipeline Construction (Public)	*33*	*35*	*2.31*	*1.29*
4.25 Acre LST	*184*	*1,538*	*291.34*	*155.45*
Exceeds LST?	*no*	*no*	*no*	*no*
Linear, Paving | Sewer Main and Public Storm Drain Utility Trenching and Pipeline Construction (Public)	*18*	*23*	*0.71*	*0.65*
1.75 Acre LST	*118*	*870*	*272.57*	*138.79*
Exceeds LST?	*no*	*no*	*no*	*no*
Linear, Paving | Sewer Main and Public Storm Drain Utility Trenching, Pipeline Construction, and Paving (Public)	*24*	*31*	*0.98*	*0.90*
2.25 Acre LST	*134*	*1,018*	*276.31*	*142.22*
Exceeds LST?	*no*	*no*	*no*	*no*

Linear, Paving | Sewer Main and Public Storm Drain Paving (Public)	*14*	*19*	*0.61*	*0.56*
1.50 Acre LST	*108*	*788*	*270.70*	*137.02*
Exceeds LST?	*no*	*no*	*no*	*no*
Linear, Paving	*6*	*8*	*0.27*	*0.25*
≤1.00 Acre LST	*89*	*623*	*266.98*	*133.47*
Exceeds LST?	*no*	*no*	*no*	*no*
Option 2 Rough Grading, Utilities Trenching, and Buildings 1 and 2 Construction 2026 | Sewer Main and Public Storm Drain Site Preparation (Private)	*58*	*65*	*6.64*	*3.73*
≥5.00 Acre LST	*203*	*1,733*	*296.98*	*160.41*
Exceeds LST?	*no*	*no*	*no*	*no*
Option 2 Rough Grading, Utilities Trenching, and Buildings 1 and 2 Construction 2026 | Sewer Main and Public Storm Drain Utility Trenching and Pipeline Construction (Private)	*58*	*66*	*5.93*	*3.58*
≥5.00 Acre LST	*203*	*1,733*	*296.98*	*160.41*
Exceeds LST?	*no*	*no*	*no*	*no*
Option 2 Buildings 1 and 2 Construction 2026 | Sewer Main and Public Storm Drain Utility Trenching and Pipeline Construction (Private)	*19*	*25*	*0.71*	*0.66*
2.06 Acre LST	*130*	*969*	*274.90*	*140.98*
Exceeds LST?	*no*	*no*	*no*	*no*
Option 2 Buildings 1 and 2 Construction 2027 | Sewer Main and Public Storm Drain Utility Trenching and Pipeline Construction (Private)	*19*	*25*	*0.64*	*0.59*
2.06 Acre LST	*130*	*969*	*274.90*	*140.98*
Exceeds LST?	*no*	*no*	*no*	*no*
Option 2 Buildings 1 and 2 Construction 2027, Paving, and Architectural Coating | Sewer Main and Public Storm Drain Utility Trenching and Pipeline Construction (Private)	*31*	*41*	*1.10*	*1.02*
2.06 Acre LST	*130*	*969*	*274.90*	*140.98*
Exceeds LST?	*no*	*no*	*no*	*no*
Option 2 Buildings 1 and 2 Construction 2027, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping | Sewer Main and Public Storm Drain Utility Trenching and Pipeline Construction (Private)	*67*	*82*	*6.20*	*3.83*
≥5.00 Acre LST	*203*	*1,733*	*296.98*	*160.41*
Exceeds LST?	*no*	*no*	*no*	*no*
Option 2 Buildings 1 and 2 Construction 2027, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping | Sewer Main and Storm Drain Utility Trenching, Pipeline Construction, and Paving (Private)	*73*	*91*	*6.43*	*4.04*
≥5.00 Acre LST	*203*	*1,733*	*296.98*	*160.41*
Exceeds LST?	*no*	*no*	*no*	*no*
Option 2 Buildings 1 and 2 Construction 2027, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping | Sewer Main and Storm Drain Paving (Private)	*64*	*79*	*6.13*	*3.76*
≥5.00 Acre LST	*203*	*1,733*	*296.98*	*160.41*
Exceeds LST?	*no*	*no*	*no*	*no*

Localized Operation Emissions Worksheet*

*CalEEMod, Version 2022.1 and EMFAC2021, Version 1.0.2

Option 1

Summer

	NOx	CO	PM10 Total	PM2.5 Total
Area	0.37	43.40	0.06	0.08
Off-Road Equipment	37.97	66.42	1.55	1.42
Onsite Truck Travel	3.73	1.30	0.97	0.30
Truck Idling	8.34	10.57	0.00	0.00
Transport Refrigeration Unit	18.07	1.77	0.21	0.20
Total	**68.48**	**123.45**	**2.79**	**2.00**

Winter

	NOx	CO	PM10 Total	PM2.5 Total
Area	0.00	0.20	0.00	0.00
Off-Road Equipment	0.00	0.00	0.00	0.00
Onsite Truck Travel	3.73	1.30	0.97	0.30
Truck Idling	8.34	10.57	0.00	0.00
Transport Refrigeration Unit	18.07	1.77	0.21	0.20
Total	**30.14**	**13.83**	**1.19**	**0.50**

Max Daily

	NOx	CO	PM10 Total	PM2.5 Total
Area	0	43	0.06	0.08
Off-Road Equipment	38	66	1.55	1.42
Onsite Truck Travel	4	1	0.97	0.30
Truck Idling	8	11	0.00	0.00
Transport Refrigeration Unit	18	2	0.21	0.20
Total	**68**	**123**	**2.79**	**2.00**
5-Acre-LST	**203**	**1733**	**70.90**	**38.42**
Exceeds Thresholds?	No	No	No	No

Option 2

Summer

	NOx	CO	PM10 Total	PM2.5 Total
Area	0.26	30.60	0.04	0.05
Off-Road Equipment	26.61	46.52	1.08	1.00
Onsite Truck Travel	2.81	0.98	0.41	0.13
Truck Idling	6.29	7.97	0.00	0.00
Transport Refrigeration Unit	19.43	1.90	0.23	0.21
Total	**55.40**	**87.97**	**1.76**	**1.39**

Winter

	NOx	CO	PM10 Total	PM2.5 Total
Area	0.00	0.00	0.00	0.00
Off-Road Equipment	26.61	46.52	1.08	1.00
Onsite Truck Travel	2.81	0.98	0.41	0.13
Truck Idling	6.29	7.97	0.00	0.00
Transport Refrigeration Unit	19.43	1.90	0.23	0.21
Total	**55.14**	**57.37**	**1.72**	**1.34**

Max Daily

	NOx	CO	PM10 Total	PM2.5 Total
Area	0	31	0.04	0.05
Off-Road Equipment	27	47	1.08	1.00
Onsite Truck Travel	3	1	0.41	0.13
Truck Idling	6	8	0.00	0.00
Transport Refrigeration Unit	19	2	0.23	0.21
Total	**55**	**88**	**1.76**	**1.39**
5-Acre-LST	**203**	**1733**	**70.90**	**38.42**
Exceeds Thresholds?	No	No	No	No

Regional Operation Emissions Worksheet

[1] CalEEMod, Version 2022.1

Proposed Project (Option 1)

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Off-Road	4.31	37.97	66.42	0.09	1.55	1.42
Transport Refrigeration Units	20.64	18.16	1.77	0.00	0.21	0.20
Mobile (Truck)	1.00	80.00	28.70	0.66	21.60	6.60
Mobile (Passenger)	6.74	4.37	83.80	0.19	20.30	5.21
Area	31.20	0.37	43.40	< 0.005	0.06	0.08
Energy	0.32	5.77	4.84	0.03	0.44	0.44
Total	**64.22**	**146.64**	**228.94**	**0.97**	**44.16**	**13.95**

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Off-Road	4.31	37.97	66.42	0.09	1.55	1.42
Transport Refrigeration Units	20.64	18.16	1.77	0.00	0.21	0.20
Mobile (Truck)	0.96	83.10	28.90	0.66	21.60	6.60
Mobile (Passenger)	6.71	4.90	75.00	0.18	20.30	5.21
Area	24.10	0.00	0.00	0.00	0.00	0.00
Energy	0.32	5.77	4.84	0.03	0.44	0.44
Total	**57.05**	**149.90**	**176.94**	**0.96**	**44.10**	**13.87**

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Off-Road	4	38	66	0	2	1
Transport Refrigeration Units	21	18	2	0	0	0
Mobile (Truck)	1	83	29	1	22	7
Mobile (Passenger)	7	5	84	0	20	5
Area	31	0	43	0	0	0
Energy	0	6	5	0	0	0
Total	**64**	**150**	**229**	**1**	**44**	**14**
Regional Thresholds (lb/day)	**55**	**55**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	Yes	Yes	No	No	No	No

Proposed Project (Option 2)

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Off-Road	3.02	26.61	46.52	0.06	1.08	1.00
Transport Refrigeration Units	22.09	19.43	1.90	0.00	0.23	0.21
Mobile (Truck)	0.75	60.30	21.70	0.50	9.12	2.80
Mobile (Passenger)	4.27	2.77	53.00	0.12	5.01	0.92
Area	22.10	0.26	30.60	< 0.005	0.04	0.05
Energy	0.23	4.25	3.57	0.03	0.32	0.32
Total	**52.46**	**113.61**	**157.29**	**0.72**	**15.80**	**5.30**

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Off-Road	3.02	26.61	46.52	0.06	1.08	1.00
Transport Refrigeration Units	22.09	19.43	1.90	0.00	0.23	0.21
Mobile (Truck)	0.72	62.70	21.80	0.50	9.12	2.80
Mobile (Passenger)	4.25	3.10	47.50	0.11	5.01	0.92
Area	17.00	0.00	0.00	0.00	0.00	0.00
Energy	0.23	4.25	3.57	0.03	0.32	0.32
Total	**47.31**	**116.08**	**121.29**	**0.71**	**15.76**	**5.25**

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Off-Road	3	27	47	0	1	1
Transport Refrigeration Units	22	19	2	0	0	0
Mobile (Truck)	1	63	22	1	9	3
Mobile (Passenger)	4	3	53	0	5	1
Area	22	0	31	0	0	0
Energy	0	4	4	0	0	0
Total	**52**	**116**	**157**	**1**	**16**	**5**
Regional Thresholds (lb/day)	**55**	**55**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	No	Yes	No	No	No	No

Mitigated Regional Operation Emissions Worksheet

[1] CalEEMod, Version 2022.1

Proposed Project (Option 1)

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
Transport Refrigeration Units	20.64	18.16	1.77	0.00	0.21	0.20
Mobile (Truck)	1.00	80.00	28.70	0.66	21.60	6.60
Mobile (Passenger)	6.74	4.37	83.80	0.19	20.30	5.21
Area	28.60	0.37	43.40	< 0.005	0.06	0.08
Energy	0.00	0.00	0.00	0.00	0.00	0.00
Total	**56.98**	**102.90**	**157.67**	**0.85**	**42.17**	**12.09**

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
Transport Refrigeration Units	20.64	18.16	1.77	0.00	0.21	0.20
Mobile (Truck)	0.96	83.10	28.90	0.66	21.60	6.60
Mobile (Passenger)	6.71	4.90	75.00	0.18	20.30	5.21
Area	21.50	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00
Total	**49.81**	**106.16**	**105.67**	**0.84**	**42.11**	**12.01**

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Off-Road	0	0	0	0	0	0
Transport Refrigeration Units	21	18	2	0	0	0
Mobile (Truck)	1	83	29	1	22	7
Mobile (Passenger)	7	5	84	0	20	5
Area	29	0	43	0	0	0
Energy	0	0	0	0	0	0
Total	**57**	**106**	**158**	**1**	**42**	**12**
Regional Thresholds (lb/day)	**55**	**55**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	Yes	Yes	No	No	No	No

Proposed Project (Option 2)

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
Transport Refrigeration Units	22.09	19.43	1.90	0.00	0.23	0.21
Mobile (Truck)	0.75	60.30	21.70	0.50	9.12	2.80
Mobile (Passenger)	4.27	2.77	53.00	0.12	5.01	0.92
Area	22.10	0.26	30.60	< 0.005	0.04	0.05
Energy	0.00	0.00	0.00	0.00	0.00	0.00
Total	**49.21**	**82.76**	**107.20**	**0.62**	**14.40**	**3.98**

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
Transport Refrigeration Units	22.09	19.43	1.90	0.00	0.23	0.21
Mobile (Truck)	0.72	62.70	21.80	0.50	9.12	2.80
Mobile (Passenger)	4.25	3.10	47.50	0.11	5.01	0.92
Area	17.00	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00
Total	**44.06**	**85.23**	**71.20**	**0.61**	**14.36**	**3.93**

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Off-Road	0	0	0	0	0	0
Transport Refrigeration Units	22	19	2	0	0	0
Mobile (Truck)	1	63	22	1	9	3
Mobile (Passenger)	4	3	53	0	5	1
Area	22	0	31	0	0	0
Energy	0	0	0	0	0	0
Total	**49**	**85**	**107**	**1**	**14**	**4**
Regional Thresholds (lb/day)	**55**	**55**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	No	Yes	No	No	No	No

GHG Emissions Inventory

Proposed Project Construction [1]

	Option 1 $MTCO_2e$		Option 2 $MTCO_2e$
2024	792	2024	615
2025	827	2025	598
2026	583	2026	475
2027	1,129	2027	890
Total Construction	**3,331**	**Total Construction**	**2,578**
30-Year Amortization[2]	**111**	**30-Year Amortization[2]**	**86**

Offsite Improvements

	$MTCO_2e$
2025	697
2026	1
Total Construction	**698**
30-Year Amortization[2]	**23**

Sewer and Storm Drain Construction (Public)

	$MTCO_2e$
2025	280
Total Construction	**280**
30-Year Amortization[2]	**9**

Sewer and Storm Drain Construction (Private)

	$MTCO_2e$
2026	89
2027	190
Total Construction	**279**
30-Year Amortization[2]	**9**

Totals

	Option 1 $MTCO_2e$	%		Option 2 $MTCO_2e$	%
Year 2024	792	17%	Year 2024	615	16%
Year 2025	1,804	39%	Year 2025	1,575	41%
Year 2026	673	15%	Year 2026	565	15%
Year 2027	1,319	29%	Year 2027	1,080	28%
Total Construction	**4,588**	100%	**Total Construction**	**3,835**	100%
Total 30-Year Amortization[2]	**153**		**Total 30-Year Amortization[2]**	**128**	

Notes

1 CalEEMod, Version 2022.1

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.

Operations[1]

	Option 1		Option 2	
	$MTCO_2e$/Year[2] Operations	%	$MTCO_2e$/Year[2] Operations	%
Mobile (Truck)	12,649	54%	9,544	53%
Mobile (Passenger)	3,080	13%	1,949	11%
Area	20	0%	14	0%
Energy	3,410	15%	2,786	15%
Water	105	0%	105	1%
Solid Waste	81	0%	57	0%
Refrigerants	1,710	7%	1,710	9%
TRUs	597	3%	638	4%
Off-Road Equipment	1,650	7%	1,156	6%
30-Year Construction Amortization	153	1%	128	1%
	23,455	100%	**18,087**	100%
South Coast AQMD Bright-Line Screening Threshold	**3,000**		**3,000**	
Exceed Threshold?	**Yes**		**Yes**	

Notes

1 CalEEMod, Version 2022.1

2 $MTCO_2e$=metric tons of carbon dioxide equivalent.

Operations - Mitigated[1]

	Option 1		Option 2	
	$MTCO_2e$/Year[2] Operations	%	$MTCO_2e$/Year[2] Operations	%
Mobile (Truck)	12,649	58%	9,544	56%
Mobile (Passenger)	3,080	14%	1,949	12%
Area	20	0%	14	0%
Energy	3,410	16%	2,786	16%
Water	105	0%	105	1%
Solid Waste	81	0%	57	0%
Refrigerants	1,710	8%	1,710	10%
TRUs	597	3%	638	4%
Off-Road Equipment[3]	0	0%	0	0%
30-Year Construction Amortization	153	1%	128	1%
	21,805	100%	**16,932**	100%
South Coast AQMD Bright-Line Screening Threshold	**3,000**		**3,000**	
Exceed Threshold?	**Yes**		**Yes**	

Notes

1 CalEEMod, Version 2022.1

2 $MTCO_2e$=metric tons of carbon dioxide equivalent.

3 MM GHG-3 would require electric off-road equipment to be used onsite, which would not generate GHG emissions

Assumptions Worksheet

CalEEMod Inputs- Irwindale Gateway Project (Option 1), Construction

Name:	Irwindale Gateway Project (Option 1), Construction
Project Number:	IRW-04
Project Location:	13620 Live Oak Ln, Irwindale, CA 91706
County/Air Basin:	Los Angeles - South Coast AQMD
Climate Zone:	9
Land Use Setting:	Urban
Operational Year:	2028
Utility Company:	Southern California Edison
Air Basin:	South Coast Air Basin
Air District:	South Coast AQMD
SRA:	9 - East San Gabriel Valley

Project Site Acreage 68.10

	Building 1	Building 2	Building 3	Subtotal
Disturbed Site Acreage	5.12	31.89	15.89	52.90

Project Components				
Construction	***Number of Stories***	***SQFT***	***Building Footprint***	***Acres***
Option 1				
Building 1[1]	1	74,110	74,110	1.70
Building 2[1]	1	690,776	675,776	15.51
Building 3[1]	1	232,910	232,910	5.35
Total Building Area		**997,796**		**22.56**
Surface Work	**Stalls**	**SQFT per Stall**	**Total SQFT**	**Acres**
Automobile Parking Stalls (Building 1)[2]	62	400	24,800	0.57
Automobile Parking Stalls (Buildings 2 and 3)[2]	840	400	336,000	7.71
Truck Parking Stalls (Building 1)	26	1,300	33,800	0.78
Truck Parking Stalls (Buildings 2 and 3)	320	1,300	416,000	9.55
Landscaping			310,164	7.12
Hardscape			200,764	4.61
			TOTAL ACREAGE	**52.90**

Notes

1 Includes building area for warehousing and office uses

2 Based on preliminary site plan for project

CalEEMod Land Use Inputs - Option 1

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Industrial	Unrefriferated Warehouse - No Rail	997.796	1000 sqft	22.56	997,796
Parking*	Parking Lot	810.600	1000 sqft	18.61	810,600
Parking*	Other Non-asphalt Surfaces (Landscape)	310.164	1000 sqft	7.12	310,164
Parking*	Other Non-asphalt Surfaces (Hardscape)	200.764	1000 sqft	4.61	200,764
				52.90	

Architectural Coating

	Percent Painted
Interior Painted:	100%
Exterior Painted:	100%

Rule 1113

Interior Paint VOC content:	50	grams per liter
Exterior Paing VOC content:	50	grams per liter

Phase 1

Structures	Land Use Square Feet	CalEEMod Factor[2]	Total Paintable Surface Area	Paintable Interior Area[1]	Paintable Exterior Area[1]
Non-Residential Structures					
Building 1	74,110	2.0	148,220	111,165	37,055
Buildings 2 and 3	923,686	2.0	1,847,372	1,385,529	461,843
			1,995,592	**1,496,694**	**498,898**
Parking					
Parking (Building 1)	58,600	6%	3,516	-	3,516
Parking (Buildings 2 and 3)	752,000	6%	45,120	-	45,120
			50,124		50,124

[1]CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.

[2] The program assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage defined by the user.

[3] Assumes that all parking and non-parking asphalt will be striped. CalEEMod methodology assumes 6% of surface area is striped.

Construction Mitigation

SCAQMD Rule 403

Water Exposed Area	Frequency:	2	per day
	PM10:	61	% Reduction
	PM25:	61	% Reduction
Unpaved Roads	Vehicle Speed:	25	mph

SCAQMD Rule 1186

	Clean Paved Road	9	% PM Reduction

Construction Activities and Schedule Assumption

* based on information provided by the Applicant

		Construction Schedule		
Construction Activities	**Phase Type**	**Start Date**	**End Date**	**CalEEMod Duration (Workday)**
Option 1				
Option 1 Building 1 Utility Trenching		7/15/2024	8/13/2024	22
Option 1 Building 1 Construction		7/15/2024	6/15/2025	240
Option 1 Building 1 Paving		3/30/2025	6/15/2025	55
Option 1 Building 1 Architectural Coating		3/30/2025	6/15/2025	55
Option 1 Rough Grading		9/15/2026	10/15/2026	23
Option 1 Buildings 2 and 3 Utility Trenching		9/15/2026	10/15/2026	23
Option 1 Buildings 2 and 3 Construction		9/15/2026	8/15/2027	239
Option 1 Buildings 2 and 3 Paving		5/31/2027	8/15/2027	55
Option 1 Buildings 2 and 3 Architectural Coating		5/31/2027	8/15/2027	55
Option 1 Fine Grading		7/15/2027	8/15/2027	22
Option 1 Finishing/Landscaping		7/15/2027	8/15/2027	22

Overlapping Schedule

		Construction Schedule		
Construction Activities	**Phase Type**	**Start Date**	**End Date**	**CalEEMod Duration (Workday)**
Option 1				
Option 1 Building 1 Construction 2024 and Utilities Trenching		7/15/2024	8/13/2024	22
Option 1 Building 1 Construction 2024		8/14/2024	12/31/2024	100
Option 1 Building 1 Construction 2025		1/1/2025	3/29/2025	63
Option 1 Building 1 Construction 2025, Paving, and Architectural Coating		3/30/2025	6/15/2025	55
Option 1 Rough Grading, Utilities Trenching, and Buildings 2 and 3 Construction 2026		9/15/2026	10/15/2026	23
Option 1 Buildings 2 and 3 Construction 2026		10/16/2026	12/31/2026	55
Option 1 Buildings 2 and 3 Construction 2027		1/1/2027	5/30/2027	106
Option 1 Buildings 2 and 3 Construction, Paving, and Architectural Coating		5/31/2027	7/14/2027	33
Option 1 Buildings 2 and 3 Construction, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping		7/15/2027	8/15/2027	22

CalEEMod Construction Off-Road Equipment Inputs (Option 1)

**Based on CalEEMod defaults, assumed equipment would not be shared for most conservative results*

General Construction Hours: 8 hours btwn 7:00 AM to 4:00 PM (with 1 hr break), Mon-Fri

Water Truck Vendor Trip Calculation

Amount of Water (gal/acre/day)[1]	Water Truck Capacity (gallons)[2]
10,000	4,000

Notes:

[1] *Based on data provided in Guidance for Application for Dust Control Permit*

Maricopa County Air Quality Department. 2005, June. Guidance for Application of Dust Control Permit. https://www.epa.gov/sites/default/files/2019-04/documents/mr_guidanceforapplicationfordustcontrolpermit.pdf)

[2] *Based on standard water truck capacity:*
McLellan Industries. 2022, January (access). Water Trucks. https://www.mclellanindustries.com/trucks/water-

[3] *Assumes that dozers, tractors/loaders/backhoes, and graders can disturb 0.50 acres per day and scrapers can disturb 1 acre per day.*

Construction Equipment Details						
Equipment	**model**	**# of Equipment**	**hr/day**	**hp**	**load factor***	**total trips**
Option 1 Building 1 Utility Trenching						
Cranes		1	8	367	0.29	
Crawler Tractors		1	8	87	0.43	
Excavators		2	8	36	0.38	
Off-Highway Trucks		1	2	376	0.38	
Rubber Tired Loaders		1	8	150	0.36	
Worker Trips						15
Vendor Trips						0
Hauling Trips						0
Water Trucks (Added To Vendor Trips)			Acres Disturbed:	1		6
Option 1 Building 1 Construction						
Cranes		1	7	367		
Forklifts		3	8	82		
Generator Sets		1	8	14		
Tractors/Loaders/Backhoes		3	7	84		
Welders		1	8	46		
Worker Trips						419
Vendor Trips						164
Hauling Trips						0
Option 1 Building 1 Paving						
Pavers		2	8	81		
Paving Equipment		2	8	89		
Rollers		2	8	36		
Worker Trips						15
Vendor Trips						0
Hauling Trips						0
Option 1 Building 1 Architectural Coating						
Air Compressor		1	6	37		
Worker Trips						168
Vendor Trips						0
Hauling Trips						0
Option 1 Rough Grading						
Excavators		2	8	36		
Graders		1	8	148		
Rubber Tired Dozers		1	8	367		
Scrapers		2	8	423		
Tractors/Loaders/Backhoes		2	8	84		
Worker Trips						20
Vendor Trips						0
Hauling Trips						0
Water Trucks (Added To Vendor Trips)			Acres Disturbed:	4		20

Option 1 Buildings 2 and 3 Utility Trenching							
	Cranes		1	8	231		
	Crawler Tractors		1	8	140		
	Excavators		2	8	195		
	Off-Highway Trucks		1	2	475		
	Rubber Tired Loaders		1	8	130		
	Worker Trips						15
	Vendor Trips						0
	Hauling Trips						0
	Water Trucks (Added To Vendor Trips)				Acres Disturbed:	1	6
Option 1 Buildings 2 and 3 Construction							
	Cranes		1	7	367		
	Forklifts		3	8	82		
	Generator Sets		1	8	14		
	Tractors/Loaders/Backhoes		3	7	84		
	Welders		1	8	46		
	Worker Trips						419
	Vendor Trips						164
	Hauling Trips						0
Option 1 Buildings 2 and 3 Paving							
	Pavers		2	8	81		
	Paving Equipment		2	8	89		
	Rollers		2	8	36		
	Worker Trips						15
	Vendor Trips						0
	Hauling Trips						0
Option 1 Buildings 2 and 3 Architectural Coating							
	Air Compressor		1	6	37		
	Worker Trips						168
	Vendor Trips						0
	Hauling Trips						0
Option 1 Fine Grading							
	Excavators		2	8	36		
	Graders		1	8	148		
	Rubber Tired Dozers		1	8	367		
	Scrapers		2	8	423		
	Tractors/Loaders/Backhoes		2	8	84		
	Worker Trips						20
	Vendor Trips						0
	Hauling Trips						0
	Water Trucks (Added To Vendor Trips)				Acres Disturbed:	4	20
Option 1 Finishing/Landscaping							
	Cranes		1	8	231		
	Crawler Tractors		1	8	140		
	Excavators		2	8	195		
	Off-Highway Trucks		1	2	475		
	Rubber Tired Loaders		1	8	130		
	Worker Trips						15
	Vendor Trips						0
	Hauling Trips						0

CalEEMod Inputs- Irwindale Gateway Project (Option 2), Construction

Name:	Irwindale Gateway Project (Option 2), Construction
Project Number:	IRW-04
Project Location:	13620 Live Oak Ln, Irwindale, CA 91706
County/Air Basin:	Los Angeles - South Coast AQMD
Climate Zone:	9
Land Use Setting:	Urban
Operational Year:	2028
Utility Company:	Southern California Edison
Air Basin:	South Coast Air Basin
Air District:	South Coast AQMD
SRA:	9 - East San Gabriel Valley

Project Site Acreage 68.10

	Building 1	Buiding 2	BESS Facility	Subtotal
Disturbed Site Acreage	5.12	31.84	15.94	52.90

Project Components				
Construction	***Number of Stories***	***SQFT***	***Building Footprint***	***Acres***
Option 2				
Building 1[1]	1	77,110	74,110	1.70
Building 2[1]	1	626,960	611,960	14.05
Total Building Area		**704,070**		**15.75**
Surface Work	**Stalls**	**SQFT per Stall**	**Total SQFT**	**Acres**
Automobile Parking Stalls	617	400	246,800	5.67
Truck Parking Stalls	257	1,300	334,100	7.67
BESS Facility			694,346	15.94
Landscaping			180,333	4.14
Hardscape			162,675	3.73
			TOTAL ACREAGE	**52.90**

Notes

1 Includes building area for warehousing and office uses

CalEEMod Land Use Inputs - Option 2

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Industrial	Warehouse	704.070	1000 sqft	15.75	704,070
Parking*	Parking Lot	580.900	1000 sqft	13.34	580,900
Parking*	Other Non-asphalt Surfaces (Landscape)	180.333	1000 sqft	4.14	180,333
Parking*	Other Non-asphalt Surfaces (Hardscape)	857.021	1000 sqft	19.67	857,021
				52.90	

Architectural Coating

	Percent Painted
Interior Painted:	100%
Exterior Painted:	100%

Rule 1113

Interior Paint VOC content:	50	grams per liter
Exterior Paing VOC content:	50	grams per liter

Phase 1

Structures	Land Use Square Feet	CalEEMod Factor[2]	Total Paintable Surface Area	Paintable Interior Area[1]	Paintable Exterior Area[1]
Non-Residential Structures					
Building 1	77,110	2.0	154,220	115,665	38,555
Building 2	626,960	2.0	1,253,920	940,440	313,480
			1,408,140	**1,056,105**	**352,035**
Parking					
Parking	580,900	6%	34,854	-	34,854
			49,662		49,662

[1]CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.

[2] The program assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage defined by the user.

[3] Assumes that all parking and non-parking asphalt will be striped. CalEEMod methodology assumes 6% of surface area is striped.

Construction Mitigation

SCAQMD Rule 403

Replace Ground Cover	PM10:	5	% Reduction
	PM25:	5	% Reduction
Water Exposed Area	Frequency:	2	per day
	PM10:	61	% Reduction
	PM25:	61	% Reduction
Unpaved Roads	Vehicle Speed:	25	mph

SCAQMD Rule 1186

	Clean Paved Road	9	% PM Reduction

Construction Activities and Schedule Assumption

* based on information provided by the Applicant

		Construction Schedule		
Construction Activities	**Phase Type**	**Start Date**	**End Date**	**CalEEMod Duration (Workday)**
Option 2				
Option 2 BESS Site Utility Trenching		7/15/2024	8/13/2024	22
Option 2 BESS Construction		7/15/2024	6/15/2025	240
Option 2 BESS Site Paving		3/31/2025	6/15/2025	55
Option 2 Rough Grading		9/15/2026	10/15/2026	23
Option 2 Buildings 1 and 2 Utility Trenching		9/15/2026	10/15/2026	23
Option 2 Buildings 1 and 2 Construction		9/15/2026	8/15/2027	239
Option 2 Buildings 1 and 2 Paving		5/31/2027	8/15/2027	55
Option 2 Buildings 1 and 2 Architectural Coating		5/31/2027	8/15/2027	55
Option 2 Fine Grading		7/15/2027	8/15/2027	22
Option 2 Finishing/Landscaping		7/15/2027	8/15/2027	22

Overlapping Schedule

		Construction Schedule		
Construction Activities	**Phase Type**	**Start Date**	**End Date**	**CalEEMod Duration (Workday)**
Option 2				
Option 2 BESS Construction 2024 and Utilities Trenching		7/15/2024	8/13/2024	22
Option 2 Building 1 Construction 2024		8/14/2024	12/31/2024	100
Option 2 Building 1 Construction 2025		1/1/2025	3/29/2025	63
Option 2 Building 1 Construction 2025 and Paving		3/30/2025	6/15/2025	55
Option 2 Rough Grading, Utilities Trenching, and Buildings 1 and 2 Construction 2026		9/15/2026	10/15/2026	23
Option 2 Buildings 1 and 2 Construction 2026		10/16/2026	12/31/2026	55
Option 2 Buildings 1 and 2 Construction 2027		1/1/2027	5/30/2027	106
Option 2 Buildings 1 and 2 Construction 2027, Paving, and Architectural Coating		5/31/2027	7/14/2027	33
Option 2 Buildings 1 and 2 Construction, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping		7/15/2027	8/15/2027	22

CalEEMod Construction Off-Road Equipment Inputs (Option 2)

**Based on CalEEMod defaults, assumed equipment would not be shared for most conservative results*

General Construction Hours: 8 hours btwn 7:00 AM to 4:00 PM (with 1 hr break), Mon-Fri

Water Truck Vendor Trip Calculation

Amount of Water (gal/acre/day)[1]	Water Truck Capacity (gallons)[2]
10,000	4,000

Notes:

[1] *Based on data provided in Guidance for Application for Dust Control Permit https://www.epa.gov/sites/default/files/2019-04/documents/mr_guidanceforapplicationfordustcontrolpermit.pdf)*

[2] *Based on standard water truck capacity: McLellan Industries. 2022, January (access). Water Trucks. https://www.mclellanindustries.com/trucks/water-*

[3] *Assumes that dozers, tractors/loaders/backhoes, and graders can disturb 0.50 acres per day and scrapers can disturb 1 acre per day.*

Construction Equipment Details							
Equipment	**model**	**# of Equipment**	**hr/day**	**hp**	**load factor***	**total trips**
Option 2 BESS Site Utility Trenching						
Cranes		1	8	367	0.29	
Crawler Tractors		1	8	87	0.43	
Excavators		2	8	36	0.38	
Off-Highway Trucks		1	2	376	0.38	
Rubber Tired Loaders		1	8	150	0.36	
Worker Trips						15
Vendor Trips						0
Hauling Trips						0
Water Trucks (Added To Vendor Trips)			Acres Disturbed:	1		6
Option 2 BESS Site Construction						
Cranes		1	7	367		
Forklifts		3	8	82		
Generator Sets		1	8	14		
Tractors/Loaders/Backhoes		3	7	84		
Welders		1	8	46		
Worker Trips						296
Vendor Trips						115
Hauling Trips						0
Option 2 BESS Site Paving						
Pavers		2	8	81		
Paving Equipment		2	8	89		
Rollers		2	8	36		
Worker Trips						15
Vendor Trips						0
Hauling Trips						0
Option 2 Rough Grading						
Excavators		2	8	36		
Graders		1	8	148		
Rubber Tired Dozers		1	8	367		
Scrapers		2	8	423		
Tractors/Loaders/Backhoes		2	8	84		
Worker Trips						20
Vendor Trips						0
Hauling Trips						0
Water Trucks (Added To Vendor Trips)			Acres Disturbed:	4		20
Option 2 Buildings 1 and 2 Utility Trenching						
Cranes		1	8	231		
Crawler Tractors		1	8	140		
Excavators		2	8	195		
Off-Highway Trucks		1	2	475		
Rubber Tired Loaders		1	8	130		
Worker Trips						15
Vendor Trips						0
Hauling Trips						0
Water Trucks (Added To Vendor Trips)			Acres Disturbed:	1		6

Option 2 Buildings 1 and 2 Construction							
	Cranes		1	7	367		
	Forklifts		3	8	82		
	Generator Sets		1	8	14		
	Tractors/Loaders/Backhoes		3	7	84		
	Welders		1	8	46		
	Worker Trips						296
	Vendor Trips						115
	Hauling Trips						0
Option 2 Buildings 1 and 2 Paving							
	Pavers		2	8	81		
	Paving Equipment		2	8	89		
	Rollers		2	8	36		
	Worker Trips						15
	Vendor Trips						0
	Hauling Trips						0
Option 2 Buildings 1 and 2 Architectural Coating							
	Air Compressor		1	6	37		
	Worker Trips						118
	Vendor Trips						0
	Hauling Trips						0
Option 2 Fine Grading							
	Excavators		2	8	36		
	Graders		1	8	148		
	Rubber Tired Dozers		1	8	367		
	Scrapers		2	8	423		
	Tractors/Loaders/Backhoes		2	8	84		
	Worker Trips						20
	Vendor Trips						0
	Hauling Trips						0
	Water Trucks (Added To Vendor Trips)			Acres Disturbed:	4		20
Option 2 Finishing/Landscaping							
	Cranes		1	8	367		
	Crawler Tractors		1	8	87		
	Excavators		2	8	36		
	Off-Highway Trucks		1	2	376		
	Rubber Tired Loaders		1	8	150		
	Worker Trips						15
	Vendor Trips						0
	Hauling Trips						0

CalEEMod Inputs- Irwindale Gateway Project (Street), Construction

Name:	Irwindale Gateway Project (Offsite Improvements), Construction
Project Number:	IRW-04
Project Location:	13620 Live Oak Ln, Irwindale, CA 91706
County/Air Basin:	Los Angeles - South Coast AQMD
Climate Zone:	9
Land Use Setting:	Urban
Operational Year:	2028
Utility Company:	Southern California Edison
Air Basin:	South Coast Air Basin
Air District:	South Coast AQMD
SRA:	9 - East San Gabriel Valley

Project Site Acreage	68.10
Disturbed Site Acreage	4.11

Project Components		
Construction	***Lineal Feet***	***Miles***
Northern Section	300	0.06
Southern Section	1,600	0.30
Total Building Area	**1,900**	**0.36**
Surface Work	**Total SQFT**	**Acres**
Asphalt Surfaces	179,032	4.11

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage
Linear	Road Construction	0.360	Miles	4.11
				4.11

Construction Mitigation

SCAQMD Rule 403

Replace Ground Cover	PM10:	5	% Reduction
	PM25:	5	% Reduction
Water Exposed Area	Frequency:	2	per day
	PM10:	61	% Reduction
	PM25:	61	% Reduction
Unpaved Roads	Vehicle Speed:	25	mph

SCAQMD Rule 1186

	Clean Paved Road	9	% PM Reduction

Ca **Construction Activities and Schedule Assumption**

* based on information provided by the Applicant

		Construction Schedule		
Construction Activities	**Phase Type**	**Start Date**	**End Date**	**CalEEMod Duration (Workday)**
Offsite Improvement				
Linear, Grubbing & Land Clearing		1/1/2025	2/6/2025	27
Linear, Grading & Excavation		2/7/2025	8/8/2025	131
Linear, Drainage, Utilities, & Sub-Grade		8/9/2025	11/8/2025	65
Linear, Paving		11/9/2025	1/2/2026	40
			Total Construction Days:	**263**

CalEEMod Inputs- Irwindale Gateway Project (Street), Construction

**Based on CalEEMod defaults, assumed equipment would not be shared for most conservative results*

General Construction Hours: 8 hours btwn 7:00 AM to 4:00 PM (with 1 hr break), Mon-Fri

Water Truck Vendor Trip Calculation

Amount of Water (gal/acre/day)[1]	Water Truck Capacity (gallons)[2]
10,000	4,000

Notes:

[1] *Based on data provided in Guidance for Application for Dust Control Permit https://www.epa.gov/sites/default/files/2019-04/documents/mr_guidanceforapplicationfordustcontrolpermit.pdf)*

[2] *Based on standard water truck capacity: McLellan Industries. 2022, January (access). Water Trucks. https://www.mclellanindustries.com/trucks/water-*

[3] *Assumes that dozers, tractors/loaders/backhoes, and graders can disturb 0.50 acres per day and scrapers can disturb 1 acre per day.*

Construction Equipment Details							
Equipment	**model**	**# of Equipment**	**hr/day**	**hp**	**load factor***	**total trips**
Linear, Grubbing & Land Clearing						
Crawler Tractors		1	8	87		
Excavators		1	8	36		
Signal Boards		0	8	6		
Worker Trips						5
Vendor Trips						0
Hauling Trips						0
Water Trucks (Added To Vendor Trips)			Acres Disturbed:	0.5		4
Linear, Grading & Excavation						
Crawler Tractors		1	8	87		
Excavators		3	8	36		
Graders		1	8	148		
Rollers		2	8	36		
Rubber Tired Loaders		1	8	150		
Scrapers		2	8	423		
Signal Boards		0	8	6		
Tractors/Loaders/Backhoes		2	8	84		
Worker Trips						30
Vendor Trips						1
Hauling Trips						0
Water Trucks (Added To Vendor Trips)			Acres Disturbed:	4.5		24
Linear, Drainage, Utilities, & Sub-Grade						
Air Compressors		1	8	37		
Generator Sets		1	8	14		
Graders		1	8	148		
Plate Compactors		1	8	8		
Pumps		1	8	11		
Rough Terrain Forkligts		1	8	96		
Scrapers		2	8	423		
Signal Boards		0	8	6		
Tractors/Loaders/Backhoes		2	8	84		
Worker Trips						25
Vendor Trips						0
Hauling Trips						0
Water Trucks (Added To Vendor Trips)			Acres Disturbed:	3.5		18
Linear, Paving						
Pavers		2	8	81		
Paving Equipment		2	8	89		
Rollers		2	8	36		
Signal Boards		0	8	6		
Tractors/Loaders/Backhoes		2	8	84		
Worker Trips						18
Vendor Trips						0
Hauling Trips						0

CalEEMod Inputs- Irwindale Gateway Project (Sewer Main and Public Storm Drain), Construction

Name:	Irwindale Gateway Project (Sewer Main and Public Storm Drain), Construction
Project Number:	IRW-04
Project Location:	13620 Live Oak Ln, Irwindale, CA 91706
County/Air Basin:	Los Angeles - South Coast AQMD
Climate Zone:	9
Land Use Setting:	Urban
Operational Year:	2028
Utility Company:	Southern California Edison
Air Basin:	South Coast Air Basin
Air District:	South Coast AQMD
SRA:	9 - East San Gabriel Valley

Project Site Acreage	68.10
Disturbed Site Acreage (Public and Private)	2.28

Project Components		
Construction	***Lineal Feet***	***Acres***
Public Storm Drain Length:	800	0.00
Public Sewer Line:	650	0.00
Total Building Area	**1,450**	**0.00**
Surface Work	**Total SQFT**	**Acres**
Asphalt Surfaces	3,373	0.08
Hardscape	12,029	0.28
	TOTAL ACREAGE	**0.35**

Project Components		
Construction	***Lineal Feet***	***Acres***
Private Storm Drain Length:	5,050	0.00
Private Sewer Line:	2,850	0.00
Total Building Area	**7,900**	**0.00**
Surface Work	**Total SQFT**	**Acres**
Asphalt Surfaces	18,377	0.42
Hardscape	65,538	1.50
	TOTAL ACREAGE	**1.93**

CalEEMod Land Use Inputs - Public

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Parking*	Other Asphalt Surfaces	3.373	1000 sqft	0.08	3,373
Parking*	Other Non-asphalt Surfaces (Hardscape)	12.029	1000 sqft	0.28	12,029
				0.35	

CalEEMod Land Use Inputs - Private

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Parking*	Other Asphalt Surfaces	18.377	1000 sqft	0.42	18,377
Parking*	Other Non-asphalt Surfaces (Hardscape)	65.538	1000 sqft	1.50	65,538
				1.93	

Construction Mitigation

SCAQMD Rule 403

Replace Ground Cover	PM10:	5	% Reduction
	PM25:	5	% Reduction
Water Exposed Area	Frequency:	2	per day
	PM10:	61	% Reduction
	PM25:	61	% Reduction
Unpaved Roads	Vehicle Speed:	25	mph

SCAQMD Rule 1186

	Clean Paved Road	9	% PM Reduction

Construction Activities and Schedule Assumption

* based on information provided by the Applicant

		Construction Schedule		
Construction Activities	**Phase Type**	**Start Date**	**End Date**	**CalEEMod Duration (Workday)**
Sewer Main and Public Storm Drain (Public)				
Site Preparation (Public)		1/30/2025	2/6/2025	6
Utility Trenching (Public)		2/7/2025	12/25/2025	230
Pipeline Construction (Public)		2/7/2025	12/25/2025	230
Paving (Public)		12/8/2025	12/31/2025	18
Sewer Main and Public Storm Drain (Private)				
Site Preparation (Private)		9/15/2026	9/22/2026	6
Utility Trenching (Private)		9/23/2026	8/10/2027	230
Pipeline Construction (Private)		9/23/2026	8/10/2027	230
Paving (Private)		7/21/2027	8/15/2027	18

CalEEMod Construction Off-Road Equipment Inputs

**Based on CalEEMod defaults, assumed equipment would not be shared for most conservative results*

General Construction Hours: 8 hours btwn 7:00 AM to 4:00 PM (with 1 hr break), Mon-Fri

Water Truck Vendor Trip Calculation

Amount of Water (gal/acre/day)[1]	Water Truck Capacity (gallons)[2]
10,000	4,000

Notes:

[1] *Based on data provided in Guidance for Application for Dust Control Permit https://www.epa.gov/sites/default/files/2019-04/documents/mr_guidanceforapplicationfordustcontrolpermit.pdf)*

[2] *Based on standard water truck capacity: McLellan Industries. 2022, January (access). Water Trucks. https://www.mclellanindustries.com/trucks/water-*

[3] *Assumes that dozers, tractors/loaders/backhoes, and graders can disturb 0.50 acres per day and scrapers can disturb 1 acre per day.*

Construction Equipment Details						
Equipment	**model**	**# of Equipment**	**hr/day**	**hp**	**load factor***	**total trips**
Public Portion of Sewer Main and Storm Drain						
Site Preparation (Public)						
Tractors/Loaders/Backhoes		1	7	84		
Graders		1	8	148		
Scrapers		1	8	423		
Worker Trips						8
Vendor Trips						0
Hauling Trips						0
Water Trucks (Added To Vendor Trips)			Acres Disturbed:	1.9375		10
Utility Trenching (Public)						
Tractors/Loaders/Backhoes		1	6	97		
Dumper/Tender		1	6	16		
Concrete/Industrial Saw		1	6	81		
Excavator		1	6	158		
Worker Trips						10
Vendor Trips						0
Hauling Trips						0
Water Trucks (Added To Vendor Trips)			Acres Disturbed:	0.375		2
Pipeline Construction (Public)						
Tractors/Loaders/Backhoes		1	6	84		
Concrete Saw		1	6	33		
Cranes		1	6	367		
Asphalt Paving Equipment		1	6	89		
Steam Roller		2	6	36		
Concrete Truck		1	6	9		
Worker Trips						6
Vendor Trips						2
Hauling Trips						0
Paving (Public)						
Pavers		1	8	81		
Rollers		2	8	36		
Cement and Mortar Mixers		1	8	10		
Tractors/Loaders/Backhoes		1	8	84		
Paving Equipment		1	8	89		
Worker Trips						15
Vendor Trips						0
Hauling Trips						0
Private Portion of Sewer Main and Storm Drain						
Site Preparation (Private)						
Tractors/Loaders/Backhoes		1	7	84		
Graders		1	8	148		
Scrapers		1	8	423		
Worker Trips						8
Vendor Trips						0
Hauling Trips						0
Water Trucks (Added To Vendor Trips)			Acres Disturbed:	1.9375		10

Utility Trenching (Private)							
	Tractors/Loaders/Backhoes		1	6	97		
	Dumper/Tender		1	6	16		
	Concrete/Industrial Saw		1	6	81		
	Excavator		1	6	158		
	Worker Trips						10
	Vendor Trips						0
	Hauling Trips						0
	Water Trucks (Added To Vendor Trips)			Acres Disturbed:	0.375		2
Pipeline Construction (Private)							
	Tractors/Loaders/Backhoes		1	6	84		
	Concrete Saw		1	6	33		
	Cranes		1	6	367		
	Asphalt Paving Equipment		1	6	89		
	Steam Roller		2	6	36		
	Concrete Truck		1	6	9		
	Worker Trips						6
	Vendor Trips						2
	Hauling Trips						0
Paving (Private)							
	Pavers		1	8	81		
	Rollers		2	8	36		
	Cement and Mortar Mixers		1	8	10		
	Tractors/Loaders/Backhoes		1	8	84		
	Paving Equipment		1	8	89		
	Worker Trips						15
	Vendor Trips						0
	Hauling Trips						0

CalEEMod Inputs- Irwindale Gateway Project (Option 1), Operations

Name:	Irwindale Gateway Project (Option 1), Operations
Project Number:	IRW-04
Project Location:	13620 Live Oak Ln, Irwindale, CA 91706
County/Air Basin:	Los Angeles - South Coast AQMD
Climate Zone:	9
Land Use Setting:	Urban
Operational Year:	2027
Utility Company:	Southern California Edison
Air Basin:	South Coast Air Basin
Air District:	South Coast AQMD
SRA:	9 - East San Gabriel Valley

Project Site Acreage 68.10

	Building 1	Building 2	Building 3	Subtotal
Disturbed Site Acreage	5.12	31.89	15.89	52.90

Project Components				
Construction	***Number of Stories***	***SQFT***	***Building Footprint***	***Acres***
Option 1				
Building 1[1]	1	74,110	74,110	1.70
Building 2[1]	1	690,776	675,776	15.51
Building 3[1]	1	232,910	232,910	5.35
Total Building Area		**997,796**		**22.56**
Cold Storage Space[2]		387,500		8.76
Unrefrigerated Building Space		610,296		13.80
Surface Work	**Stalls**	**SQFT per Stall**	**Total SQFT**	**Acres**
Automobile Parking Stalls (Building 1)	62	400	24,800	0.57
Automobile Parking Stalls (Buildings 2 and 3)	840	400	336,000	7.71
Truck Parking Stalls (Building 1)	26	1,300	33,800	0.78
Truck Parking Stalls (Buildings 2 and 3)	320	1,300	416,000	9.55
Landscaping			310,164	7.12
Hardscape			200,764	4.61
			TOTAL ACREAGE	**52.90**

Notes

[1] Includes building area for warehousing and office uses

[2] Based on the cold storage area shown in the Irwindale Gateway Specific Plan

CalEEMod Land Use Inputs - Option 1

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Industrial	Refrigerated Warehouse - No Rail	387.500	1000 sqft	8.76	387,500
Industrial	Unrefrigerated Warehouse - No Rail	610.296	1000 sqft	13.80	610,296
Parking*	Parking Lot	810.600	1000 sqft	18.61	810,600
Parking*	Other Non-asphalt Surfaces (Landscape)	310.164	1000 sqft	7.12	310,164
Parking*	Other Non-asphalt Surfaces (Hardscape)	200.764	1000 sqft	4.61	200,764
				52.90	

Trips

Daily Trip Generation

Refrigerated Space		Unrefrigerated Space		Total	
Trucks (HHDT)	Passenger	Trucks (HHDT)	Passenger	Trucks (HHDT)	Passenger
215	671	339	1,056	554	1,727

Land Use Type	Average Daily Trips	CalEEMod Trip Rate	Saturday/Sunday Trips	CalEEMod Trip Rate
Refrigerated Warehouse - No Rail				
Passenger	671	**1.730815**	671	**1.73**
Truck	215	**0.555224**	215	**0.56**
Unrefrigerated Warehouse - No Rail				
Passenger	1,056	**1.730815**	1,056	**1.73**
Truck	339	**0.56**	339	**0.56**

VMT Calculations

Truck Trip VMT (mi/trip)[1]	39.90
Passenger Trip VMT (mi/trip)[2]	16.70

Notes

[1] South Coast AQMD. 2021, June. WAIRE Implementation Guidelines, Rule 2305 – Warehouse Indirect Source Rule – Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program, Rule 316 – Fees for Rule 2305. http://www.aqmd.gov/docs/default-source/planning/fbmsm-docs/waire-implementation-guidelines.pdf?sfvrsn=12

[2] CalEEMod Default miles per trip

	Passenger VMT	Truck VMT	Daily VMT	Yearly VMT
Unrefrigerated	17,641	13,520	31,161	11,342,740
Refrigerated	11,201	8,584	19,786	7,201,934
TOTAL	**28,842**	**22,105**	**50,947**	**18,544,674**

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

Building	Length	Width	Estimated Number of Pallets[1]	Forecasted Number of Forklifts
Building 1	310	239	7,088	4
Building 2	1,100	628	63,431	36
Building 3	670	348	21,409	12
TOTAL			91,928	

	Estimated # of Pallets[2]	Forecast # of Forklifts
Proposed Project	91,928	53

Sources:

[1] Based on other warehousing projects.

[2] Raymond Handling Pallet Space Calculator. https://www.raymondwest.com/learn/tools-and-calculators/pallet-space-calculator

[3] Anticipates forklifts would be electric powered.

Electricity (Buildings)

Default CalEEMod Energy Use

Land Use Subtype	Total Annual Electricity Consumption (kWh/year)	Total Annual Natural Gas Consumption (kBTU/year)	Title-24 Electricity Energy Intensity (kWh/year)	Title-24 Natural Gas Energy Intensity (KBTU/year)	Nontitle-24 Electricity Energy Intensity (kWh/year)	Nontitle-24 Natural Gas Energy Intensity (KBTU/year)
Refrigerated Warehouse - No Rail	7,493,498.90	9,708,441.42	**771,827.68**	**149,499.26**	6,721,671.22	9,558,942.16
Unrefrigerated Warehouse - No Rail	2,856,406.81	11,764,154.92	**1,899,947.29**	**457,861.07**	956,459.52	11,306,293.85
Parking Lot	710,085.59	0.00	**710,085.59**	**0.00**	0.00	0.00
Other Non-asphalt Surfaces	0.00	0.00	**0.00**	**0.00**	0.00	0.00

Water Use [1]

	Indoor	Outdoor	Total[3]
Proposed Project Water Use (gpd)	131,761	20,355	152,116.00
Proposed Project Water Use (gal/year)	48,092,765	7,429,575	55,522,340.00

Notes

1 Based on water and wastewater use numbers from Water Supply and Demand Analysis. See Section 5.17, Utilities and Service Systems.

3 Assumes 100% aerobic treatment.

Solid Waste

Land Use	Solid Waste Generation Rate (lb/KSF/day)	Total Solid Waste (lb/day)[1]	Total Solid Waste (tons/yr)	Total Solid Waste (tons/unit/yr)
Proposed Project Solid Waste (Refrigerated BSF)	1.42	550.25	100.42	0.26
Proposed Project Solid Waste (Unrefrigerated BSF)	1.42	866.62	158.16	0.26

Notes

1 See Section 5.17, *Utilities and Service Systems,* for solid waste calculations.

Architectural Coating

	Percent Painted	
Interior Painted:	100%	
Exterior Painted:	100%	
Interior Paint VOC content:	100	grams per liter
Exterior Paing VOC content:	100	grams per liter

Structures	Land Use Square Feet	CalEEMod Factor[2]	Total Paintable Surface Area	Paintable Interior Area[1]	Paintable Exterior Area[1]
Residential Structures					
Building 1	74,110	2.0	148,220	111,165	37,055
Buildings 2 and 3	923,686	2.0	1,847,372	1,385,529	461,843
			1,995,592	**1,496,694**	**498,898**
Parking					
Parking (Building 1)	58,600	6%	3,516	-	3,516
Parking (Buildings 2 and 3)	752,000	6%	45,120	-	45,120
			48,636		**48,636**

[1]CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.

[2] The program assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage defined by the user.

[3] Assumes that bridge, roadway, parkinglot, and basketball court will be striped. CalEEMod methodology assumes 6% of surface area is striped.

Southern California Edison Carbon Intensity Factors

CO2:[1,2]	449.98	pounds per megawatt hour
CH4:[3]	0.033	pound per megawatt hour
N2O:[3]	0.004	pound per megawatt hour

[1] Based on CO2e intensity factor of 452 pounds per megawatt hour; Southern California Edison. 2022. 2021 Sustainability Report. https://www.edison.com/home/sustainability/sustainability-

[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.

Global Warming Potentials (GWP)		
	AR4	**AR5**
CO_2	1	1
CH_4	25	28
N_2O	298	265

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

CalEEMod Inputs- Irwindale Gateway Project (Option 2), Operations

Name:	Irwindale Gateway Project (Option 2), Operations
Project Number:	IRW-04
Project Location:	13620 Live Oak Ln, Irwindale, CA 91706
County/Air Basin:	Los Angeles - South Coast AQMD
Climate Zone:	9
Land Use Setting:	Urban
Operational Year:	2027
Utility Company:	Southern California Edison
Air Basin:	South Coast Air Basin
Air District:	South Coast AQMD
SRA:	9 - East San Gabriel Valley

Project Site Acreage 68.10

	Building 1	Buiding 2	BESS Facility	Subtotal
Disturbed Site Acreage	5.12	31.84	15.94	52.90

Project Components				
Construction	***Number of Stories***	***SQFT***	***Building Footprint***	***Acres***
Option 2				
Building 1[1]	1	77,110	74,110	1.70
Building 2[1]	1	626,960	611,960	14.05
Total Building Area		**704,070**		**15.75**
Cold Storage Space[2]		387,500		8.67
Unrefrigerated Building Space		316,570		7.08
Surface Work	**Stalls**	**SQFT per Stall**	**Total SQFT**	**Acres**
Automobile Parking Stalls	617	400	246,800	5.67
Truck Parking Stalls	257	1,300	334,100	7.67
BESS Facility			694,346	15.94
Landscaping			180,333	4.14
Hardscape			162,675	3.73
			TOTAL ACREAGE	**52.90**

Notes

[1] Includes building area for warehousing and office uses

[2] Based on the cold storage area shown in the Irwindale Gateway Specific Plan

CalEEMod Land Use Inputs - Option 2

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Industrial	Refrigerated Warehouse - No Rail	387.500	1000 sqft	8.67	387,500
Industrial	Unrefrigerated Warehouse - No Rail	316.570	1000 sqft	7.08	316,570
Parking*	Parking Lot	580.900	1000 sqft	13.34	580,900
Parking*	Other Non-asphalt Surfaces (Landscape)	180.333	1000 sqft	4.14	180,333
Parking*	Other Non-asphalt Surfaces (Hardscape)	857.021	1000 sqft	19.67	857,021
				52.90	

Trips

Daily Trip Generation

Refrigerated Space		Unrefrigerated Space		Total	
Trucks	Passenger	Trucks	Passenger	Trucks	Passenger
230	602	188	491	418	1,093

Land Use Type	Average Daily Trips	CalEEMod Trip Rate	Saturday/Sunday Trips	CalEEMod Trip Rate
Refrigerated Warehouse - No Rail				
Passenger	602	**1.552402460**	602	**1.55**
Truck	230	**0.593690968**	230	**0.59**
Unrefrigerated Warehouse - No Rail				
Passenger	491	**1.55**	491	**1.55**
Truck	188	**0.59**	188	**0.59**

VMT Calculations

Truck Trip VMT (mi/trip)[1]	39.90
Passenger Trip VMT (mi/trip)[2]	16.70

Notes

[1] South Coast AQMD. 2021, June. WAIRE Implementation Guidelines, Rule 2305 – Warehouse Indirect Source Rule – Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program, Rule 316 – Fees for Rule 2305. http://www.aqmd.gov/docs/default-

[2] CalEEMod Default miles per trip

	Passenger VMT	Truck VMT	Total Daily VMT	Yearly VMT
Unrefrigerated	8,208	7,499	15,707	5,717,170
Refrigerated	10,046	9,179	19,226	6,998,147
TOTAL	**18,254**	**16,678**	**34,932**	**12,715,317**
	6662706.469	6087543		

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

Building	Length	Width	Estimated Number of Pallets[1]	Forecasted Number of Forklifts
Building 1	310	249	7,088	4
Building 2	1,090	575	57,549	33
TOTAL			64,637	

	Estimated # of Pallets[2]	Forecast # of Forklifts
Proposed Project	64,637	37

Sources:

[1] Based on other warehousing projects.

[2] Raymond Handling Pallet Space Calculator. https://www.raymondwest.com/learn/tools-and-calculators/pallet-space-calculator

[3] Anticipates forklifts would be electric powered.

Electricity (Buildings)

Default CalEEMod Energy Use

Land Use Subtype	Total Annual Electricity Consumption (kWh/year)	Total Annual Natural Gas Consumption (kBTU/year)	Title-24 Electricity Energy Intensity (kWh/year)	Title-24 Natural Gas Energy Intensity (KBTU/year)	Nontitle-24 Electricity Energy Intensity (kWh/year)	Nontitle-24 Natural Gas Energy Intensity (KBTU/year)
Refrigerated Warehouse - No Rail	7,493,498.90	9,708,441.42	**771,827.68**	**149,499.26**	6,721,671.22	9,558,942.16
Unrefrigerated Warehouse - No Rail	1,481,662.50	6,102,249.60	**985,532.12**	**237,499.64**	496,130.38	5,864,749.96
Parking Lot	508,868.39	0.00	**508,868.39**	**0.00**	0.00	0.00
Other Non-asphalt Surfaces	0.00	0.00	**0.00**	**0.00**	0.00	0.00

Water Use [1]

	Indoor	Outdoor	Total[3]
Proposed Project Water Use (gpd)	131,761	20,355	152,116.00
Proposed Project Water Use (gal/year)	48,092,765	7,429,575	55,522,340.00

Notes

1 Based on water and wastewater use numbers from Water Supply and Demand Analysis. See Section 5.17, Utilities and Service Systems.

3 Assumes 100% aerobic treatment.

Solid Waste

Land Use	Solid Waste Generation Rate (lb/KSF/day)	Total Solid Waste (lb/day)[1]	Total Solid Waste (tons/yr)	Total Solid Waste (tons/unit/yr)
Proposed Project Solid Waste	1.42	550.25	100.42	0.26
Proposed Project Solid Waste	1.42	449.53	82.04	0.26

Notes

1 See Section 5.17, *Utilities and Service Systems,* for solid waste calculations.

Electricity (Buildings)

Default CalEEMod Energy Use

Land Use Subtype	Total Annual Electricity Consumption (kWh/year)	Total Annual Natural Gas Consumption (kBTU/year)	Title-24 Electricity Energy Intensity (kWh/year)	Title-24 Natural Gas Energy Intensity (KBTU/year)	Nontitle-24 Electricity Energy Intensity (kWh/year)	Nontitle-24 Natural Gas Energy Intensity (KBTU/year)
Refrigerated Warehouse - No Rail	7,493,498.90	9,708,441.42	**771,827.68**	**149,499.26**	6,721,671.22	9,558,942.16
Unrefrigerated Warehouse - No Rail	1,481,662.50	6,102,249.60	**985,532.12**	**237,499.64**	496,130.38	5,864,749.96
Parking Lot	508,868.39	0.00	**508,868.39**	**0.00**	0.00	0.00
Other Non-asphalt Surfaces	0.00	0.00	**0.00**	**0.00**	0.00	0.00

Architectural Coating

	Percent Painted
Interior Painted:	100%
Exterior Painted:	100%

Rule 1113

Interior Paint VOC content:	50	grams per liter
Exterior Paing VOC content:	50	grams per liter

Structures	Land Use Square Feet	CalEEMod Factor[2]	Total Paintable Surface Area	Paintable Interior Area[1]	Paintable Exterior Area[1]
Residential Structures					
Building 1	77,110	2	154,220	115,665	38,555
Building 2	626,960	2	1,253,920	940,440	313,480
			1,408,140	**1,056,105**	**352,035**
Striping					
Parking	580,900	6%	34,854	-	34,854
			34,854		**49,662**

[1]CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.

[2] The program assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage defined by the user.

[3] Assumes that bridge, roadway, parkinglot, and basketball court will be striped. CalEEMod methodology assumes 6% of surface area is striped.

Southern California Edison Carbon Intensity Factors

CO2:[1,2]	449.98	pounds per megawatt hour
CH4:[3]	0.033	pound per megawatt hour
N2O:[3]	0.004	pound per megawatt hour

[1] Based on CO2e intensity factor of 452 pounds per megawatt hour; Southern California Edison. 2022. 2021 Sustainability Report.

[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.

Global Warming Potentials (GWP)		
	AR4	**AR5**
CO_2	1	1
CH_4	25	28
N_2O	298	265
Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH4 and N2O; Intergovernmental Panel on Climate Change (IPCC).		

Changes to the CalEEMod Defaults - Refrigerated Warehouse Fleet Mix (Passenger Cars) - 2027

Passenger ADT 671
Total ADT 886

Default	HHD	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHD	OBUS	SBUS	UBUS	
FleetMix (Model Default Percentage	0.894506928	49.32835102	4.232946783	24.0234971	2.696694434	0.692535797	2.200900577	14.34000432	0.278102397	1.10110268	0.0845281	0.064908603	0.0619211	100.00
FleetMix (Converted)	0.008945069	0.49328351	0.042329468	0.240234971	0.026966944	0.006925358	0.022009006	0.143400043	0.002781024	0.011011027	0.000845281	0.000649086	0.000619211	100%
Trips	8	437	37	213	24	6	19	127	2	10	1	1	1	886
Percent		80%			6%			14%						100%
without buses/MH	0.008945	0.493284	0.042329	0.240235	0.026967	0.006925	0.022009	0.143400	0.000000	0.011011	0	0.000000	0	100%
Percent		80%			5%			14%						100%
Adjusted without buses/MH	0.009758	0.493284	0.042329	0.240235	0.029418	0.007555	0.024010	0.143400	0.000000	0.012012	0.000000	0.000000	0.000000	
Percent adjusted		80%			6%			14%						100%
Assumed Mix		97.0%			1.00%			2.00%						100%
Adjusted with Assumed Mix Percentage	0.001661	0.598213	0.051334	0.291337	0.005008	0.001286	0.029117	0.020000	0.000000	0.002045	0.000000	0.000000	0.000000	100%
Adjusted CalEEMod Input	**0.166116**	**59.821282**	**5.133362**	**29.133680**	**0.500794**	**0.128608**	**2.911675**	**2.000000**	**0.000000**	**0.204482**	**0.000000**	**0.000000**	**0.000000**	
Percent Check:		97%			1%			2%						
Trips	1	401	34	195	3	1	20	13	0	1	0	0	0	670
		651			*39*			*13*						

Fleet mix for the project is modified to reflect a higher proportion of passenger vehicles that the regional VMT. Assumes a mix of approximately 97% passenger vehicles, 2% medium duty trucks, and 1% heavy duty trucks and buses.

Changes to the CalEEMod Defaults - Refrigerated Warehouse Fleet Mix (Trucks) - 2027

Passenger ADT 215
Total ADT 886

Default	HHD	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHD	OBUS	SBUS	UBUS	
FleetMix (Model Default Percentage	0.894506928	49.32835102	4.232946783	24.0234971	2.696694434	0.692535797	2.200900577	14.34000432	0.278102397	1.10110268	0.0845281	0.064908603	0.0619211	100.00
FleetMix (Converted)	0.008945069	0.49328351	0.042329468	0.240234971	0.026966944	0.006925358	0.022009006	0.143400043	0.002781024	0.011011027	0.000845281	0.000649086	0.000619211	100%
Trips	8	437	37	213	24	6	19	127	2	10	1	1	1	886
Percent		80%			6%			14%						100%
Adjusted for HHDT Trucks	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	100%
Adjusted CalEEMod Input	**100**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
Trips	215	0	0	0	0	0	0	0	0	0	0	0	0	0

Fleet mix assumes that all truck trips will be HHDT

Changes to the CalEEMod Defaults - Unrefrigerated Warehouse Fleet Mix (Passenger Cars) - 2027

Passenger ADT 1,056
Total ADT 1,395

Default	HHD	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHD	OBUS	SBUS	UBUS	
FleetMix (Model Default Percentage	0.894506928	49.32835102	4.232946783	24.0234971	2.696694434	0.692535797	2.200900577	14.34000432	0.278102397	1.10110268	0.0845281	0.064908603	0.0619211	100.00
FleetMix (Converted)	0.008945069	0.49328351	0.042329468	0.240234971	0.026966944	0.006925358	0.022009006	0.143400043	0.002781024	0.011011027	0.000845281	0.000649086	0.000619211	100%
Trips	12	688	59	335	38	10	31	200	4	15	1	1	1	1,395
Percent		80%			6%			14%						100%
without buses/MH	0.008945	0.493284	0.042329	0.240235	0.026967	0.006925	0.022009	0.143400	0.000000	0.011011	0	0.000000	0	100%
Percent		80%			5%			14%						100%
Adjusted without buses/MH	0.009758	0.493284	0.042329	0.240235	0.029418	0.007555	0.024010	0.143400	0.000000	0.012012	0.000000	0.000000	0.000000	
Percent adjusted		80%			6%			14%						100%
Assumed Mix		97.0%			1.00%			2.00%						100%
Adjusted with Assumed Mix Percentage	0.001661	0.598213	0.051334	0.291337	0.005008	0.001286	0.029117	0.020000	0.000000	0.002045	0.000000	0.000000	0.000000	100%
Adjusted CalEEMod Input	**0.166116**	**59.821282**	**5.133362**	**29.133680**	**0.500794**	**0.128608**	**2.911675**	**2.000000**	**0.000000**	**0.204482**	**0.000000**	**0.000000**	**0.000000**	
Percent Check:		97%			1%			2%						
Trips	2	632	54	308	5	1	31	21	0	2	0	0	0	1,055
		1,025			*61*			*21*						

Fleet mix for the project is modified to reflect a higher proportion of passenger vehicles that the regional VMT. Assumes a mix of approximately 97% passenger vehicles, 2% medium duty trucks, and 1% heavy duty trucks and buses.

Changes to the CalEEMod Defaults - Unrefrigerated Warehouse Fleet Mix (Trucks) - 2027

Passenger ADT 339
Total ADT 1,395

Default	HHD	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHD	OBUS	SBUS	UBUS	
FleetMix (Model Default Percentage	0.894506928	49.32835102	4.232946783	24.0234971	2.696694434	0.692535797	2.200900577	14.34000432	0.278102397	1.10110268	0.0845281	0.064908603	0.0619211	100.00
FleetMix (Converted)	0.008945069	0.49328351	0.042329468	0.240234971	0.026966944	0.006925358	0.022009006	0.143400043	0.002781024	0.011011027	0.000845281	0.000649086	0.000619211	100%
Trips	12	688	59	335	38	10	31	200	4	15	1	1	1	1,395
Percent		80%			6%			14%						100%
Adjusted for HHDT Trucks	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	100%
Adjusted CalEEMod Input	**100**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
Trips	339	0	0	0	0	0	0	0	0	0	0	0	0	0

Changes to the CalEEMod Defaults - Unrefrigerated Warehouse Fleet Mix (Passenger Cars) - 2027

Passenger ADT 1,056
Total ADT 1,395

Default	HHD	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHD	OBUS	SBUS	UBUS	
FleetMix (Model Default Percentage	0.894506928	49.32835102	4.232946783	24.0234971	2.696694434	0.692535797	2.200900577	14.34000432	0.278102397	1.10110268	0.0845281	0.064908603	0.0619211	100.00
FleetMix (Converted)	0.008945069	0.49328351	0.042329468	0.240234971	0.026966944	0.006925358	0.022009006	0.143400043	0.002781024	0.011011027	0.000845281	0.000649086	0.000619211	100%
Trips	12	688	59	335	38	10	31	200	4	15	1	1	1	1,395
Percent		80%			6%			14%						100%
without buses/MH	0.008945	0.493284	0.042329	0.240235	0.026967	0.006925	0.022009	0.143400	0.000000	0.011011	0	0.000649	0	100%
Percent		80%			5%			14%						100%
Adjusted without buses/MH	0.009642	0.493284	0.042329	0.240235	0.029068	0.007465	0.023724	0.143400	0.000000	0.011869	0.000000	0.000700	0.000000	
Percent adjusted		80%			6%			14%						100%
Assumed Mix		97.0%			1.00%			2.00%						100%
Adjusted with Assumed Mix Percentage	0.001641	0.598427	0.051352	0.291441	0.004948	0.001271	0.028780	0.020000	0.000000	0.002020	0.000000	0.000119	0.000000	100%
Adjusted CalEEMod Input	**0.164137**	**59.842677**	**5.135198**	**29.144100**	**0.494829**	**0.127077**	**2.878025**	**2.000000**	**0.000000**	**0.202047**	**0.000000**	**0.011910**	**0.000000**	
Percent Check:		97%			1%			2%						
Trips	2	632	54	308	5	1	30	21	0	2	0	0	0	1,055
		1,025			*60*			*21*						

Fleet mix for the project is modified to reflect a higher proportion of passenger vehicles that the regional VMT. Assumes a mix of approximately 97% passenger vehicles, 2% medium duty trucks, and 1% heavy duty trucks and buses.

Changes to the CalEEMod Defaults - Unrefrigerated Warehouse Fleet Mix (Trucks) - 2027

Passenger ADT 339
Total ADT 1,395

Default	HHD	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHD	OBUS	SBUS	UBUS	
FleetMix (Model Default Percentage	0.894506928	49.32835102	4.232946783	24.0234971	2.696694434	0.692535797	2.200900577	14.34000432	0.278102397	1.10110268	0.0845281	0.064908603	0.0619211	100.00
FleetMix (Converted)	0.008945069	0.49328351	0.042329468	0.240234971	0.026966944	0.006925358	0.022009006	0.143400043	0.002781024	0.011011027	0.000845281	0.000649086	0.000619211	100%
Trips	12	688	59	335	38	10	31	200	4	15	1	1	1	1,395
Percent		80%			6%			14%						100%
Adjusted for HHDT Trucks	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	100%
Adjusted CalEEMod Input	**100**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
Trips	339	0	0	0	0	0	0	0	0	0	0	0	0	0

Changes to the CalEEMod Defaults - Refrigerated Warehouse Fleet Mix (Passenger Cars) - 2027

Passenger ADT 671
Total ADT 886

Default	HHD	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHD	OBUS	SBUS	UBUS	
FleetMix (Model Default Percentage	0.894506928	49.32835102	4.232946783	24.0234971	2.696694434	0.692535797	2.200900577	14.34000432	0.278102397	1.10110268	0.0845281	0.064908603	0.0619211	100.00
FleetMix (Converted)	0.008945069	0.49328351	0.042329468	0.240234971	0.026966944	0.006925358	0.022009006	0.143400043	0.002781024	0.011011027	0.000845281	0.000649086	0.000619211	100%
Trips	8	437	37	213	24	6	19	127	2	10	1	1	1	886
Percent		80%			6%			14%						100%
without buses/MH	0.008945	0.493284	0.042329	0.240235	0.026967	0.006925	0.022009	0.143400	0.000000	0.011011	0	0.000649	0	100%
Percent		80%			5%			14%						100%
Adjusted without buses/MH	0.009642	0.493284	0.042329	0.240235	0.029068	0.007465	0.023724	0.143400	0.000000	0.011869	0.000000	0.000700	0.000000	
Percent adjusted		80%			6%			14%						100%
Assumed Mix		97.0%			1.00%			2.00%						100%
Adjusted with Assumed Mix Percentage	0.001641	0.598427	0.051352	0.291441	0.004948	0.001271	0.028780	0.020000	0.000000	0.002020	0.000000	0.000119	0.000000	100%
Adjusted CalEEMod Input	**0.164137**	**59.842677**	**5.135198**	**29.144100**	**0.494829**	**0.127077**	**2.878025**	**2.000000**	**0.000000**	**0.202047**	**0.000000**	**0.011910**	**0.000000**	
Percent Check:		97%			1%			2%						
Trips	1	401	34	195	3	1	19	13	0	1	0	0	0	670
		651			*38*			*13*						

Fleet mix for the project is modified to reflect a higher proportion of passenger vehicles that the regional VMT. Assumes a mix of approximately 97% passenger vehicles, 2% medium duty trucks, and 1% heavy duty trucks and buses.

Changes to the CalEEMod Defaults - Refrigerated Warehouse Fleet Mix (Trucks) - 2027

Passenger ADT 671
Total ADT 886

Default	HHD	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHD	OBUS	SBUS	UBUS	
FleetMix (Model Default Percentage	0.894506928	49.32835102	4.232946783	24.0234971	2.696694434	0.692535797	2.200900577	14.34000432	0.278102397	1.10110268	0.0845281	0.064908603	0.0619211	100.00
FleetMix (Converted)	0.008945069	0.49328351	0.042329468	0.240234971	0.026966944	0.006925358	0.022009006	0.143400043	0.002781024	0.011011027	0.000845281	0.000649086	0.000619211	100%
Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent		80%			6%			14%						100%
Adjusted for HHDT Trucks	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	100%
Adjusted CalEEMod Input	**100**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
Trips	671	0	0	0	0	0	0	0	0	0	0	0	0	0

Operational Offroad Equipment and Truck Idling

Model Output: OFFROAD2021 (v1.0.4) Emissions Inventory
Region Type: Sub-Area
Region: Los Angeles (SC)
Calendar Year: 2027
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	CalYr	VehClass	MdlYr	HP_Bin	Fuel	HC_tpd	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2_5_tpd	SOx_tpd	NH3_tpd	Fuel_gpy	Total_Activity_hpy	Total_Population	Horsepower_Hours_hhpy
Los Angeles (SC)	2027	Cargo Handling Equipment - Port Yard Truck	Aggregate	175	Diesel	0.005655939	0.006596767	0.007840767	0.095528554	0.039284317	15.6149206	0.000983815	0.000909149	0.000147598	5.20772E-05	507902.9407	181982.0972	220.3524551	0
Los Angeles (SC)	2027	Cargo Handling Equipment - Port Yard Truck	Aggregate	175	Nat Gas	0.00002417	0.00002919	0.00003475	0.000486392	0.00006399	0.062094209	0.000006383	0.000005872	0	1.3893E-09	2014.578216	519.5810734	3.756007758	0
Los Angeles (SC)	2027	Cargo Handling Equipment - Port Yard Truck	Aggregate	300	Diesel	0.04480368	0.050422	0.096742088	0.292107771	0.37827898	152.4321607	0.007347583	0.006808912	0.001155536	0.017399143	4958125.928	2846992.405	1498.647095	0
Los Angeles (SC)	2027	Cargo Handling Equipment - Port Yard Truck	Aggregate	300	Nat Gas	0.043857368	0.053048872	0.063253708	1.024200076	0.090741244	49.74974035	0.005079539	0.004672409	0	5.68727E-05	1614125.827	370562.7175	217.84845	0
Los Angeles (SC)	2027	Cargo Handling Equipment - Port Yard Truck	Aggregate	600	Gasoline	0.013139182	0.0158982	0.018920074	2.226643715	0.047204137	46.4275986	0.004000142	0.003681043	0	1.03828E-06	1506292.306	168975.2771	167.7683465	0
Los Angeles (SC)	2027	Cargo Handling Equipment - Port Yard Truck	Aggregate	600	Diesel	0.005410327	0.006546455	0.007790825	0.019649119	0.043391386	9.290823273	0.002353591	0.002165284	8.817E-05	2.084E-07	302200.4776	28839.44921	11.26802327	0
Los Angeles (SC)	2027	Cargo Handling Equipment - Rail Yard Truck	Aggregate	300	Diesel	0.006045394	0.007231922	0.025799234	0.05977735	0.067253808	29.64767235	0.002010832	0.001849464	0.000151044	0.007721412	964343.0383	634317.0577	0	0
Los Angeles (SC)	2027	Industrial - Forklifts	Aggregate	100	Diesel	0.027348072	0.033091167	0.039381224	0.516672359	0.311701718	76.13747161	0.013382148	0.012311576	0.000704906	0.000623011	2476506.075	2889430.711	3661.042239	238578222.6
Los Angeles (SC)	2027	Industrial - Forklifts	Aggregate	175	Diesel	0.006860207	0.008300851	0.009878698	0.147163065	0.058254524	24.49687013	0.002844605	0.002617036	0.000226858	0.000200451	796804.076	542798.9327	699.1121798	76710257.14
Los Angeles (SC)	2027	Industrial - Forklifts	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Los Angeles (SC)	2027	Industrial - Forklifts	Aggregate	300	Diesel	0.00157194	0.001902048	0.002263594	0.012339962	0.013603202	5.335631244	0.000515098	0.00047389	4.94094E-05	4.36599E-05	173550.8536	79456.1267	102.2637497	16682156.76
Los Angeles (SC)	2027	Industrial - Forklifts	Aggregate	50	Diesel	0.005234789	0.006334095	0.007538097	0.054463105	0.041153632	6.434758132	0.001564954	0.001439757	5.94874E-05	5.26538E-05	209301.9018	426631.8202	562.4506233	18099061.56
Los Angeles (SC)	2027	Industrial - Forklifts	Aggregate	600	Diesel	0.000480796	0.000581764	0.000692347	0.003206639	0.004387811	1.347975096	0.000163782	0.00015068	1.24801E-05	1.10301E-05	43845.27676	11826.284	15.80439768	4191858.451
Los Angeles (SC)	2027	Industrial - Forklifts	Aggregate	75	Diesel	0.001506113	0.001822397	0.002168803	0.011386558	0.018615019	1.366011484	0.001278219	0.001175961	1.26165E-05	1.11777E-05	44431.94222	59246.93255	92.03737473	4288442.685
Los Angeles (SC)	2027	Industrial - Forklifts	Aggregate	9999	Diesel	2.14171E-05	2.59147E-05	3.08407E-05	0.000216904	0.00050095	0.106703584	4.88072E-06	4.49026E-06	9.88405E-07	8.73125E-07	3470.72299	379.5412075	0.464835226	333996.2626
Los Angeles (SC)	2027	Industrial - Misc - Forklifts	Aggregate	100	Gasoline	0.320382705	0.294688012	0.352561623	30.5997386	1.593638918	371.1603946	0.025878192	0.019552412	0.003585927	0.005572753	15907444.6	7556306.65	4194.31	528941465.5
Los Angeles (SC)	2027	Industrial - Misc - Forklifts	Aggregate	100	Nat Gas	0	0	0.073065592	34.56204105	3.46384231	766.883954	0.068201815	0	0	0	42661156.2	17923135.2	9948.69	1254619464
Los Angeles (SC)	2027	Industrial - Misc - Forklifts	Aggregate	175	Gasoline	0.016736265	0.015394016	0.018417238	1.163894143	0.098273784	27.5165892	0.001972646	0.001490444	0.000273349	0.000389755	1112556.5	276162.65	153.29	40319746.9
Los Angeles (SC)	2027	Industrial - Misc - Forklifts	Aggregate	175	Nat Gas	0	0	0.00335348	2.025325714	0.172573724	58.53370318	0.005205618	0	0	0	3202017.25	655894.05	364.06	95760531.3
Los Angeles (SC)	2027	Industrial - Misc - Forklifts	Aggregate	25	Gasoline	0.00027615	0.000278912	0.000303886	0.023079142	0.000153342	6.23536E-06	5.57964E-07	4.21574E-07	3.53008E-07	4.8728E-07	1388.855689	0	3.327732226	0
Los Angeles (SC)	2027	Industrial - Misc - Forklifts	Aggregate	25	Electric	0.001886967	0.000170778	0.001867895	0.027105023	0.000756751	2.09626E-06	8.36439E-05	6.31976E-05	6.11801E-08	5.5042E-07	1572.587085	0	8.055004284	0
Los Angeles (SC)	2027	Industrial - Misc - Forklifts	Aggregate	50	Gasoline	0.151808515	0.139633472	0.167056011	17.98433648	0.354194428	62.651698	0.004319152	0.003263359	0.00076173	0.001213017	3462561.55	2153222.6	1195.2	88282126.6
Los Angeles (SC)	2027	Industrial - Misc - Forklifts	Aggregate	50	Nat Gas	0	0	0.012315666	2.050220908	0.536309954	127.981416	0.011381859	0	0	0	6817251	5106766.1	2834.61	209377410.1
Los Angeles (SC)	2027	Light Commercial - Misc - Generator Sets	Aggregate	100	Gasoline	0.005651836	0.005198558	0.0062195	0.265077245	0.035127508	11.43566811	0.000797322	0.000602421	0.000110485	0.000157356	449172.65	86621.8	754.17	7189609.4
Los Angeles (SC)	2027	Light Commercial - Misc - Generator Sets	Aggregate	100	Nat Gas	0	0	2.76834E-05	0.023339643	0.002170298	0.741446518	0	0	0	0	40347.1	6453.2	56.15	535615.6
Los Angeles (SC)	2027	Light Commercial - Misc - Generator Sets	Aggregate	15	Gasoline	0.686453146	0.693317678	0.755399814	38.28431011	0.354599142	97.30563523	0.001255326	0.00166146	0.001523069	0.0021024	5962485.13	0	136994.4388	0
Los Angeles (SC)	2027	Light Commercial - Misc - Generator Sets	Aggregate	15	Diesel	0.006274559	0.007546914	0.009019779	0.043800302	0.053052851	7.226339989	0.001491972	0.001974669	6.85829E-05	0.000059078	235049.5033	0	1516.476852	0
Los Angeles (SC)	2027	Light Commercial - Misc - Generator Sets	Aggregate	175	Gasoline	0.000580831	0.000534248	0.000639169	0.060235286	0.006064748	1.84849221	0.000132517	0.000100124	1.83628E-05	2.57795E-05	73587.65	8190.6	71.27	1195827.6
Los Angeles (SC)	2027	Light Commercial - Misc - Generator Sets	Aggregate	175	Nat Gas	0	0	3.0734E-05	0.027959509	0.002936249	1.081228003	0	0	0	0	58319.7	5347.25	46.56	780698.5
Los Angeles (SC)	2027	Light Commercial - Misc - Generator Sets	Aggregate	2	Gasoline	2.109462859	2.130557488	2.321335199	36.15052229	0.611849317	78.45400626	0.002496867	0.003304678	0.001390773	0.001919782	5319488.055	0	330739.2983	0
Los Angeles (SC)	2027	Light Commercial - Misc - Generator Sets	Aggregate	2	Electric	0	0	0	0	0	0	0	0	0	0	0	0	98981.1951	0
Los Angeles (SC)	2027	Light Commercial - Misc - Generator Sets	Aggregate	25	Gasoline	0.024141392	0.024382807	0.026566131	2.269375586	0.013706437	3.501570028	4.37188E-05	5.78632E-05	6.78534E-05	9.36629E-05	266752.1106	0	2626.945651	0
Los Angeles (SC)	2027	Light Commercial - Misc - Generator Sets	Aggregate	25	Diesel	0.009126866	0.010977612	0.013120017	0.037471295	0.069607116	9.107064141	0.001864241	0.002467378	8.64323E-05	7.44536E-05	296223.3864	0	1109.194588	0
Los Angeles (SC)	2027	Light Commercial - Misc - Generator Sets	Aggregate	5	Gasoline	0.197658871	0.19963546	0.217511531	9.207742765	0.044573106	19.42064019	0.000259369	0.000343283	0.000334272	0.000461418	1289741.456	0	75730.86506	0
Los Angeles (SC)	2027	Light Commercial - Misc - Generator Sets	Aggregate	50	Gasoline	0.028188848	0.025928103	0.031020108	2.012466911	0.059840476	23.08788774	0.001591658	0.001202586	0.000280707	0.00034938	997307.75	448530.25	3905.07	14352968
Los Angeles (SC)	2027	Light Commercial - Misc - Generator Sets	Aggregate	50	Diesel	0.009003036	0.010714357	0.012964372	0.12296665	0.108946709	19.1414545	0.002289275	0.002106133	0.000241685	0.000156629	622609.7	446062.85	1321.37	14720074.05
Los Angeles (SC)	2027	Light Commercial - Misc - Pumps	Aggregate	100	Gasoline	0.006624629	0.006093334	0.00729	0.357795007	0.017061811	13.10501055	0.000913713	0.000690361	0.000126613	0.000181456	517967.85	87315.3	395.55	8120322.9
Los Angeles (SC)	2027	Light Commercial - Misc - Pumps	Aggregate	15	Gasoline	0.078747713	0.07953519	0.086657056	5.149558878	0.043815531	11.7239811	0.000145382	0.000192417	0.000191136	0.000263838	749345.4489	0	18912.39168	0
Los Angeles (SC)	2027	Light Commercial - Misc - Pumps	Aggregate	15	Diesel	0.004584322	0.005513931	0.006590036	0.028525591	0.034581095	4.708590873	0.000974612	0.001289928	4.46878E-05	3.84945E-05	153155.2553	0	1138.97488	0
Los Angeles (SC)	2027	Light Commercial - Misc - Pumps	Aggregate	175	Gasoline	0.000253469	0.000233141	0.000278927	0.019845979	0.000837709	0.594948824	4.26515E-05	3.22256E-05	5.91019E-06	8.31015E-06	23721.35	2628	11.93	378432
Los Angeles (SC)	2027	Light Commercial - Misc - Pumps	Aggregate	2	Gasoline	0.036711461	0.037078577	0.040398725	0.343731146	0.002172078	1.017598939	9.91513E-06	1.3123E-05	1.65907E-05	2.29012E-05	62878.05359	0	6855.190922	0
Los Angeles (SC)	2027	Light Commercial - Misc - Pumps	Aggregate	2	Electric	0	0	0	0	0	0	0	0	0	0	0	0	538424.8306	0
Los Angeles (SC)	2027	Light Commercial - Misc - Pumps	Aggregate	25	Gasoline	0.000584798	0.000590646	0.000643534	0.042410999	0.000416517	0.096547775	1.20704E-06	1.59756E-06	1.56643E-06	2.16226E-06	6162.857578	0	62.97832713	0
Los Angeles (SC)	2027	Light Commercial - Misc - Pumps	Aggregate	25	Diesel	0.003724213	0.004479409	0.005353616	0.01514269	0.028130182	3.68077822	0.000750593	0.000993432	3.49331E-05	3.00917E-05	119723.8289	0	340.1700903	0
Los Angeles (SC)	2027	Light Commercial - Misc - Pumps	Aggregate	5	Gasoline	0.06067717	0.061283942	0.066771526	2.737143407	0.020050128	6.347081262	7.47475E-05	9.89306E-05	0.000104491	0.000144237	405054.1675	0	20763.9545	0
Los Angeles (SC)	2027	Light Commercial - Misc - Pumps	Aggregate	50	Gasoline	0.004445967	0.004089401	0.004892516	0.359415811	0.006849915	3.485649166	0.000240297	0.000181558	4.23791E-05	5.39105E-05	153887.65	68893.75	312.1	2135706.25
Los Angeles (SC)	2027	Light Commercial - Misc - Pumps	Aggregate	50	Diesel	0.005820422	0.006926783	0.008381407	0.075538659	0.064622179	11.21266092	0.001429023	0.001314701	0.000141455	9.175E-05	364711.65	232848.1	578.51	8615379.7
Los Angeles (SC)	2027	Transport Refrigeration Unit - Instate Genset	Aggregate	25	Diesel	0.00334845	0.0341861	0.00482298	0.00372194	0.0519828	8.307146537	0.00131337	0.00120813	13041.15	1.86229E-07	270204.65	574031.59	734.93	0
Los Angeles (SC)	2027	Transport Refrigeration Unit - Instate Genset	Aggregate	50	Diesel	0.0022561	0.023031	0.0032486	0.0025079	0.02118	4.084234538	0.00031539	0.00029001	6411.69	9.14858-08	132846.96	257068.54	329.09	0
Los Angeles (SC)	2027	Transport Refrigeration Unit - Instate Trailer	Aggregate	25	Diesel	0.0663149	0.616489	0.0869649	0.0725463	0.6229331	108.6436056	0.01587549	0.01460276	170557.41	2.43412E-06	3533825.64	5385724.47	3047.38	0
Los Angeles (SC)	2027	Transport Refrigeration Unit - Instate Trailer	Aggregate	50	Diesel	0.0771491	0.9328457	0.09682201	0.08016995	0.8203647	162.8226574	0.009627705	0.008857651	255612.04	3.65071E-06	5296095.23	7091980.25	4012.84	0
Los Angeles (SC)	2027	Transport Refrigeration Unit - Instate Truck	Aggregate	23	Diesel	0.0067406	0.068818	0.0097074	0.0074903	0.0850209	13.89211106	0.00447678	0.00411899	21808.87	3.11515E-07	451865.51	815645.19	1499.27	0
Los Angeles (SC)	2027	Transport Refrigeration Unit - Out-Of-State Genset	Aggregate	25	Diesel	0.003023466	0.030858675	0.004354095	0.003358873	0.045578469	7.284261715	0.00117482	0.001080718	11435.36	1.63382E-07	236933.51	503349.26	4059.19	0
Los Angeles (SC)	2027	Transport Refrigeration Unit - Out-Of-State Genset	Aggregate	50	Diesel	0.0015193	0.015508	0.0021889	0.0016894	0.014652	2.612178779	0.0003171	0.00029186	4100.73	5.857E-08	84965.74	162774.24	1312.61	0
Los Angeles (SC)	2027	Transport Refrigeration Unit - Out-Of-State Trailer	Aggregate	25	Diesel	0.064996141	0.5976301	0.08182329	0.07063794	0.63033073	107.6235071	0.01631311	0.01500764	168955.95	2.4127E-06	3500645.13	5335155.71	19614.43	0
Los Angeles (SC)	2027	Transport Refrigeration Unit - Out-Of-State Trailer	Aggregate	50	Diesel	0.029682	0.24201	0.042727	0.032997	0.17818	42.73955647	0.003947	0.0036349	67095.9	9.5822E-07	1390179.75	1865106.6	6856.92	0
Los Angeles (SC)	2027	Transport Refrigeration Unit - Railcar TRU	Aggregate	25	Diesel	0.00285334	0.0291278	0.00410729	0.0031686	0.0300628	4.803498072	0.000796535	0.000734052	7540.86	1.07662E-07	156242.28	238120.97	727.38	0
Los Angeles (SC)	2027	Transport Refrigeration Unit - Railcar TRU	Aggregate	50	Diesel	0.000606219	0.0061873	0.000873233	0.000672675	0.00530749	1.048122495	0.000046121	0.000042402	1645.37	2.34898E-08	34092.04	46285.82	141.54	0

Option 1 Transport Refrigeration Unit Emissions Worksheet

OFFROAD2021 [1]

Region	CalYr	VehClass	MdlYr	HP_Bin	Fuel	ROG_tpd	NOx_tpd	CO_tpd	SOx_tpd[2]	PM10_tpd	PM2_5_tpd	CO2_tpd	Fuel_gpy	Total_Activity_hpy	Total_Population
Los Angeles (SC)	2027	Transport Refrigeration Unit - I	Aggregated	50	Diesel	0.9328457	0.8203647	0.08016995	7.04E-05	0.009627705	0.008857651	162.8226574	5296095.23	7091980.25	4012.84

Notes

[1] OFFROAD2021 (v1.0.4)

[2] Small Off-Road Engines (SORE) Emissions for Transport Refrigeration Units used as a proxy for SOx OFFROAD2021 data

Calculated Emission Rates

Total Annual Hours	7091980.25	**Conversion Rate**	
Total Population	4012.84	Grams/Pound	453.592
Total Hours/Unit	1767.321959		
Hours/Unit/Day	4.84197797		

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2
Tons/Day	0.9328457	0.8203647	0.08016995	7.03659E-05	0.009627705	0.008857651	162.8226574
Pounds/Day	1865.6914	1640.7294	160.3399	0.14073178	19.25541	17.715302	325645.3148
lbs/Day/Unit	***0.464930423***	***0.408869878***	***0.039956714***	***3.50704E-05***	***0.004798449***	***0.004414654***	***81.15083452***
lbs/hour/unit	0.096020764	0.084442738	0.008252147	7.24298E-06	0.00099101	0.000911746	16.75985207
lbs/min/unit	0.001600346	0.001407379	0.000137536	1.20716E-07	1.65168E-05	1.51958E-05	0.279330868
grams/min/unit	0.725904172	0.638375841	0.062385131	5.4756E-05	0.007491905	0.006892679	126.702247
grams/sec/unit	0.012098403	0.010639597	0.001039752	9.126E-07	0.000124865	0.000114878	2.111704117

Project Emissions

Number of TRUs[1]

Truck Type	Trips/Day	Trucks/Day
Heavy Heavy Trucks	215	108
Total	**215**	**108**

TRU Idling per Truck[2]	120	mins/truck/day
Total TRU Idling:	12,900	mins

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2	CO2/MT/yr
	Pound Per Day							Tons Per Year
	Idling							
Emission Rate (lb/min/unit)	**1.60E-03**	**1.41E-03**	**1.38E-04**	**1.21E-07**	**1.65E-05**	**1.52E-05**	**0.279**	
Total Emissions	2.06E+01	1.82E+01	1.77E+00	1.56E-03	2.13E-01	1.96E-01	3,603.368	596.578

Notes

1 Based on truck trip data from Iteris.

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).

Option 1 Off-Road Equipment Emissions Worksheet: Forklifts (Diesel)

OFFROAD2021 [1]

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
Los Angeles (SC)	2027	Industrial - Forklifts	Aggregated	100	Diesel	0.033091167	0.311701718	0.516672359	0.000704906	0.013382148	0.012311576	76.13747161	2476506.075	2889430.711	3661.042239

Notes

[1] OFFROAD2021 (v1.0.4)

Calculated Emission Rates

Total Annual Hours	2889430.711	**Conversion Rate**	
Total Population	3661.042239	Grams/Pound	453.592
Total Hours/Unit	789.2371958		
Hours/Unit/Day	2.162293687		

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2
Tons/Day	0.033091167	0.311701718	0.516672359	0.000704906	0.013382148	0.012311576	76.13747161
Pounds/Day	66.18233445	623.4034354	1033.344717	1.409812592	26.76429662	24.62315289	152274.9432
lbs/Day/Unit	***0.018077457***	***0.170280318***	***0.282254246***	***0.000385085***	***0.007310568***	***0.006725722***	***41.59333142***
lbs/hour/unit	0.008360315	0.078749857	0.130534648	0.000178091	0.003380932	0.003110457	19.23574567
lbs/min/unit	0.000139339	0.001312498	0.002175577	2.96818E-06	5.63489E-05	5.1841E-05	0.320595761
grams/min/unit	0.06320287	0.595338415	0.986824537	0.001346344	0.025559394	0.023514642	145.4196725
grams/sec/unit	0.001053381	0.009922307	0.016447076	2.24391E-05	0.00042599	0.000391911	2.423661208

Project Emissions

Number of Forklifts[1]

Fuel Type	Forklifts/Day
Diesel Powered	53

Daily Hours of Operation	8	hr/unit/day
Total Daily Op Hours	424	hours/day
Days Per Year	365	days/year (Hours of Op)

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2	
				Pound Per Day				
Emission Rate (lb/hour/unit)	**0.008360315**	**0.078749857**	**0.130534648**	**0.000178091**	**0.003380932**	**0.003110457**	**19.23574567**	
Total Emissions (lb)	3.545	33.390	55.347	0.076	1.434	1.319	8155.956	
				Tons Per Year				**CO2/MT/yr**
	0.647	6.094	10.101	0.014	0.262	0.241	1488.462	1350.310

Option 1 Off-Road Equipment Emissions Worksheet: Yard Trucks (Diesel)

OFFROAD2021 [1]

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
Los Angeles (SC)	2027	Cargo Handling Equipment - Port Yard Truck	Aggregated	175	Diesel	0.006596767	0.039284317	0.095528554	0.000147598	0.000983815	0.000909149	15.6149206	507902.9407	181982.0972	220.3524551

Notes

[1] OFFROAD2021 (v1.0.4)

Calculated Emission Rates

Total Annual Hours	181982.0972	**Conversion Rate**	
Total Population	220.3524551	Grams/Pound	453.592
Total Hours/Unit	825.8682531		
Hours/Unit/Day	2.262652748		

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2
Tons/Day	0.006596767	0.039284317	0.095528554	0.000147598	0.000983815	0.000909149	15.6149206
Pounds/Day	13.193534	78.568634	191.057108	0.29519688	1.9676304	1.8182978	31229.8412
lbs/Day/Unit	***0.059874686***	***0.356558923***	***0.867052323***	***0.001339658***	***0.008929469***	***0.00825177***	***141.7267676***
lbs/hour/unit	0.026462163	0.157584465	0.383201675	0.000592074	0.00394646	0.003646945	62.63743639
lbs/min/unit	0.000441036	0.002626408	0.006386695	9.8679E-06	6.57743E-05	6.07824E-05	1.043957273
grams/min/unit	0.200050424	1.191317543	2.896953568	0.004476	0.029834713	0.027570418	473.5306675
grams/sec/unit	0.003334174	0.019855292	0.048282559	7.46E-05	0.000497245	0.000459507	7.892177791

Project Emissions

Total Building Square Feet	997,796	
Number of Yard Trucks [1]		

Truck Type	Trucks/Day
Diesel Powered	4

Daily Hours of Operation	8	hr/unit/day
Total Daily Op Hours	29	hours/day
Days Per Year	365	days/year

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2	
				Pound Per Day				
Emission Rate (lb/hour/unit)	**0.026462163**	**0.157584465**	**0.383201675**	**0.000592074**	**0.00394646**	**0.003646945**	**62.63743639**	
Total Emissions (lb)	0.760	4.528	11.012	0.017	0.113	0.105	1799.982	
				Tons Per Year				**CO2/MT/yr**
	0.139	0.826	2.010	0.003	0.021	0.019	328.497	298.007

Notes

[1] 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.

Option 1 Off-Road Equipment Emissions Worksheet: Diesel Pumps

OFFROAD2021 [1]

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
Los Angeles (SC)	2027	Light Commercial - Misc - Pumps	Aggregate	50	Diesel	0.006926783	0.064622179	0.075538659	0.000141455	0.001429023	0.001314701	11.21266092	364711.65	232848.1	578.51

Notes

[1] OFFROAD2021 (v1.0.4)

Calculated Emission Rates

Total Annual Hours	232848.1	**Conversion Rate**	
Total Population	578.51	Grams/Pound	453.592
Total Hours/Unit	402.4962403		
Hours/Unit/Day	1.102729426		

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2
Tons/Day	0.006926783	0.064622179	0.075538659	0.000141455	0.001429023	0.001314701	11.21266092
Pounds/Day	13.85356537	129.2443588	151.0773171	0.282910026	2.858045772	2.62940211	22425.32185
lbs/Day/Unit	***0.023946976***	***0.223409031***	***0.261149016***	***0.000489032***	***0.004940357***	***0.004545128***	***38.76393122***
lbs/hour/unit	0.021716095	0.202596418	0.236820574	0.000443474	0.004480117	0.004121708	35.15271318
lbs/min/unit	0.000361935	0.003376607	0.00394701	7.39124E-06	7.46686E-05	6.86951E-05	0.585878553
grams/min/unit	0.164170779	1.531601906	1.790331965	0.003352607	0.033869086	0.031159559	265.7498246
grams/sec/unit	0.00273618	0.025526698	0.029838866	5.58768E-05	0.000564485	0.000519326	4.429163744

Project Emissions

Number of Pumps[1]

Fuel Type	Diesel Pumps/Day
Diesel	2

Daily Hours of Operation[1]	0.137	hr/unit/day
Total Daily Op Hours	0.27	hours/day
Days Per Year	365	days/year (Hours of Op)

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2	
			Pound Per Day					
Emission Rate (lb/hour/unit)	**0.021716095**	**0.202596418**	**0.236820574**	**0.000443474**	**0.004480117**	**0.004121708**	**35.15271318**	
Total Emissions (lb)	0.006	0.056	0.065	0.000	0.001	0.001	9.631	
			Tons Per Year					**CO2/MT/yr**
	0.001	0.010	0.012	0.000	0.000	0.000	1.758	1.595

Notes

[1] Assumes that diesel pumps would operate for 50 hours per year for emergency testing and maintenance.

Option 2 Transport Refrigeration Unit Emissions Worksheet

OFFROAD2021 [1]

Region	CalYr	VehClass	MdlYr	HP_Bin	Fuel	ROG_tpd	NOx_tpd	CO_tpd	SOx_tpd[2]	PM10_tpd	PM2_5_tpd	CO2_tpd	Fuel_gpy	Total_Activity_hpy	Total_Population
Los Angeles (SC)	2027	TRU - Instate Trailer TRU	Aggregated	50	Diesel	0.9328457	0.8203647	0.08016995	7.04E-05	0.009627705	0.008857651	162.8226574	5296095.23	7091980.25	4012.84

Notes

[1] OFFROAD2021 (v1.0.4)

[2] Small Off-Road Engines (SORE) Emissions for Transport Refrigeration Units used as a proxy for SOx OFFROAD2021 data

Calculated Emission Rates

Total Annual Hours	7091980.25	**Conversion Rate**	
Total Population	4012.84	Grams/Pound	453.592
Total Hours/Unit	1767.321959		
Hours/Unit/Day	4.84197797		

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2
Tons/Day	0.9328457	0.8203647	0.08016995	7.03659E-05	0.009627705	0.008857651	162.8226574
Pounds/Day	1865.6914	1640.7294	160.3399	0.14073178	19.25541	17.715302	325645.3148
lbs/Day/Unit	***0.464930423***	***0.408869878***	***0.039956714***	***3.50704E-05***	***0.004798449***	***0.004414654***	***81.15083452***
lbs/hour/unit	0.096020764	0.084442738	0.008252147	7.24298E-06	0.00099101	0.000911746	16.75985207
lbs/min/unit	0.001600346	0.001407379	0.000137536	1.20716E-07	1.65168E-05	1.51958E-05	0.279330868
grams/min/unit	0.725904172	0.638375841	0.062385131	5.4756E-05	0.007491905	0.006892679	126.702247
grams/sec/unit	0.012098403	0.010639597	0.001039752	9.126E-07	0.000124865	0.000114878	2.111704117

Project Emissions

Number of TRUs[1]

Truck Type	Trips/Day	Trucks/Day
Heavy Heavy Trucks	230	115
Total	**230**	**115**

TRU Idling per Truck[2]	120	mins/truck/day
Total TRU Idling:	13,803	mins

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2	CO2/MT/yr
	Pound Per Day							Tons Per Year
	Idling							
Emission Rate (lb/day/unit)	**0.002**	**0.001**	**0.000**	**0.000**	**0.000**	**0.000**	**0.279**	
Total Emissions	22.090	19.426	1.898	0.002	0.228	0.210	3,855.692	638.353

Notes

[1] Based on truck trip data from Iteris.

[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).

Option 2 Off-Road Equipment Emissions Worksheet: Forklifts (Diesel)

OFFROAD2021 [1]

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
Los Angeles (SC)	2027	Industrial - Forklifts	Aggregated	100	Diesel	0.033091167	0.311701718	0.516672359	0.000704906	0.013382148	0.012311576	76.13747161	2476506.075	2889430.711	3661.042239

Notes

[1] OFFROAD2021 (v1.0.4)

Calculated Emission Rates

Total Annual Hours	2889430.711	**Conversion Rate**	
Total Population	3661.042239	Grams/Pound	453.592
Total Hours/Unit	789.2371958		
Hours/Unit/Day	2.162293687		

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2
Tons/Day	0.033091167	0.311701718	0.516672359	0.000704906	0.013382148	0.012311576	76.13747161
Pounds/Day	66.18233445	623.4034354	1033.344717	1.409812592	26.76429662	24.62315289	152274.9432
lbs/Day/Unit	***0.018077457***	***0.170280318***	***0.282254246***	***0.000385085***	***0.007310568***	***0.006725722***	***41.59333142***
lbs/hour/unit	0.008360315	0.078749857	0.130534648	0.000178091	0.003380932	0.003110457	19.23574567
lbs/min/unit	0.000139339	0.001312498	0.002175577	2.96818E-06	5.63489E-05	5.1841E-05	0.320595761
grams/min/unit	0.06320287	0.595338415	0.986824537	0.001346344	0.025559394	0.023514642	145.4196725
grams/sec/unit	0.001053381	0.009922307	0.016447076	2.24391E-05	0.00042599	0.000391911	2.423661208

Project Emissions

Number of Forklifts[1]

Fuel Type	Forklifts/Day
Diesel Powered	37

Daily Hours of Operation	8	hr/unit/day
Total Daily Op Hours	296	hours/day
Days Per Year	365	days/year (Hours of Op)

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2	
				Pound Per Day				
Emission Rate (lb/hour/unit)	**0.008360315**	**0.078749857**	**0.130534648**	**0.000178091**	**0.003380932**	**0.003110457**	**19.23574567**	
Total Emissions (lb)	2.475	23.310	38.638	0.053	1.001	0.921	5693.781	
				Tons Per Year				**CO2/MT/yr**
	0.452	4.254	7.051	0.010	0.183	0.168	1039.115	942.669

Option 2 Off-Road Equipment Emissions Worksheet: Yard Trucks (Diesel)

OFFROAD2021 [1]

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
Los Angeles (SC)	2027	CHE - Port Yard Tractor	Aggregated	175	Diesel	0.006596767	0.039284317	0.095528554	0.000147598	0.000983815	0.000909149	15.6149206	507902.9407	181982.0972	220.3524551

Notes

[1] OFFROAD2021 (v1.0.4)

Calculated Emission Rates

Total Annual Hours	181982.0972	**Conversion Rate**	
Total Population	220.3524551	Grams/Pound	453.592
Total Hours/Unit	825.8682531		
Hours/Unit/Day	2.262652748		

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2
Tons/Day	0.006596767	0.039284317	0.095528554	0.000147598	0.000983815	0.000909149	15.6149206
Pounds/Day	13.193534	78.568634	191.057108	0.29519688	1.9676304	1.8182978	31229.8412
lbs/Day/Unit	***0.059874686***	***0.356558923***	***0.867052323***	***0.001339658***	***0.008929469***	***0.00825177***	***141.7267676***
lbs/hour/unit	0.026462163	0.157584465	0.383201675	0.000592074	0.00394646	0.003646945	62.63743639
lbs/min/unit	0.000441036	0.002626408	0.006386695	9.8679E-06	6.57743E-05	6.07824E-05	1.043957273
grams/min/unit	0.200050424	1.191317543	2.896953568	0.004476	0.029834713	0.027570418	473.5306675
grams/sec/unit	0.003334174	0.019855292	0.048282559	7.46E-05	0.000497245	0.000459507	7.892177791

Project Emissions

Total Building Square Feet	704,070	
Number of Yard Trucks[1]		

Truck Type	Trucks/Day
Diesel Powered	3

Daily Hours of Operation	8	hr/unit/day
Total Daily Op Hours	20	hours/day
Days Per Year	365	days/year

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2	
				Pound Per Day				
Emission Rate (lb/hour/unit)	**0.026462163**	**0.157584465**	**0.383201675**	**0.000592074**	**0.00394646**	**0.003646945**	**62.63743639**	
Total Emissions (lb)	0.537	3.195	7.770	0.012	0.080	0.074	1270.113	
				Tons Per Year				**CO2/MT/yr**
	0.098	0.583	1.418	0.002	0.015	0.013	231.796	210.281

Notes

[1] 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.

Option 2 Off-Road Equipment Emissions Worksheet: Generator

OFFROAD2021 [1]

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
Los Angeles (SC)	2027	Light Commercial - Misc - Generator Sets	Aggregate	50	Diesel	0.010714357	0.108946709	0.12296665	0.000241685	0.002289275	0.002106133	19.1414545	622609.7	446062.85	1321.37

Notes

[1] OFFROAD2021 (v1.0.4)

Calculated Emission Rates

Total Annual Hours	446062.85	**Conversion Rate**	
Total Population	1321.37	Grams/Pound	453.592
Total Hours/Unit	337.5760385		
Hours/Unit/Day	0.924865859		

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2
Tons/Day	0.010714357	0.108946709	0.12296665	0.000241685	0.002289275	0.002106133	19.1414545
Pounds/Day	21.42871464	217.8934184	245.9333006	0.483370531	4.57854924	4.212265301	38282.909
lbs/Day/Unit	***0.016217043***	***0.164899626***	***0.186119937***	***0.00036581***	***0.003465002***	***0.003187802***	***28.97213422***
lbs/hour/unit	0.017534482	0.178295722	0.201239926	0.000395528	0.003746491	0.003446772	31.32576897
lbs/min/unit	0.000292241	0.002971595	0.003353999	6.59213E-06	6.24415E-05	5.74462E-05	0.522096149
grams/min/unit	0.132558343	1.347891882	1.521347005	0.002990137	0.028322973	0.026057135	236.8186366
grams/sec/unit	0.002209306	0.022464865	0.025355783	4.98356E-05	0.00047205	0.000434286	3.946977277

Project Emissions

Number of Generators [1]

Fuel Type	Generators/Day
Diesel	3

Daily Hours of Operation	0.14	hr/unit/day
Total Daily Op Hours	0.41	hours/day
Days Per Year	365	days/year (Hours of Op)

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2	
			Pound Per Day					
Emission Rate (lb/hour/unit)	**0.017534482**	**0.178295722**	**0.201239926**	**0.000395528**	**0.003746491**	**0.003446772**	**31.32576897**	
Total Emissions (lb)	0.007	0.073	0.083	0.000	0.002	0.001	12.874	
			Tons Per Year					**CO2/MT/yr**
	0.001	0.013	0.015	0.000	0.000	0.000	2.349	2.131

Notes

[1] Assumes that generators would operate for 50 hours per year for emergency testing and maintenance.

Option 2 Off-Road Equipment Emissions Worksheet: Diesel Pumps

OFFROAD2021 [1]

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
Los Angeles (SC)	2027	Light Commercial - Misc - Pumps	Aggregate	50	Diesel	0.006926783	0.064622179	0.075538659	0.000141455	0.001429023	0.001314701	11.21266092	364711.65	232848.1	578.51

Notes

[1] OFFROAD2021 (v1.0.4)

Calculated Emission Rates

Total Annual Hours	232848.1	**Conversion Rate**	
Total Population	578.51	Grams/Pound	453.592
Total Hours/Unit	402.4962403		
Hours/Unit/Day	1.102729426		

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2
Tons/Day	0.006926783	0.064622179	0.075538659	0.000141455	0.001429023	0.001314701	11.21266092
Pounds/Day	13.85356537	129.2443588	151.0773171	0.282910026	2.858045772	2.62940211	22425.32185
lbs/Day/Unit	***0.023946976***	***0.223409031***	***0.261149016***	***0.000489032***	***0.004940357***	***0.004545128***	***38.76393122***
lbs/hour/unit	0.021716095	0.202596418	0.236820574	0.000443474	0.004480117	0.004121708	35.15271318
lbs/min/unit	0.000361935	0.003376607	0.00394701	7.39124E-06	7.46686E-05	6.86951E-05	0.585878553
grams/min/unit	0.164170779	1.531601906	1.790331965	0.003352607	0.033869086	0.031159559	265.7498246
grams/sec/unit	0.00273618	0.025526698	0.029838866	5.58768E-05	0.000564485	0.000519326	4.429163744

Project Emissions

Number of Pumps [1]

Fuel Type	Diesel Pumps/Day
Diesel	1

Daily Hours of Operation[1]	0.14	hr/unit/day
Total Daily Op Hours	0.14	hours/day
Days Per Year	365	days/year (Hours of Op)

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2	
			Pound Per Day					
Emission Rate (lb/hour/unit)	**0.021716095**	**0.202596418**	**0.236820574**	**0.000443474**	**0.004480117**	**0.004121708**	**35.15271318**	
Total Emissions (lb)	0.003	0.028	0.032	0.000	0.001	0.001	4.815	
			Tons Per Year					**CO2/MT/yr**
	0.001	0.005	0.006	0.000	0.000	0.000	0.879	0.797

Notes

[1] Assumes that diesel pumps would operate for 50 hours per year for emergency testing and maintenance.

calendar_year	season_month	sub_area	vehicle_class	fuel	temperature	relative_humidity	process	speed_time	pollutant	emission_rate
2027	Annual	Los Angeles (SC)	HHDT	Dsl	66	80	IDLEX		HC	1.868418971
2027	Annual	Los Angeles (SC)	HHDT	Dsl	66	80	IDLEX		CO	34.60912551
2027	Annual	Los Angeles (SC)	HHDT	Dsl	66	80	IDLEX		NOx	27.31510503
2027	Annual	Los Angeles (SC)	HHDT	Dsl	66	80	IDLEX		SOx	0.050269304
2027	Annual	Los Angeles (SC)	HHDT	Dsl	66	80	IDLEX		PM	0.014030934
2027	Annual	Los Angeles (SC)	HHDT	Dsl	66	80	IDLEX		TOG	2.693699631
2027	Annual	Los Angeles (SC)	HHDT	Dsl	66	80	IDLEX		ROG	2.366165785
2027	Annual	Los Angeles (SC)	HHDT	Dsl	66	80	IDLEX		CO2	5269.060905
2027	Annual	Los Angeles (SC)	HHDT	Dsl	66	80	IDLEX		CH4	0.109902272
2027	Annual	Los Angeles (SC)	HHDT	Dsl	66	80	IDLEX		PM10	0.013946749
2027	Annual	Los Angeles (SC)	HHDT	Dsl	66	80	IDLEX		PM2_5	0.013343419

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 2021, 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
Los Angeles (SC)	2027	HHDT	2.36616578	34.60912551	27.31510503	5269.060905	0.109902272	0.0139467	0.01334342	0.050269304

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
Los Angeles (SC)	2027	HHDT	0.005	0.076	0.060	11.616	0.000	0.000	0.000	0.000

Onsite Truck Idling Emissions (Option 1)

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	Idling per hour
HHDT	554	277	30	0.5

Criteria Air Pollutants, Maximum Summer/Winter

lbs/day

Truck Idling	ROG	NOx	CO	SO2	PM10	PM2.5
2027	0.72248	8.34039	10.56755	0.01535	0.00426	0.00407

Onsite Truck Idling Emissions (Option 2)

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	Idling per hour
HHDT	418	209	30	0.5

Criteria Air Pollutants, Maximum Summer/Winter

lbs/day

Truck Idling	ROG	NOx	CO	SO2	PM10	PM2.5
2027	0.54512	6.29293	7.97335	0.01158	0.00321	0.00307

CalEEMod Outputs

Construction (Option 1)

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Irwindale Gateway Project Construction (Option 1)
Construction Start Date	7/15/2024
Lead Agency	
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.8
Precipitation (days)	22.4
Location	13620 Live Oak Ln, Irwindale, CA 91706, USA
County	Los Angeles-South Coast
City	Irwindale
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4900
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.12

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq	Landscape Area (	Special Landsc	Population	Description
Unrefrigerated Warehouse-No Rail	998	1000sqft	22.6	997796	0	0		
Parking Lot	811	1000sqft	18.6	0	0	0		
Other Non-Asphalt Surfaces	310	1000sqft	7.12	0	310164	0		
Other Non-Asphalt Surfaces	201	1000sqft	4.61	0	0	0		

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-13	Use Low-VOC Paints for Construction

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	9.45	89.6	56.7	95.2	0.16	2.1	13.3	15.2	1.89	3.76	5.52		26464	26464	1.1	1.17	44.7	26881
Mit.	4.34	7.61	19.8	111	0.16	0.38	13.3	13.6	0.33	3.76	4.1		26568	26568	1.1	1.17	44.7	26986
% Reduced	54	91.5	65.2	−16.8	−0.91	81.8		10.3	82.4		25.8		−0.39	−0.39	−0.38			−0.39
Daily, Winter (Max)																		
Unmit.	8.97	12.2	57.2	82.5	0.16	2.1	11.1	13.2	1.89	3.26	5.16		24197	24197	1.02	1.16	1.16	24569
Mit.	3.87	4.5	19.7	98.3	0.16	0.38	11.1	11.5	0.33	3.26	3.6		24301	24301	1.02	1.16	1.16	24673
% Reduced	56.8	63.1	65.6	−19.2	−0.91	81.8		13	82.4		30.3		−0.43	−0.43	−0.41			−0.42
Average Daily (Max)																		
Unmit.	1.88	13.9	9.95	21	0.03	0.26	3.59	3.85	0.24	0.9	1.14		6680	6680	0.21	0.43	6.35	6819
Mit.	1.27	1.64	5.6	22.9	0.03	0.08	3.59	3.67	0.07	0.9	0.98		6726	6726	0.21	0.43	6.35	6865
% Reduced	32.5	88.2	43.7	−8.94		71		4.79	69.6		14.6		−0.69	−0.69	−0.65			−0.68
Annual (Max)																		
Unmit.	0.34	2.53	1.82	3.83	0.01	0.05	0.66	0.7	0.04	0.16	0.21		1106	1106	0.03	0.07	1.05	1129
Mit.	0.23	0.3	1.02	4.17	0.01	0.01	0.66	0.67	0.01	0.16	0.18		1114	1114	0.04	0.07	1.05	1137
% Reduced	32.5	88.2	43.7	−8.94	−1.96	71		4.79	69.6		14.6		−0.69	−0.69	−0.65	−0.09		−0.68

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2024	5.96	4.94	33.2	62.9	0.09	1.22	7.12	8.34	1.13	1.73	2.86		17450	17450	0.71	1.01	39	17807
2025	5.7	12.2	27.3	68.9	0.08	0.88	9.26	10.1	0.78	2.23	3.01		17551	17551	0.73	1.05	44.7	17925
2026	8.98	7.44	56.7	86.7	0.16	2.1	11.1	13.2	1.89	3.26	5.16		24514	24514	1.01	1.16	36.8	24922
2027	9.45	89.6	54.7	95.2	0.16	1.91	13.3	15.2	1.76	3.76	5.52		26464	26464	1.1	1.17	40.4	26881
Daily - Winter (Max)																		
2024	3.92	3.21	20.1	43	0.06	0.57	6.88	7.45	0.53	1.67	2.2		13284	13284	0.57	0.95	0.98	13583
2025	5.67	12.2	27.8	62.6	0.08	0.88	9.26	10.1	0.78	2.23	3.01		17119	17119	0.74	1.06	1.16	17455
2026	8.97	7.42	57.2	82.5	0.16	2.1	11.1	13.2	1.89	3.26	5.16		24197	24197	1.02	1.16	0.95	24569
2027	3.22	2.64	16.8	36.9	0.06	0.37	6.88	7.25	0.35	1.67	2.02		12680	12680	0.38	0.91	0.79	12961
Average Daily																		
2024	1.42	1.17	7.52	15.6	0.02	0.23	2.27	2.5	0.21	0.55	0.76		4679	4679	0.2	0.32	5.43	4785
2025	1.5	2.36	7.51	17	0.02	0.22	2.56	2.78	0.19	0.62	0.81		4889	4889	0.21	0.32	5.58	4996
2026	1.07	0.87	6.25	11.2	0.02	0.2	1.7	1.9	0.18	0.45	0.62		3452	3452	0.15	0.21	3.12	3523
2027	1.88	13.9	9.95	21	0.03	0.26	3.59	3.85	0.24	0.9	1.14		6680	6680	0.2	0.43	6.35	6819
Annual																		
2024	0.26	0.21	1.37	2.85	< 0.005	0.04	0.41	0.46	0.04	0.1	0.14		775	775	0.03	0.05	0.9	792
2025	0.27	0.43	1.37	3.1	< 0.005	0.04	0.47	0.51	0.04	0.11	0.15		809	809	0.03	0.05	0.92	827
2026	0.19	0.16	1.14	2.04	< 0.005	0.04	0.31	0.35	0.03	0.08	0.11		572	572	0.02	0.04	0.52	583
2027	0.34	2.53	1.82	3.83	0.01	0.05	0.66	0.7	0.04	0.16	0.21		1106	1106	0.03	0.07	1.05	1129

2.3. Construction Emissions by Year, Mitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2024	3.41	2.89	15	70.6	0.09	0.25	7.12	7.37	0.24	1.73	1.98		17554	17554	0.72	1.01	39	17911
2025	3.9	4.53	14.7	71.7	0.08	0.21	9.26	9.48	0.17	2.23	2.4		17654	17654	0.74	1.05	44.7	18029
2026	3.77	3.26	19.2	103	0.16	0.38	11.1	11.5	0.33	3.26	3.6		24618	24618	1.01	1.16	36.8	25026
2027	4.34	7.61	19.8	111	0.16	0.34	13.3	13.6	0.33	3.76	4.1		26568	26568	1.1	1.17	40.4	26986
Daily - Winter (Max)																		
2024	2.95	2.44	12.5	45.2	0.06	0.18	6.88	7.06	0.18	1.67	1.85		13388	13388	0.57	0.96	0.98	13688
2025	3.87	4.5	15.2	65.3	0.08	0.21	9.26	9.48	0.17	2.23	2.4		17223	17223	0.75	1.06	1.16	17559
2026	3.76	3.24	19.7	98.3	0.16	0.38	11.1	11.5	0.33	3.26	3.6		24301	24301	1.02	1.16	0.95	24673
2027	2.46	2.03	11	39.3	0.06	0.14	6.88	7.02	0.14	1.67	1.81		12784	12784	0.39	0.91	0.79	13065
Average Daily																		
2024	1.01	0.83	4.36	16.7	0.02	0.06	2.27	2.34	0.06	0.55	0.61		4713	4713	0.2	0.32	5.43	4819
2025	1.07	1.08	4.42	17.8	0.02	0.06	2.56	2.62	0.05	0.62	0.67		4923	4923	0.21	0.32	5.58	5030
2026	0.62	0.52	2.96	12.5	0.02	0.05	1.7	1.75	0.04	0.45	0.49		3474	3474	0.15	0.21	3.12	3545
2027	1.27	1.64	5.6	22.9	0.03	0.08	3.59	3.67	0.07	0.9	0.98		6726	6726	0.2	0.43	6.35	6865
Annual																		
2024	0.18	0.15	0.8	3.05	< 0.005	0.01	0.41	0.43	0.01	0.1	0.11		780	780	0.03	0.05	0.9	798
2025	0.2	0.2	0.81	3.25	< 0.005	0.01	0.47	0.48	0.01	0.11	0.12		815	815	0.04	0.05	0.92	833
2026	0.11	0.09	0.54	2.29	< 0.005	0.01	0.31	0.32	0.01	0.08	0.09		575	575	0.02	0.04	0.52	587
2027	0.23	0.3	1.02	4.17	0.01	0.01	0.66	0.67	0.01	0.16	0.18		1114	1114	0.03	0.07	1.05	1137

3. Construction Emissions Details

3.1. Grading (2026) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	3.62	3.04	27.2	27.6	0.06	1.12		1.12	1.03		1.03		6599	6599	0.27	0.05		6621
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	3.62	3.04	27.2	27.6	0.06	1.12		1.12	1.03		1.03		6599	6599	0.27	0.05		6621
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.23	0.19	1.72	1.74	< 0.005	0.07		0.07	0.07		0.07		416	416	0.02	< 0.005		417
Dust From Material Movement							0.23	0.23		0.09	0.09							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.04	0.04	0.31	0.32	< 0.005	0.01		0.01	0.01		0.01		68.8	68.8	< 0.005	< 0.005		69.1
Dust From Material Movement							0.04	0.04		0.02	0.02							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.08	0.07	0.08	1.29	0	0	0.26	0.26	0	0.06	0.06		271	271	0.01	0.01	0.92	275
Vendor	0.05	0.02	0.69	0.33	< 0.005	0.01	0.17	0.18	< 0.005	0.05	0.05		624	624	0.03	0.09	1.69	652
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.08	0.07	0.09	1.1	0	0	0.26	0.26	0	0.06	0.06		257	257	0.01	0.01	0.02	260
Vendor	0.04	0.02	0.72	0.34	< 0.005	0.01	0.17	0.18	< 0.005	0.05	0.05		624	624	0.03	0.09	0.04	651
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	< 0.005	0.01	0.07	0	0	0.02	0.02	0	< 0.005	< 0.005		16.4	16.4	< 0.005	< 0.005	0.02	16.6
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		39.3	39.3	< 0.005	0.01	0.05	41.1
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.72	2.72	< 0.005	< 0.005	< 0.005	2.76
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		6.51	6.51	< 0.005	< 0.005	0.01	6.8
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.2. Grading (2026) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.64	0.64	4.43	35.3	0.06	0.12		0.12	0.12		0.12		6599	6599	0.27	0.05		6621
Dust From Material Movement							3.59	3.59		1.42	1.42							

Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.64	0.64	4.43	35.3	0.06	0.12		0.12	0.12		0.12		6599	6599	0.27	0.05		6621
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.04	0.04	0.28	2.23	< 0.005	0.01		0.01	0.01		0.01		416	416	0.02	< 0.005		417
Dust From Material Movement							0.23	0.23		0.09	0.09							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.01	0.01	0.05	0.41	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		68.8	68.8	< 0.005	< 0.005		69.1
Dust From Material Movement							0.04	0.04		0.02	0.02							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.08	0.07	0.08	1.29	0	0	0.26	0.26	0	0.06	0.06		271	271	0.01	0.01	0.92	275
Vendor	0.05	0.02	0.69	0.33	< 0.005	0.01	0.17	0.18	< 0.005	0.05	0.05		624	624	0.03	0.09	1.69	652
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.08	0.07	0.09	1.1	0	0	0.26	0.26	0	0.06	0.06		257	257	0.01	0.01	0.02	260
Vendor	0.04	0.02	0.72	0.34	< 0.005	0.01	0.17	0.18	< 0.005	0.05	0.05		624	624	0.03	0.09	0.04	651
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	< 0.005	0.01	0.07	0	0	0.02	0.02	0	< 0.005	< 0.005		16.4	16.4	< 0.005	< 0.005	0.02	16.6
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		39.3	39.3	< 0.005	0.01	0.05	41.1
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.72	2.72	< 0.005	< 0.005	< 0.005	2.76
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		6.51	6.51	< 0.005	< 0.005	0.01	6.8
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.3. Grading (2027) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	3.51	2.95	25.6	27.3	0.06	1.04		1.04	0.96		0.96		6598	6598	0.27	0.05		6621
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road Equipment	0.21	0.18	1.54	1.64	< 0.005	0.06		0.06	0.06		0.06		398	398	0.02	< 0.005		399
Dust From Material Movement							0.22	0.22		0.09	0.09							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.04	0.03	0.28	0.3	< 0.005	0.01		0.01	0.01		0.01		65.8	65.8	< 0.005	< 0.005		66.1
Dust From Material Movement							0.04	0.04		0.02	0.02							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.08	0.07	0.07	1.2	0	0	0.26	0.26	0	0.06	0.06		266	266	0.01	0.01	0.83	270
Vendor	0.04	0.02	0.66	0.31	< 0.005	< 0.005	0.17	0.18	< 0.005	0.05	0.05		611	611	0.03	0.08	1.59	639
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	< 0.005	< 0.005	0.01	0.06	0	0	0.02	0.02	0	< 0.005	< 0.005		15.4	15.4	< 0.005	< 0.005	0.02	15.6
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		36.9	36.9	< 0.005	0.01	0.04	38.5
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.55	2.55	< 0.005	< 0.005	< 0.005	2.58
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		6.1	6.1	< 0.005	< 0.005	0.01	6.37
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.4. Grading (2027) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.64	0.64	4.43	35.3	0.06	0.12		0.12	0.12		0.12		6598	6598	0.27	0.05		6621
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road Equipment	0.04	0.04	0.27	2.13	< 0.005	0.01		0.01	0.01		0.01		398	398	0.02	< 0.005		399
Dust From Material Movement							0.22	0.22		0.09	0.09							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.01	0.01	0.05	0.39	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		65.8	65.8	< 0.005	< 0.005		66.1
Dust From Material Movement							0.04	0.04		0.02	0.02							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.08	0.07	0.07	1.2	0	0	0.26	0.26	0	0.06	0.06		266	266	0.01	0.01	0.83	270
Vendor	0.04	0.02	0.66	0.31	< 0.005	< 0.005	0.17	0.18	< 0.005	0.05	0.05		611	611	0.03	0.08	1.59	639
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	< 0.005	< 0.005	0.01	0.06	0	0	0.02	0.02	0	< 0.005	< 0.005		15.4	15.4	< 0.005	< 0.005	0.02	15.6
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		36.9	36.9	< 0.005	0.01	0.04	38.5
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.55	2.55	< 0.005	< 0.005	< 0.005	2.58
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		6.1	6.1	< 0.005	< 0.005	0.01	6.37
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.5. Building Construction (2024) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	1.44	1.2	11.2	13.1	0.02	0.5		0.5	0.46		0.46		2398	2398	0.1	0.02		2406
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	1.44	1.2	11.2	13.1	0.02	0.5		0.5	0.46		0.46		2398	2398	0.1	0.02		2406
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.48	0.4	3.73	4.36	0.01	0.17		0.17	0.15		0.15		798	798	0.03	0.01		800
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.09	0.07	0.68	0.8	< 0.005	0.03		0.03	0.03		0.03		132	132	0.01	< 0.005		133
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	2.09	1.88	2	31.6	0	0	5.48	5.48	0	1.28	1.28		5917	5917	0.24	0.2	23.3	6006
Vendor	0.42	0.16	6.21	3.05	0.04	0.07	1.4	1.47	0.07	0.39	0.46		5276	5276	0.22	0.73	14.3	5512
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	2.07	1.85	2.37	26.7	0	0	5.48	5.48	0	1.28	1.28		5608	5608	0.25	0.21	0.61	5677
Vendor	0.41	0.16	6.46	3.12	0.04	0.07	1.4	1.47	0.07	0.39	0.46		5278	5278	0.22	0.73	0.37	5501
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.69	0.61	0.79	9.35	0	0	1.8	1.8	0	0.42	0.42		1893	1893	0.08	0.07	3.35	1919
Vendor	0.14	0.05	2.17	1.03	0.01	0.02	0.46	0.48	0.02	0.13	0.15		1756	1756	0.07	0.24	2.05	1831
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.13	0.11	0.14	1.71	0	0	0.33	0.33	0	0.08	0.08		313	313	0.01	0.01	0.55	318
Vendor	0.03	0.01	0.4	0.19	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03		291	291	0.01	0.04	0.34	303
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.6. Building Construction (2024) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.47	0.43	3.63	15.4	0.02	0.11		0.11	0.1		0.1		2501	2501	0.1	0.02		2510
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.47	0.43	3.63	15.4	0.02	0.11		0.11	0.1		0.1		2501	2501	0.1	0.02		2510
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.16	0.14	1.21	5.11	0.01	0.04		0.04	0.03		0.03		832	832	0.03	0.01		835
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.03	0.03	0.22	0.93	< 0.005	0.01		0.01	0.01		0.01		138	138	0.01	< 0.005		138
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	2.09	1.88	2	31.6	0	0	5.48	5.48	0	1.28	1.28		5917	5917	0.24	0.2	23.3	6006
Vendor	0.42	0.16	6.21	3.05	0.04	0.07	1.4	1.47	0.07	0.39	0.46		5276	5276	0.22	0.73	14.3	5512

Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	2.07	1.85	2.37	26.7	0	0	5.48	5.48	0	1.28	1.28		5608	5608	0.25	0.21	0.61	5677
Vendor	0.41	0.16	6.46	3.12	0.04	0.07	1.4	1.47	0.07	0.39	0.46		5278	5278	0.22	0.73	0.37	5501
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.69	0.61	0.79	9.35	0	0	1.8	1.8	0	0.42	0.42		1893	1893	0.08	0.07	3.35	1919
Vendor	0.14	0.05	2.17	1.03	0.01	0.02	0.46	0.48	0.02	0.13	0.15		1756	1756	0.07	0.24	2.05	1831
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.13	0.11	0.14	1.71	0	0	0.33	0.33	0	0.08	0.08		313	313	0.01	0.01	0.55	318
Vendor	0.03	0.01	0.4	0.19	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03		291	291	0.01	0.04	0.34	303
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.7. Building Construction (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	1.35	1.13	10.4	13	0.02	0.43		0.43	0.4		0.4		2398	2398	0.1	0.02		2406
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	1.35	1.13	10.4	13	0.02	0.43		0.43	0.4		0.4		2398	2398	0.1	0.02		2406
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.44	0.37	3.39	4.24	0.01	0.14		0.14	0.13		0.13		779	779	0.03	0.01		782
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.08	0.07	0.62	0.77	< 0.005	0.03		0.03	0.02		0.02		129	129	0.01	< 0.005		129
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	2	1.8	1.82	29.2	0	0	5.48	5.48	0	1.28	1.28		5794	5794	0.24	0.2	21.2	5881
Vendor	0.37	0.15	5.9	2.88	0.04	0.07	1.4	1.47	0.04	0.39	0.42		5188	5188	0.22	0.73	14.2	5425
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	1.99	1.78	2.01	24.7	0	0	5.48	5.48	0	1.28	1.28		5492	5492	0.25	0.21	0.55	5561
Vendor	0.37	0.15	6.15	2.92	0.04	0.07	1.4	1.47	0.04	0.39	0.42		5191	5191	0.22	0.73	0.37	5413
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.64	0.57	0.71	8.43	0	0	1.75	1.75	0	0.41	0.41		1811	1811	0.08	0.06	2.98	1835
Vendor	0.12	0.05	2.01	0.94	0.01	0.02	0.45	0.47	0.01	0.12	0.14		1686	1686	0.07	0.24	2	1760
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.12	0.1	0.13	1.54	0	0	0.32	0.32	0	0.07	0.07		300	300	0.01	0.01	0.49	304
Vendor	0.02	0.01	0.37	0.17	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.02		279	279	0.01	0.04	0.33	291
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.8. Building Construction (2025) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.47	0.43	3.62	15.4	0.02	0.11		0.11	0.1		0.1		2502	2502	0.1	0.02		2510
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.47	0.43	3.62	15.4	0.02	0.11		0.11	0.1		0.1		2502	2502	0.1	0.02		2510
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.15	0.14	1.18	4.99	0.01	0.04		0.04	0.03		0.03		813	813	0.03	0.01		815
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.03	0.03	0.21	0.91	< 0.005	0.01		0.01	0.01		0.01		135	135	0.01	< 0.005		135
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	2	1.8	1.82	29.2	0	0	5.48	5.48	0	1.28	1.28		5794	5794	0.24	0.2	21.2	5881
Vendor	0.37	0.15	5.9	2.88	0.04	0.07	1.4	1.47	0.04	0.39	0.42		5188	5188	0.22	0.73	14.2	5425
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	1.99	1.78	2.01	24.7	0	0	5.48	5.48	0	1.28	1.28		5492	5492	0.25	0.21	0.55	5561
Vendor	0.37	0.15	6.15	2.92	0.04	0.07	1.4	1.47	0.04	0.39	0.42		5191	5191	0.22	0.73	0.37	5413
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.64	0.57	0.71	8.43	0	0	1.75	1.75	0	0.41	0.41		1811	1811	0.08	0.06	2.98	1835
Vendor	0.12	0.05	2.01	0.94	0.01	0.02	0.45	0.47	0.01	0.12	0.14		1686	1686	0.07	0.24	2	1760
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.12	0.1	0.13	1.54	0	0	0.32	0.32	0	0.07	0.07		300	300	0.01	0.01	0.49	304
Vendor	0.02	0.01	0.37	0.17	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.02		279	279	0.01	0.04	0.33	291
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.9. Building Construction (2026) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	1.28	1.07	9.85	13	0.02	0.38		0.38	0.35		0.35		2397	2397	0.1	0.02		2405
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	1.28	1.07	9.85	13	0.02	0.38		0.38	0.35		0.35		2397	2397	0.1	0.02		2405
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.27	0.23	2.08	2.74	< 0.005	0.08		0.08	0.07		0.07		507	507	0.02	< 0.005		508
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.05	0.04	0.38	0.5	< 0.005	0.01		0.01	0.01		0.01		83.9	83.9	< 0.005	< 0.005		84.2
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	1.74	1.54	1.63	27.1	0	0	5.48	5.48	0	1.28	1.28		5678	5678	0.24	0.2	19.2	5762
Vendor	0.37	0.15	5.62	2.72	0.04	0.07	1.4	1.47	0.04	0.39	0.42		5099	5099	0.21	0.73	13.8	5335
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	1.74	1.53	1.82	23.1	0	0	5.48	5.48	0	1.28	1.28		5383	5383	0.24	0.2	0.5	5449
Vendor	0.36	0.15	5.88	2.78	0.04	0.07	1.4	1.47	0.04	0.39	0.42		5101	5101	0.21	0.73	0.36	5324
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.37	0.32	0.42	5.11	0	0	1.14	1.14	0	0.27	0.27		1154	1154	0.05	0.04	1.76	1170
Vendor	0.08	0.03	1.25	0.58	0.01	0.02	0.29	0.31	0.01	0.08	0.09		1078	1078	0.04	0.15	1.26	1126
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.07	0.06	0.08	0.93	0	0	0.21	0.21	0	0.05	0.05		191	191	0.01	0.01	0.29	194
Vendor	0.01	0.01	0.23	0.11	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02		178	178	0.01	0.03	0.21	186
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.10. Building Construction (2026) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.47	0.43	3.61	15.3	0.02	0.11		0.11	0.1		0.1		2501	2501	0.1	0.02		2510
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.47	0.43	3.61	15.3	0.02	0.11		0.11	0.1		0.1		2501	2501	0.1	0.02		2510
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.1	0.09	0.76	3.24	0.01	0.02		0.02	0.02		0.02		529	529	0.02	< 0.005		530
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.02	0.02	0.14	0.59	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		87.5	87.5	< 0.005	< 0.005		87.8
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	1.74	1.54	1.63	27.1	0	0	5.48	5.48	0	1.28	1.28		5678	5678	0.24	0.2	19.2	5762
Vendor	0.37	0.15	5.62	2.72	0.04	0.07	1.4	1.47	0.04	0.39	0.42		5099	5099	0.21	0.73	13.8	5335
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	1.74	1.53	1.82	23.1	0	0	5.48	5.48	0	1.28	1.28		5383	5383	0.24	0.2	0.5	5449
Vendor	0.36	0.15	5.88	2.78	0.04	0.07	1.4	1.47	0.04	0.39	0.42		5101	5101	0.21	0.73	0.36	5324
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.37	0.32	0.42	5.11	0	0	1.14	1.14	0	0.27	0.27		1154	1154	0.05	0.04	1.76	1170
Vendor	0.08	0.03	1.25	0.58	0.01	0.02	0.29	0.31	0.01	0.08	0.09		1078	1078	0.04	0.15	1.26	1126
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.07	0.06	0.08	0.93	0	0	0.21	0.21	0	0.05	0.05		191	191	0.01	0.01	0.29	194
Vendor	0.01	0.01	0.23	0.11	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02		178	178	0.01	0.03	0.21	186
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.11. Building Construction (2027) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34		0.34	0.31		0.31		2397	2397	0.1	0.02		2405
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34		0.34	0.31		0.31		2397	2397	0.1	0.02		2405
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.55	0.46	4.17	5.75	0.01	0.15		0.15	0.14		0.14		1065	1065	0.04	0.01		1069
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.1	0.08	0.76	1.05	< 0.005	0.03		0.03	0.03		0.03		176	176	0.01	< 0.005		177
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	1.69	1.49	1.45	25.2	0	0	5.48	5.48	0	1.28	1.28		5569	5569	0.24	0.2	17.4	5652
Vendor	0.33	0.15	5.38	2.56	0.04	0.04	1.4	1.44	0.04	0.39	0.42		5000	5000	0.21	0.69	13	5224
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	1.67	1.46	1.81	21.3	0	0	5.48	5.48	0	1.28	1.28		5280	5280	0.07	0.2	0.45	5341
Vendor	0.32	0.15	5.6	2.62	0.04	0.04	1.4	1.44	0.04	0.39	0.42		5003	5003	0.21	0.69	0.34	5214
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.74	0.65	0.8	9.96	0	0	2.4	2.4	0	0.56	0.56		2380	2380	0.03	0.09	3.32	2411
Vendor	0.15	0.07	2.5	1.15	0.02	0.02	0.61	0.63	0.02	0.17	0.19		2222	2222	0.09	0.31	2.5	2318
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.14	0.12	0.15	1.82	0	0	0.44	0.44	0	0.1	0.1		394	394	0.01	0.01	0.55	399
Vendor	0.03	0.01	0.46	0.21	< 0.005	< 0.005	0.11	0.12	< 0.005	0.03	0.03		368	368	0.02	0.05	0.41	384
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.12. Building Construction (2027) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.47	0.43	3.6	15.3	0.02	0.11		0.11	0.1		0.1		2501	2501	0.1	0.02		2510
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.47	0.43	3.6	15.3	0.02	0.11		0.11	0.1		0.1		2501	2501	0.1	0.02		2510
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.21	0.19	1.6	6.82	0.01	0.05		0.05	0.04		0.04		1111	1111	0.05	0.01		1115
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.04	0.03	0.29	1.24	< 0.005	0.01		0.01	0.01		0.01		184	184	0.01	< 0.005		185
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	1.69	1.49	1.45	25.2	0	0	5.48	5.48	0	1.28	1.28		5569	5569	0.24	0.2	17.4	5652
Vendor	0.33	0.15	5.38	2.56	0.04	0.04	1.4	1.44	0.04	0.39	0.42		5000	5000	0.21	0.69	13	5224
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	1.67	1.46	1.81	21.3	0	0	5.48	5.48	0	1.28	1.28		5280	5280	0.07	0.2	0.45	5341
Vendor	0.32	0.15	5.6	2.62	0.04	0.04	1.4	1.44	0.04	0.39	0.42		5003	5003	0.21	0.69	0.34	5214
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.74	0.65	0.8	9.96	0	0	2.4	2.4	0	0.56	0.56		2380	2380	0.03	0.09	3.32	2411
Vendor	0.15	0.07	2.5	1.15	0.02	0.02	0.61	0.63	0.02	0.17	0.19		2222	2222	0.09	0.31	2.5	2318
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.14	0.12	0.15	1.82	0	0	0.44	0.44	0	0.1	0.1		394	394	0.01	0.01	0.55	399
Vendor	0.03	0.01	0.46	0.21	< 0.005	< 0.005	0.11	0.12	< 0.005	0.03	0.03		368	368	0.02	0.05	0.41	384
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.13. Paving (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.95	0.8	7.45	9.98	0.01	0.35		0.35	0.32		0.32		1511	1511	0.06	0.01		1517
Paving		0.89																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.95	0.8	7.45	9.98	0.01	0.35		0.35	0.32		0.32		1511	1511	0.06	0.01		1517
Paving		0.89																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.14	0.12	1.12	1.5	< 0.005	0.05		0.05	0.05		0.05		228	228	0.01	< 0.005		229
Paving		0.13																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.03	0.02	0.2	0.27	< 0.005	0.01		0.01	0.01		0.01		37.7	37.7	< 0.005	< 0.005		37.8
Paving		0.02																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.07	0.06	0.06	1.04	0	0	0.2	0.2	0	0.05	0.05		207	207	0.01	0.01	0.76	210
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.07	0.06	0.07	0.88	0	0	0.2	0.2	0	0.05	0.05		197	197	0.01	0.01	0.02	199
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	0.01	0.14	0	0	0.03	0.03	0	0.01	0.01		30.1	30.1	< 0.005	< 0.005	0.05	30.5
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.03	0	0	0.01	0.01	0	< 0.005	< 0.005		4.98	4.98	< 0.005	< 0.005	0.01	5.04
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.14. Paving (2025) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.16	0.16	1.93	10.6	0.01	0.03		0.03	0.03		0.03		1511	1511	0.06	0.01		1517
Paving		0.89																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.16	0.16	1.93	10.6	0.01	0.03		0.03	0.03		0.03		1511	1511	0.06	0.01		1517
Paving		0.89																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.02	0.02	0.29	1.6	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		228	228	0.01	< 0.005		229
Paving		0.13																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	0.05	0.29	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		37.7	37.7	< 0.005	< 0.005		37.8
Paving		0.02																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.07	0.06	0.06	1.04	0	0	0.2	0.2	0	0.05	0.05		207	207	0.01	0.01	0.76	210
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.07	0.06	0.07	0.88	0	0	0.2	0.2	0	0.05	0.05		197	197	0.01	0.01	0.02	199
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	0.01	0.14	0	0	0.03	0.03	0	0.01	0.01		30.1	30.1	< 0.005	< 0.005	0.05	30.5
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.03	0	0	0.01	0.01	0	< 0.005	< 0.005		4.98	4.98	< 0.005	< 0.005	0.01	5.04
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.15. Architectural Coating (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		

Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03		0.03	0.03		0.03		134	134	0.01	< 0.005		134
Architectural Coatings		6.54																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03		0.03	0.03		0.03		134	134	0.01	< 0.005		134
Architectural Coatings		6.54																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.02	0.02	0.13	0.17	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		20.1	20.1	< 0.005	< 0.005		20.2
Architectural Coatings		0.99																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		3.33	3.33	< 0.005	< 0.005		3.34
Architectural Coatings		0.18																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.8	0.72	0.73	11.7	0	0	2.19	2.19	0	0.51	0.51		2318	2318	0.1	0.08	8.49	2352
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.79	0.71	0.81	9.89	0	0	2.19	2.19	0	0.51	0.51		2197	2197	0.1	0.08	0.22	2224
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.12	0.11	0.13	1.56	0	0	0.33	0.33	0	0.08	0.08		336	336	0.02	0.01	0.55	340
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.02	0.02	0.02	0.29	0	0	0.06	0.06	0	0.01	0.01		55.6	55.6	< 0.005	< 0.005	0.09	56.4
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.16. Architectural Coating (2025) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.02	0.02	0.65	0.96	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		134	134	0.01	< 0.005		134
Architectural Coatings		0.3																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.02	0.02	0.65	0.96	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		134	134	0.01	< 0.005		134
Architectural Coatings		0.3																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	< 0.005	< 0.005	0.1	0.15	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		20.1	20.1	< 0.005	< 0.005		20.2
Architectural Coatings		0.04																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		3.33	3.33	< 0.005	< 0.005		3.34
Architectural Coatings		0.01																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.8	0.72	0.73	11.7	0	0	2.19	2.19	0	0.51	0.51		2318	2318	0.1	0.08	8.49	2352
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.79	0.71	0.81	9.89	0	0	2.19	2.19	0	0.51	0.51		2197	2197	0.1	0.08	0.22	2224
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.12	0.11	0.13	1.56	0	0	0.33	0.33	0	0.08	0.08		336	336	0.02	0.01	0.55	340
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.02	0.02	0.02	0.29	0	0	0.06	0.06	0	0.01	0.01		55.6	55.6	< 0.005	< 0.005	0.09	56.4
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.17. Architectural Coating (2027) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.14	0.11	0.83	1.13	< 0.005	0.02		0.02	0.02		0.02		134	134	0.01	< 0.005		134
Architectural Coatings		81.7																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road Equipment	0.02	0.02	0.13	0.17	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		20.1	20.1	< 0.005	< 0.005		20.2
Architectural Coatings		12.3																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		3.33	3.33	< 0.005	< 0.005		3.34
Architectural Coatings		2.25																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.68	0.6	0.58	10.1	0	0	2.2	2.2	0	0.51	0.51		2233	2233	0.09	0.08	6.96	2266
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	0.1	0.09	0.11	1.35	0	0	0.33	0.33	0	0.08	0.08		324	324	< 0.005	0.01	0.45	328
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.02	0.02	0.02	0.25	0	0	0.06	0.06	0	0.01	0.01		53.6	53.6	< 0.005	< 0.005	0.07	54.3
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.18. Architectural Coating (2027) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.02	0.02	0.65	0.96	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		134	134	0.01	< 0.005		134
Architectural Coatings		3.8																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road Equipment	< 0.005	< 0.005	0.1	0.15	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		20.1	20.1	< 0.005	< 0.005		20.2
Architectural Coatings		0.57																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		3.33	3.33	< 0.005	< 0.005		3.34
Architectural Coatings		0.1																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.68	0.6	0.58	10.1	0	0	2.2	2.2	0	0.51	0.51		2233	2233	0.09	0.08	6.96	2266
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	0.1	0.09	0.11	1.35	0	0	0.33	0.33	0	0.08	0.08		324	324	< 0.005	0.01	0.45	328
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.02	0.02	0.02	0.25	0	0	0.06	0.06	0	0.01	0.01		53.6	53.6	< 0.005	< 0.005	0.07	54.3
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.19. Trenching (2024) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	1.93	1.62	13.5	13.8	0.03	0.64		0.64	0.59		0.59		3454	3454	0.14	0.03		3466
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road Equipment	0.12	0.1	0.81	0.83	< 0.005	0.04		0.04	0.04		0.04		208	208	0.01	< 0.005		209
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.02	0.02	0.15	0.15	< 0.005	0.01		0.01	0.01		0.01		34.5	34.5	< 0.005	< 0.005		34.6
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

Offsite																		
Daily, Summer (Max)																		
Worker	0.07	0.07	0.07	1.13	0	0	0.2	0.2	0	0.05	0.05		212	212	0.01	0.01	0.84	215
Vendor	0.02	0.01	0.23	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02		194	194	0.01	0.03	0.52	202
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	< 0.005	< 0.005	0.01	0.06	0	0	0.01	0.01	0	< 0.005	< 0.005		12.3	12.3	< 0.005	< 0.005	0.02	12.4
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		11.7	11.7	< 0.005	< 0.005	0.01	12.2
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.03	2.03	< 0.005	< 0.005	< 0.005	2.06
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		1.93	1.93	< 0.005	< 0.005	< 0.005	2.02
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.20. Trenching (2024) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.34	0.34	2.89	19.4	0.03	0.06		0.06	0.06		0.06		3454	3454	0.14	0.03		3466
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road Equipment	0.02	0.02	0.17	1.17	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		208	208	0.01	< 0.005		209
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	0.03	0.21	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		34.5	34.5	< 0.005	< 0.005		34.6
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.07	0.07	0.07	1.13	0	0	0.2	0.2	0	0.05	0.05		212	212	0.01	0.01	0.84	215
Vendor	0.02	0.01	0.23	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02		194	194	0.01	0.03	0.52	202
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	< 0.005	< 0.005	0.01	0.06	0	0	0.01	0.01	0	< 0.005	< 0.005		12.3	12.3	< 0.005	< 0.005	0.02	12.4
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		11.7	11.7	< 0.005	< 0.005	0.01	12.2
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.03	2.03	< 0.005	< 0.005	< 0.005	2.06
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		1.93	1.93	< 0.005	< 0.005	< 0.005	2.02
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.21. Trenching (2026) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	1.76	1.48	11.4	13.7	0.03	0.51		0.51	0.47		0.47		3457	3457	0.14	0.03		3469
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	1.76	1.48	11.4	13.7	0.03	0.51		0.51	0.47		0.47		3457	3457	0.14	0.03		3469
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.11	0.09	0.72	0.86	< 0.005	0.03		0.03	0.03		0.03		218	218	0.01	< 0.005		219
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.02	0.02	0.13	0.16	< 0.005	0.01		0.01	0.01		0.01		36.1	36.1	< 0.005	< 0.005		36.2
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.06	0.06	0.06	0.97	0	0	0.2	0.2	0	0.05	0.05		203	203	0.01	0.01	0.69	206
Vendor	0.01	0.01	0.21	0.1	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02		187	187	0.01	0.03	0.51	196
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.06	0.05	0.07	0.83	0	0	0.2	0.2	0	0.05	0.05		193	193	0.01	0.01	0.02	195
Vendor	0.01	0.01	0.22	0.1	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02		187	187	0.01	0.03	0.01	195
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.01	0.01	0	< 0.005	< 0.005		12.3	12.3	< 0.005	< 0.005	0.02	12.5
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		11.8	11.8	< 0.005	< 0.005	0.01	12.3
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.04	2.04	< 0.005	< 0.005	< 0.005	2.07
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		1.95	1.95	< 0.005	< 0.005	< 0.005	2.04
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.22. Trenching (2026) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.34	0.34	2.89	19.4	0.03	0.06		0.06	0.06		0.06		3457	3457	0.14	0.03		3469
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.34	0.34	2.89	19.4	0.03	0.06		0.06	0.06		0.06		3457	3457	0.14	0.03		3469
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.02	0.02	0.18	1.22	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		218	218	0.01	< 0.005		219
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	0.03	0.22	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		36.1	36.1	< 0.005	< 0.005		36.2
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.06	0.06	0.06	0.97	0	0	0.2	0.2	0	0.05	0.05		203	203	0.01	0.01	0.69	206
Vendor	0.01	0.01	0.21	0.1	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02		187	187	0.01	0.03	0.51	196
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.06	0.05	0.07	0.83	0	0	0.2	0.2	0	0.05	0.05		193	193	0.01	0.01	0.02	195
Vendor	0.01	0.01	0.22	0.1	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02		187	187	0.01	0.03	0.01	195
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.01	0.01	0	< 0.005	< 0.005		12.3	12.3	< 0.005	< 0.005	0.02	12.5
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		11.8	11.8	< 0.005	< 0.005	0.01	12.3
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.04	2.04	< 0.005	< 0.005	< 0.005	2.07
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		1.95	1.95	< 0.005	< 0.005	< 0.005	2.04
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.23. Trenching (2027) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	1.7	1.43	10.7	13.6	0.03	0.47		0.47	0.43		0.43		3457	3457	0.14	0.03		3469
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road Equipment	0.1	0.09	0.65	0.82	< 0.005	0.03		0.03	0.03		0.03		208	208	0.01	< 0.005		209
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.02	0.02	0.12	0.15	< 0.005	0.01		0.01	< 0.005		< 0.005		34.5	34.5	< 0.005	< 0.005		34.6
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.06	0.05	0.05	0.9	0	0	0.2	0.2	0	0.05	0.05		199	199	0.01	0.01	0.62	202
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.01	0.01	0	< 0.005	< 0.005		11.6	11.6	< 0.005	< 0.005	0.02	11.7
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.91	1.91	< 0.005	< 0.005	< 0.005	1.94
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.24. Trenching (2027) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.34	0.34	2.89	19.4	0.03	0.06		0.06	0.06		0.06		3457	3457	0.14	0.03		3469
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		

Off-Road Equipment	0.02	0.02	0.17	1.17	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005	208	208	0.01	< 0.005		209
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Off-Road Equipment	< 0.005	< 0.005	0.03	0.21	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005	34.5	34.5	< 0.005	< 0.005		34.6
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																	
Daily, Summer (Max)																	
Worker	0.06	0.05	0.05	0.9	0	0	0.2	0.2	0	0.05	0.05	199	199	0.01	0.01	0.62	202
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																	
Average Daily																	
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.01	0.01	0	< 0.005	< 0.005	11.6	11.6	< 0.005	< 0.005	0.02	11.7
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005	1.91	1.91	< 0.005	< 0.005	< 0.005	1.94
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Pl	Phase Description
Option 1 Rough Grading	Grading	9/15/2026	10/15/2026	5	23	
Option 1 Fine Grading	Grading	7/15/2027	8/15/2027	5	22	
Option 1 Building 1 Construction	Building Construction	7/15/2024	6/15/2025	5	240	
Option 1 Buildings 2 and 3 Construction	Building Construction	9/15/2026	8/15/2027	5	239	
Option 1 Building 1 Paving	Paving	3/30/2025	6/15/2025	5	55	
Option 1 Building 1 Architectural Coating	Architectural Coating	3/30/2025	6/15/2025	5	55	
Option 1 Buildings 2 and 3 Architectural Coating	Architectural Coating	5/31/2027	8/15/2027	5	55	
Option 1 Building 1 Utility Trenching	Trenching	7/15/2024	8/13/2024	5	22	
Option 1 Buildings 2 and 3 Utility Trenching	Trenching	9/15/2026	10/15/2026	5	23	
Option 1 Finishing/Landscaping	Trenching	7/15/2027	8/13/2027	5	22	

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Option 1 Rough Grading	Excavators	Diesel	Average	2	8	36	0.38
Option 1 Rough Grading	Graders	Diesel	Average	1	8	148	0.41
Option 1 Rough Grading	Rubber Tired Dozers	Diesel	Average	1	8	367	0.4
Option 1 Rough Grading	Scrapers	Diesel	Average	2	8	423	0.48
Option 1 Rough Grading	Tractors/Loaders/Backhoes	Diesel	Average	2	8	84	0.37
Option 1 Fine Grading	Excavators	Diesel	Average	2	8	36	0.38
Option 1 Fine Grading	Graders	Diesel	Average	1	8	148	0.41
Option 1 Fine Grading	Rubber Tired Dozers	Diesel	Average	1	8	367	0.4
Option 1 Fine Grading	Scrapers	Diesel	Average	2	8	423	0.48
Option 1 Fine Grading	Tractors/Loaders/Backhoes	Diesel	Average	2	8	84	0.37
Option 1 Building 1 Construction	Cranes	Diesel	Average	1	7	367	0.29
Option 1 Building 1 Construction	Forklifts	Diesel	Average	3	8	82	0.2
Option 1 Building 1 Construction	Generator Sets	Diesel	Average	1	8	14	0.74
Option 1 Building 1 Construction	Tractors/Loaders/Backhoes	Diesel	Average	3	7	84	0.37
Option 1 Building 1 Construction	Welders	Diesel	Average	1	8	46	0.45
Option 1 Buildings 2 and 3 Construction	Cranes	Diesel	Average	1	7	367	0.29
Option 1 Buildings 2 and 3 Construction	Forklifts	Diesel	Average	3	8	82	0.2
Option 1 Buildings 2 and 3 Construction	Generator Sets	Diesel	Average	1	8	14	0.74
Option 1 Buildings 2 and 3 Construction	Tractors/Loaders/Backhoes	Diesel	Average	3	7	84	0.37
Option 1 Buildings 2 and 3 Construction	Welders	Diesel	Average	1	8	46	0.45
Option 1 Building 1 Paving	Pavers	Diesel	Average	2	8	81	0.42
Option 1 Building 1 Paving	Paving Equipment	Diesel	Average	2	8	89	0.36
Option 1 Building 1 Paving	Rollers	Diesel	Average	2	8	36	0.38
Option 1 Building 1 Architectural Coating	Air Compressors	Diesel	Average	1	6	37	0.48
Option 1 Buildings 2 and 3 Architectural Coating	Air Compressors	Diesel	Average	1	6	37	0.48
Option 1 Building 1 Utility Trenching	Cranes	Diesel	Average	1	8	367	0.29
Option 1 Building 1 Utility Trenching	Crawler Tractors	Diesel	Average	1	8	87	0.43
Option 1 Building 1 Utility Trenching	Excavators	Diesel	Average	2	8	36	0.38
Option 1 Building 1 Utility Trenching	Off-Highway Trucks	Diesel	Average	1	8	376	0.38
Option 1 Building 1 Utility Trenching	Rubber Tired Loaders	Diesel	Average	1	8	150	0.36
Option 1 Buildings 2 and 3 Utility Trenching	Cranes	Diesel	Average	1	8	367	0.29
Option 1 Buildings 2 and 3 Utility Trenching	Crawler Tractors	Diesel	Average	1	8	87	0.43
Option 1 Buildings 2 and 3 Utility Trenching	Excavators	Diesel	Average	2	8	36	0.38
Option 1 Buildings 2 and 3 Utility Trenching	Off-Highway Trucks	Diesel	Average	1	8	376	0.38
Option 1 Buildings 2 and 3 Utility Trenching	Rubber Tired Loaders	Diesel	Average	1	8	150	0.36
Option 1 Finishing/Landscaping	Cranes	Diesel	Average	1	8	367	0.29
Option 1 Finishing/Landscaping	Crawler Tractors	Diesel	Average	1	8	87	0.43
Option 1 Finishing/Landscaping	Excavators	Diesel	Average	2	8	36	0.38
Option 1 Finishing/Landscaping	Off-Highway Trucks	Diesel	Average	1	8	376	0.38
Option 1 Finishing/Landscaping	Rubber Tired Loaders	Diesel	Average	1	8	150	0.36

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Option 1 Rough Grading	Excavators	Diesel	Tier 4 Final	2	8	36	0.38
Option 1 Rough Grading	Graders	Diesel	Tier 4 Final	1	8	148	0.41
Option 1 Rough Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1	8	367	0.4
Option 1 Rough Grading	Scrapers	Diesel	Tier 4 Final	2	8	423	0.48
Option 1 Rough Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2	8	84	0.37
Option 1 Fine Grading	Excavators	Diesel	Tier 4 Final	2	8	36	0.38
Option 1 Fine Grading	Graders	Diesel	Tier 4 Final	1	8	148	0.41
Option 1 Fine Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1	8	367	0.4
Option 1 Fine Grading	Scrapers	Diesel	Tier 4 Final	2	8	423	0.48
Option 1 Fine Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2	8	84	0.37
Option 1 Building 1 Construction	Cranes	Diesel	Tier 4 Final	1	7	367	0.29
Option 1 Building 1 Construction	Forklifts	Diesel	Tier 4 Final	3	8	82	0.2
Option 1 Building 1 Construction	Generator Sets	Diesel	Average	1	8	14	0.74
Option 1 Building 1 Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3	7	84	0.37
Option 1 Building 1 Construction	Welders	Diesel	Tier 4 Final	1	8	46	0.45
Option 1 Buildings 2 and 3 Construction	Cranes	Diesel	Tier 4 Final	1	7	367	0.29
Option 1 Buildings 2 and 3 Construction	Forklifts	Diesel	Tier 4 Final	3	8	82	0.2
Option 1 Buildings 2 and 3 Construction	Generator Sets	Diesel	Average	1	8	14	0.74
Option 1 Buildings 2 and 3 Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3	7	84	0.37
Option 1 Buildings 2 and 3 Construction	Welders	Diesel	Tier 4 Final	1	8	46	0.45
Option 1 Building 1 Paving	Pavers	Diesel	Tier 4 Final	2	8	81	0.42
Option 1 Building 1 Paving	Paving Equipment	Diesel	Tier 4 Final	2	8	89	0.36
Option 1 Building 1 Paving	Rollers	Diesel	Tier 4 Final	2	8	36	0.38
Option 1 Building 1 Architectural Coating	Air Compressors	Diesel	Tier 4 Final	1	6	37	0.48
Option 1 Buildings 2 and 3 Architectural Coating	Air Compressors	Diesel	Tier 4 Final	1	6	37	0.48
Option 1 Building 1 Utility Trenching	Cranes	Diesel	Tier 4 Final	1	8	367	0.29
Option 1 Building 1 Utility Trenching	Crawler Tractors	Diesel	Tier 4 Final	1	8	87	0.43
Option 1 Building 1 Utility Trenching	Excavators	Diesel	Tier 4 Final	2	8	36	0.38
Option 1 Building 1 Utility Trenching	Off-Highway Trucks	Diesel	Tier 4 Final	1	8	376	0.38
Option 1 Building 1 Utility Trenching	Rubber Tired Loaders	Diesel	Tier 4 Final	1	8	150	0.36
Option 1 Buildings 2 and 3 Utility Trenching	Cranes	Diesel	Tier 4 Final	1	8	367	0.29
Option 1 Buildings 2 and 3 Utility Trenching	Crawler Tractors	Diesel	Tier 4 Final	1	8	87	0.43
Option 1 Buildings 2 and 3 Utility Trenching	Excavators	Diesel	Tier 4 Final	2	8	36	0.38
Option 1 Buildings 2 and 3 Utility Trenching	Off-Highway Trucks	Diesel	Tier 4 Final	1	8	376	0.38

Option 1 Buildings 2 and 3 Utility Trenching	Rubber Tired Loaders	Diesel	Tier 4 Final	1	8	150	0.36
Option 1 Finishing/Landscaping	Cranes	Diesel	Tier 4 Final	1	8	367	0.29
Option 1 Finishing/Landscaping	Crawler Tractors	Diesel	Tier 4 Final	1	8	87	0.43
Option 1 Finishing/Landscaping	Excavators	Diesel	Tier 4 Final	2	8	36	0.38
Option 1 Finishing/Landscaping	Off-Highway Trucks	Diesel	Tier 4 Final	1	8	376	0.38
Option 1 Finishing/Landscaping	Rubber Tired Loaders	Diesel	Tier 4 Final	1	8	150	0.36

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips p	Miles per Trip	Vehicle Mix
Option 1 Rough Grading				
Option 1 Rough Grading	Worker	20	18.5	LDA,LDT1,LDT2
Option 1 Rough Grading	Vendor	20	10.2	HHDT,MHDT
Option 1 Rough Grading	Hauling	0	20	HHDT
Option 1 Rough Grading	Onsite truck	0		HHDT
Option 1 Building 1 Construction				
Option 1 Building 1 Construction	Worker	419	18.5	LDA,LDT1,LDT2
Option 1 Building 1 Construction	Vendor	164	10.2	HHDT,MHDT
Option 1 Building 1 Construction	Hauling	0	20	HHDT
Option 1 Building 1 Construction	Onsite truck	0		HHDT
Option 1 Building 1 Paving				
Option 1 Building 1 Paving	Worker	15	18.5	LDA,LDT1,LDT2
Option 1 Building 1 Paving	Vendor	0	10.2	HHDT,MHDT
Option 1 Building 1 Paving	Hauling	0	20	HHDT
Option 1 Building 1 Paving	Onsite truck	0		HHDT
Option 1 Building 1 Architectural Coating				
Option 1 Building 1 Architectural Coating	Worker	168	18.5	LDA,LDT1,LDT2
Option 1 Building 1 Architectural Coating	Vendor	0	10.2	HHDT,MHDT
Option 1 Building 1 Architectural Coating	Hauling	0	20	HHDT
Option 1 Building 1 Architectural Coating	Onsite truck	0		HHDT
Option 1 Fine Grading				
Option 1 Fine Grading	Worker	20	18.5	LDA,LDT1,LDT2
Option 1 Fine Grading	Vendor	20	10.2	HHDT,MHDT
Option 1 Fine Grading	Hauling	0	20	HHDT
Option 1 Fine Grading	Onsite truck	0		HHDT
Option 1 Buildings 2 and 3 Construction				
Option 1 Buildings 2 and 3 Construction	Worker	419	18.5	LDA,LDT1,LDT2
Option 1 Buildings 2 and 3 Construction	Vendor	164	10.2	HHDT,MHDT
Option 1 Buildings 2 and 3 Construction	Hauling	0	20	HHDT
Option 1 Buildings 2 and 3 Construction	Onsite truck	0		HHDT
Option 1 Buildings 2 and 3 Architectural Coating				
Option 1 Buildings 2 and 3 Architectural Coating	Worker	168	18.5	LDA,LDT1,LDT2
Option 1 Buildings 2 and 3 Architectural Coating	Vendor	0	10.2	HHDT,MHDT
Option 1 Buildings 2 and 3 Architectural Coating	Hauling	0	20	HHDT
Option 1 Buildings 2 and 3 Architectural Coating	Onsite truck	0		HHDT
Option 1 Building 1 Utility Trenching				
Option 1 Building 1 Utility Trenching	Worker	15	18.5	LDA,LDT1,LDT2
Option 1 Building 1 Utility Trenching	Vendor	6	10.2	HHDT,MHDT
Option 1 Building 1 Utility Trenching	Hauling	0	20	HHDT
Option 1 Building 1 Utility Trenching	Onsite truck	0		HHDT
Option 1 Buildings 2 and 3 Utility Trenching				
Option 1 Buildings 2 and 3 Utility Trenching	Worker	15	18.5	LDA,LDT1,LDT2
Option 1 Buildings 2 and 3 Utility Trenching	Vendor	6	10.2	HHDT,MHDT
Option 1 Buildings 2 and 3 Utility Trenching	Hauling	0	20	HHDT
Option 1 Buildings 2 and 3 Utility Trenching	Onsite truck	0		HHDT
Option 1 Finishing/Landscaping				
Option 1 Finishing/Landscaping	Worker	15	18.5	LDA,LDT1,LDT2
Option 1 Finishing/Landscaping	Vendor	0	10.2	HHDT,MHDT
Option 1 Finishing/Landscaping	Hauling	0	20	HHDT
Option 1 Finishing/Landscaping	Onsite truck	0		HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips p	Miles per Trip	Vehicle Mix
Option 1 Rough Grading				
Option 1 Rough Grading	Worker	20	18.5	LDA,LDT1,LDT2
Option 1 Rough Grading	Vendor	20	10.2	HHDT,MHDT
Option 1 Rough Grading	Hauling	0	20	HHDT
Option 1 Rough Grading	Onsite truck	0		HHDT
Option 1 Building 1 Construction				
Option 1 Building 1 Construction	Worker	419	18.5	LDA,LDT1,LDT2
Option 1 Building 1 Construction	Vendor	164	10.2	HHDT,MHDT
Option 1 Building 1 Construction	Hauling	0	20	HHDT
Option 1 Building 1 Construction	Onsite truck	0		HHDT
Option 1 Building 1 Paving				
Option 1 Building 1 Paving	Worker	15	18.5	LDA,LDT1,LDT2
Option 1 Building 1 Paving	Vendor	0	10.2	HHDT,MHDT
Option 1 Building 1 Paving	Hauling	0	20	HHDT
Option 1 Building 1 Paving	Onsite truck	0		HHDT
Option 1 Building 1 Architectural Coating				
Option 1 Building 1 Architectural Coating	Worker	168	18.5	LDA,LDT1,LDT2
Option 1 Building 1 Architectural Coating	Vendor	0	10.2	HHDT,MHDT
Option 1 Building 1 Architectural Coating	Hauling	0	20	HHDT
Option 1 Building 1 Architectural Coating	Onsite truck	0		HHDT
Option 1 Fine Grading				
Option 1 Fine Grading	Worker	20	18.5	LDA,LDT1,LDT2
Option 1 Fine Grading	Vendor	20	10.2	HHDT,MHDT
Option 1 Fine Grading	Hauling	0	20	HHDT
Option 1 Fine Grading	Onsite truck	0		HHDT
Option 1 Buildings 2 and 3 Construction				
Option 1 Buildings 2 and 3 Construction	Worker	419	18.5	LDA,LDT1,LDT2
Option 1 Buildings 2 and 3 Construction	Vendor	164	10.2	HHDT,MHDT
Option 1 Buildings 2 and 3 Construction	Hauling	0	20	HHDT
Option 1 Buildings 2 and 3 Construction	Onsite truck	0		HHDT
Option 1 Buildings 2 and 3 Architectural Coating				
Option 1 Buildings 2 and 3 Architectural Coating	Worker	168	18.5	LDA,LDT1,LDT2
Option 1 Buildings 2 and 3 Architectural Coating	Vendor	0	10.2	HHDT,MHDT
Option 1 Buildings 2 and 3 Architectural Coating	Hauling	0	20	HHDT
Option 1 Buildings 2 and 3 Architectural Coating	Onsite truck	0		HHDT
Option 1 Building 1 Utility Trenching				
Option 1 Building 1 Utility Trenching	Worker	15	18.5	LDA,LDT1,LDT2
Option 1 Building 1 Utility Trenching	Vendor	6	10.2	HHDT,MHDT
Option 1 Building 1 Utility Trenching	Hauling	0	20	HHDT
Option 1 Building 1 Utility Trenching	Onsite truck	0		HHDT
Option 1 Buildings 2 and 3 Utility Trenching				
Option 1 Buildings 2 and 3 Utility Trenching	Worker	15	18.5	LDA,LDT1,LDT2
Option 1 Buildings 2 and 3 Utility Trenching	Vendor	6	10.2	HHDT,MHDT

Option 1 Buildings 2 and 3 Utility Trenching	Hauling	0	20	HHDT
Option 1 Buildings 2 and 3 Utility Trenching	Onsite truck	0		HHDT
Option 1 Finishing/Landscaping				
Option 1 Finishing/Landscaping	Worker	15	18.5	LDA,LDT1,LDT2
Option 1 Finishing/Landscaping	Vendor	0	10.2	HHDT,MHDT
Option 1 Finishing/Landscaping	Hauling	0	20	HHDT
Option 1 Finishing/Landscaping	Onsite truck	0		HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55	55
Limit vehicle speeds on unpaved roads to 25 mph	44	44
Sweep paved roads once per month	9	9

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coate	Residential Exter	Non-Residential I	Non-Residential	Parking Area Coated (sq ft)
Option 1 Building 1 Architectural Coating	0	0	111165	37055	3516
Option 1 Buildings 2 and 3 Architectural Coating	0	0	1385529	461843	45120

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards	Material Exporte	Acres Graded (ac	Material Demoli	Acres Paved (acres)
Option 1 Rough Grading	0	0	69	0	
Option 1 Fine Grading	0	0	66	0	
Option 1 Building 1 Paving	0	0	0	0	30.3

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61	61

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0	0
Parking Lot	18.6	100
Other Non-Asphalt Surfaces	7.12	0
Other Non-Asphalt Surfaces	4.61	0

5.8. Construction Electricity Consumption and Emissions Factors

Year	kWh per Year	CO2	CH4	N2O
2024	0	450	0.03	< 0.005
2025	0	450	0.03	< 0.005
2026	0	450	0.03	< 0.005
2027	0	450	0.03	< 0.005

8. User Changes to Default Data

Screen	Justification
Characteristics: Project Details	
Characteristics: Utility Information	2021 SCE Sustainability Report
Construction: Construction Phases	based on the construction schedule provided by the applicant
Construction: Off-Road Equipment	Building 1 Trenching, Buildings 2 and 3 Trenching, and Finishing/Landscaping equipment based on equipment mix approved by Applicant
Construction: Trips and VMT	see assumptions file for water truck trips calculations
Land Use	modified lot acreage adjusted to account for multiple stories
Construction: Architectural Coatings	SCAQMD Rule 1113. Building 1 and Buildings 2 and 3 coating are separated based on the area of the buildings. See assumptions file for calculations.
Construction: Electricity	2021 SCE Sustainability Report

Construction (Option 2)

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Irwindale Gateway Project Construction (Option 2)
Construction Start Date	7/15/2024
Lead Agency	
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.8
Precipitation (days)	22.4
Location	13620 Live Oak Ln, Irwindale, CA 91706, USA
County	Los Angeles-South Coast
City	Irwindale
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4900
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.12

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq	Landscape Area (	Special Landsc	Population	Description
Unrefrigerated Warehouse-No Rail	704	1000sqft	15.8	704070	0	0		
Parking Lot	581	1000sqft	13.3	0	0	0		
Other Non-Asphalt Surfaces	180	1000sqft	4.14	0	180333	0		
Other Non-Asphalt Surfaces	857	1000sqft	19.7	0	0	0		

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-13	Use Low-VOC Paints for Construction

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	9.34	71.3	56.7	89.7	0.16	2.08	10.6	12.6	1.88	3.12	4.95		23360	23360	0.97	0.89	29.4	23679
Mit.	3.89	7.68	48.2	100	0.15	0.52	10.6	11.1	0.49	3.12	3.62		22796	22796	0.94	0.89	29.4	23114
% Reduced	58.3	89.2	15	−11.6	4.57	75		11.7	73.7		27		2.41	2.41	2.37	0.51		2.39
Daily, Winter (Max)																		
Unmit.	8.35	6.93	55	74.8	0.15	2.08	9.12	11.2	1.88	2.77	4.66		21111	21111	0.88	0.89	0.7	21398
Mit.	3.48	3.09	47.6	90.7	0.15	0.52	9.12	9.64	0.47	2.77	3.24		21215	21215	0.89	0.89	0.7	21502
% Reduced	58.3	55.4	13.4	−21.2	−0.98	75		13.9	75.1		30.4		−0.49	−0.49	−0.48			−0.49
Average Daily (Max)																		
Unmit.	1.69	11	9.57	18.2	0.03	0.27	2.61	2.88	0.25	0.66	0.91		5330	5330	0.17	0.31	4.51	5431
Mit.	1.03	1.51	9.06	19.2	0.03	0.1	2.61	2.71	0.1	0.66	0.76		5276	5276	0.17	0.31	4.51	5376
% Reduced	39.1	86.2	5.37	−5.66		62.4		5.84	61.2		16.7		1.02	1.02	1.32			1.01
Annual (Max)																		
Unmit.	0.31	2	1.75	3.31	0.01	0.05	0.48	0.53	0.05	0.12	0.17		883	883	0.03	0.05	0.75	899
Mit.	0.19	0.28	1.65	3.5	0.01	0.02	0.48	0.49	0.02	0.12	0.14		873	873	0.03	0.05	0.75	890
% Reduced	39.1	86.2	5.37	−5.66	2.24	62.4		5.84	61.2		16.7		1.02	1.02	1.32	0.14		1.01

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2024	5.23	4.34	30.8	52.7	0.08	1.2	5.1	6.3	1.1	1.24	2.34		14155	14155	0.58	0.73	27.9	14416
2025	4.05	4	23.4	46.7	0.06	0.83	5.05	5.88	0.74	1.22	1.97		11866	11866	0.49	0.69	25.7	12111
2026	8.35	6.94	54.6	77.9	0.15	2.08	9.12	11.2	1.88	2.77	4.66		21342	21342	0.87	0.89	27.1	21655
2027	9.34	71.3	56.7	89.7	0.16	1.99	10.6	12.6	1.83	3.12	4.95		23360	23360	0.97	0.89	29.4	23679
Daily - Winter (Max)																		
2024	3.19	2.62	17.5	34.2	0.05	0.55	4.85	5.4	0.51	1.18	1.69		10079	10079	0.43	0.68	0.69	10293
2025	4.03	3.99	23.7	43.4	0.06	0.83	5.05	5.88	0.74	1.22	1.97		11644	11644	0.5	0.7	0.67	11866
2026	8.35	6.93	55	74.8	0.15	2.08	9.12	11.2	1.88	2.77	4.66		21111	21111	0.88	0.89	0.7	21398
2027	2.63	2.16	14.6	29.8	0.05	0.36	4.85	5.22	0.34	1.18	1.51		9653	9653	0.3	0.65	0.56	9854
Average Daily																		
2024	1.18	0.97	6.65	12.6	0.02	0.22	1.61	1.83	0.21	0.39	0.6		3605	3605	0.15	0.23	3.84	3681
2025	1.13	1.03	6.44	12.5	0.02	0.21	1.58	1.79	0.19	0.38	0.57		3504	3504	0.15	0.22	3.56	3577
2026	0.94	0.77	5.76	9.51	0.02	0.19	1.28	1.47	0.17	0.35	0.52		2795	2795	0.12	0.16	2.23	2847
2027	1.69	11	9.57	18.2	0.03	0.27	2.61	2.88	0.25	0.66	0.91		5330	5330	0.17	0.31	4.51	5431
Annual																		
2024	0.22	0.18	1.21	2.3	< 0.005	0.04	0.29	0.33	0.04	0.07	0.11		597	597	0.03	0.04	0.64	609
2025	0.21	0.19	1.18	2.28	< 0.005	0.04	0.29	0.33	0.03	0.07	0.1		580	580	0.02	0.04	0.59	592
2026	0.17	0.14	1.05	1.74	< 0.005	0.04	0.23	0.27	0.03	0.06	0.09		463	463	0.02	0.03	0.37	471
2027	0.31	2	1.75	3.31	0.01	0.05	0.48	0.53	0.05	0.12	0.17		883	883	0.03	0.05	0.75	899

2.3. Construction Emissions by Year, Mitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2024	2.85	2.46	27.8	60.4	0.08	0.33	5.1	5.43	0.32	1.24	1.56		14259	14259	0.58	0.74	27.9	14520
2025	2.53	2.82	23	49.6	0.06	0.29	5.05	5.34	0.25	1.22	1.47		11970	11970	0.5	0.69	25.7	12215
2026	3.49	3.1	47.2	93.8	0.15	0.52	9.12	9.64	0.47	2.77	3.24		21446	21446	0.88	0.89	27.1	21759
2027	3.89	7.68	48.2	100	0.15	0.52	10.6	11.1	0.49	3.12	3.62		22796	22796	0.94	0.89	29.4	23114
Daily - Winter (Max)																		
2024	2.31	1.93	16.6	36.4	0.05	0.2	4.85	5.06	0.2	1.18	1.37		10183	10183	0.43	0.68	0.69	10397
2025	2.52	2.8	23.4	46.3	0.06	0.29	5.05	5.34	0.25	1.22	1.47		11748	11748	0.5	0.7	0.67	11970
2026	3.48	3.09	47.6	90.7	0.15	0.52	9.12	9.64	0.47	2.77	3.24		21215	21215	0.89	0.89	0.7	21502
2027	1.96	1.65	15.5	32.2	0.05	0.18	4.85	5.03	0.17	1.18	1.35		9757	9757	0.3	0.65	0.56	9958
Average Daily																		
2024	0.8	0.67	6.23	13.7	0.02	0.08	1.61	1.68	0.07	0.39	0.46		3639	3639	0.15	0.23	3.84	3715
2025	0.76	0.75	6.37	13.3	0.02	0.08	1.58	1.66	0.07	0.38	0.45		3538	3538	0.15	0.22	3.56	3611
2026	0.52	0.45	5.37	10.9	0.02	0.06	1.28	1.34	0.05	0.35	0.4		2817	2817	0.12	0.16	2.23	2869
2027	1.03	1.51	9.06	19.2	0.03	0.1	2.61	2.71	0.1	0.66	0.76		5276	5276	0.17	0.31	4.51	5376
Annual																		
2024	0.15	0.12	1.14	2.49	< 0.005	0.01	0.29	0.31	0.01	0.07	0.08		602	602	0.03	0.04	0.64	615
2025	0.14	0.14	1.16	2.43	< 0.005	0.01	0.29	0.3	0.01	0.07	0.08		586	586	0.03	0.04	0.59	598
2026	0.1	0.08	0.98	1.98	< 0.005	0.01	0.23	0.25	0.01	0.06	0.07		466	466	0.02	0.03	0.37	475
2027	0.19	0.28	1.65	3.5	0.01	0.02	0.48	0.49	0.02	0.12	0.14		873	873	0.03	0.05	0.75	890

3. Construction Emissions Details

3.1. Grading (2026) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	3.62	3.04	27.2	27.6	0.06	1.12		1.12	1.03		1.03		6599	6599	0.27	0.05		6621
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	3.62	3.04	27.2	27.6	0.06	1.12		1.12	1.03		1.03		6599	6599	0.27	0.05		6621
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.23	0.19	1.72	1.74	< 0.005	0.07		0.07	0.07		0.07		416	416	0.02	< 0.005		417
Dust From Material Movement							0.23	0.23		0.09	0.09							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.04	0.04	0.31	0.32	< 0.005	0.01		0.01	0.01		0.01		68.8	68.8	< 0.005	< 0.005		69.1
Dust From Material Movement							0.04	0.04		0.02	0.02							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.08	0.07	0.08	1.29	0	0	0.26	0.26	0	0.06	0.06		271	271	0.01	0.01	0.92	275
Vendor	0.05	0.02	0.69	0.33	< 0.005	0.01	0.17	0.18	< 0.005	0.05	0.05		624	624	0.03	0.09	1.69	652
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.08	0.07	0.09	1.1	0	0	0.26	0.26	0	0.06	0.06		257	257	0.01	0.01	0.02	260
Vendor	0.04	0.02	0.72	0.34	< 0.005	0.01	0.17	0.18	< 0.005	0.05	0.05		624	624	0.03	0.09	0.04	651
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	< 0.005	0.01	0.07	0	0	0.02	0.02	0	< 0.005	< 0.005		16.4	16.4	< 0.005	< 0.005	0.02	16.6
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		39.3	39.3	< 0.005	0.01	0.05	41.1
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.72	2.72	< 0.005	< 0.005	< 0.005	2.76
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		6.51	6.51	< 0.005	< 0.005	0.01	6.8
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.2. Grading (2026) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		

Daily, Summer (Max)																		
Off-Road Equipment	0.8	0.8	19.4	35.3	0.06	0.18		0.18	0.18		0.18		6599	6599	0.27	0.05		6621
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.8	0.8	19.4	35.3	0.06	0.18		0.18	0.18		0.18		6599	6599	0.27	0.05		6621
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.05	0.05	1.22	2.23	< 0.005	0.01		0.01	0.01		0.01		416	416	0.02	< 0.005		417
Dust From Material Movement							0.23	0.23		0.09	0.09							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.01	0.01	0.22	0.41	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		68.8	68.8	< 0.005	< 0.005		69.1
Dust From Material Movement							0.04	0.04		0.02	0.02							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.08	0.07	0.08	1.29	0	0	0.26	0.26	0	0.06	0.06		271	271	0.01	0.01	0.92	275
Vendor	0.05	0.02	0.69	0.33	< 0.005	0.01	0.17	0.18	< 0.005	0.05	0.05		624	624	0.03	0.09	1.69	652
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.08	0.07	0.09	1.1	0	0	0.26	0.26	0	0.06	0.06		257	257	0.01	0.01	0.02	260
Vendor	0.04	0.02	0.72	0.34	< 0.005	0.01	0.17	0.18	< 0.005	0.05	0.05		624	624	0.03	0.09	0.04	651
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	< 0.005	0.01	0.07	0	0	0.02	0.02	0	< 0.005	< 0.005		16.4	16.4	< 0.005	< 0.005	0.02	16.6
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		39.3	39.3	< 0.005	0.01	0.05	41.1
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.72	2.72	< 0.005	< 0.005	< 0.005	2.76
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		6.51	6.51	< 0.005	< 0.005	0.01	6.8
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.3. Grading (2027) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	3.51	2.95	25.6	27.3	0.06	1.04		1.04	0.96		0.96		6598	6598	0.27	0.05		6621
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road Equipment	0.21	0.18	1.54	1.64	< 0.005	0.06		0.06	0.06		0.06		398	398	0.02	< 0.005		399
Dust From Material Movement							0.22	0.22		0.09	0.09							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.04	0.03	0.28	0.3	< 0.005	0.01		0.01	0.01		0.01		65.8	65.8	< 0.005	< 0.005		66.1
Dust From Material Movement							0.04	0.04		0.02	0.02							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.08	0.07	0.07	1.2	0	0	0.26	0.26	0	0.06	0.06		266	266	0.01	0.01	0.83	270
Vendor	0.04	0.02	0.66	0.31	< 0.005	< 0.005	0.17	0.18	< 0.005	0.05	0.05		611	611	0.03	0.08	1.59	639
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	< 0.005	< 0.005	0.01	0.06	0	0	0.02	0.02	0	< 0.005	< 0.005		15.4	15.4	< 0.005	< 0.005	0.02	15.6
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		36.9	36.9	< 0.005	0.01	0.04	38.5
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.55	2.55	< 0.005	< 0.005	< 0.005	2.58
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		6.1	6.1	< 0.005	< 0.005	0.01	6.37
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.4. Grading (2027) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.8	0.8	19.4	35.3	0.06	0.18		0.18	0.18		0.18		6598	6598	0.27	0.05		6621
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road Equipment	0.05	0.05	1.17	2.13	< 0.005	0.01		0.01	0.01		0.01		398	398	0.02	< 0.005		399
Dust From Material Movement							0.22	0.22		0.09	0.09							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.01	0.01	0.21	0.39	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		65.8	65.8	< 0.005	< 0.005		66.1
Dust From Material Movement							0.04	0.04		0.02	0.02							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.08	0.07	0.07	1.2	0	0	0.26	0.26	0	0.06	0.06		266	266	0.01	0.01	0.83	270
Vendor	0.04	0.02	0.66	0.31	< 0.005	< 0.005	0.17	0.18	< 0.005	0.05	0.05		611	611	0.03	0.08	1.59	639
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	< 0.005	< 0.005	0.01	0.06	0	0	0.02	0.02	0	< 0.005	< 0.005		15.4	15.4	< 0.005	< 0.005	0.02	15.6
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		36.9	36.9	< 0.005	0.01	0.04	38.5
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.55	2.55	< 0.005	< 0.005	< 0.005	2.58
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		6.1	6.1	< 0.005	< 0.005	0.01	6.37
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.5. Building Construction (2024) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	1.44	1.2	11.2	13.1	0.02	0.5		0.5	0.46		0.46		2398	2398	0.1	0.02		2406
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	1.44	1.2	11.2	13.1	0.02	0.5		0.5	0.46		0.46		2398	2398	0.1	0.02		2406
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.48	0.4	3.73	4.36	0.01	0.17		0.17	0.15		0.15		798	798	0.03	0.01		800
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.09	0.07	0.68	0.8	< 0.005	0.03		0.03	0.03		0.03		132	132	0.01	< 0.005		133
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	1.47	1.33	1.41	22.3	0	0	3.87	3.87	0	0.91	0.91		4175	4175	0.17	0.14	16.5	4238
Vendor	0.29	0.11	4.38	2.15	0.03	0.05	0.99	1.04	0.05	0.27	0.32		3723	3723	0.15	0.51	10.1	3890
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	1.46	1.31	1.68	18.9	0	0	3.87	3.87	0	0.91	0.91		3957	3957	0.18	0.15	0.43	4006
Vendor	0.29	0.11	4.56	2.2	0.03	0.05	0.99	1.04	0.05	0.27	0.32		3724	3724	0.15	0.51	0.26	3881
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.48	0.43	0.56	6.6	0	0	1.27	1.27	0	0.3	0.3		1336	1336	0.06	0.05	2.36	1354
Vendor	0.1	0.04	1.53	0.72	0.01	0.02	0.32	0.34	0.02	0.09	0.11		1239	1239	0.05	0.17	1.44	1292
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.09	0.08	0.1	1.2	0	0	0.23	0.23	0	0.05	0.05		221	221	0.01	0.01	0.39	224
Vendor	0.02	0.01	0.28	0.13	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02		205	205	0.01	0.03	0.24	214
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.6. Building Construction (2024) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.56	0.52	10.3	15.4	0.02	0.15		0.15	0.14		0.14		2501	2501	0.1	0.02		2510
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.56	0.52	10.3	15.4	0.02	0.15		0.15	0.14		0.14		2501	2501	0.1	0.02		2510
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.19	0.17	3.44	5.11	0.01	0.05		0.05	0.05		0.05		832	832	0.03	0.01		835
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		

Off-Road Equipment	0.03	0.03	0.63	0.93	< 0.005	0.01		0.01	0.01		0.01		138	138	0.01	< 0.005		138
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	1.47	1.33	1.41	22.3	0	0	3.87	3.87	0	0.91	0.91		4175	4175	0.17	0.14	16.5	4238
Vendor	0.29	0.11	4.38	2.15	0.03	0.05	0.99	1.04	0.05	0.27	0.32		3723	3723	0.15	0.51	10.1	3890
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	1.46	1.31	1.68	18.9	0	0	3.87	3.87	0	0.91	0.91		3957	3957	0.18	0.15	0.43	4006
Vendor	0.29	0.11	4.56	2.2	0.03	0.05	0.99	1.04	0.05	0.27	0.32		3724	3724	0.15	0.51	0.26	3881
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.48	0.43	0.56	6.6	0	0	1.27	1.27	0	0.3	0.3		1336	1336	0.06	0.05	2.36	1354
Vendor	0.1	0.04	1.53	0.72	0.01	0.02	0.32	0.34	0.02	0.09	0.11		1239	1239	0.05	0.17	1.44	1292
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.09	0.08	0.1	1.2	0	0	0.23	0.23	0	0.05	0.05		221	221	0.01	0.01	0.39	224
Vendor	0.02	0.01	0.28	0.13	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02		205	205	0.01	0.03	0.24	214
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.7. Building Construction (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	1.35	1.13	10.4	13	0.02	0.43		0.43	0.4		0.4		2398	2398	0.1	0.02		2406
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	1.35	1.13	10.4	13	0.02	0.43		0.43	0.4		0.4		2398	2398	0.1	0.02		2406
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.44	0.37	3.39	4.24	0.01	0.14		0.14	0.13		0.13		779	779	0.03	0.01		782
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.08	0.07	0.62	0.77	< 0.005	0.03		0.03	0.02		0.02		129	129	0.01	< 0.005		129
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	1.41	1.27	1.28	20.6	0	0	3.87	3.87	0	0.91	0.91		4089	4089	0.17	0.14	15	4150
Vendor	0.26	0.11	4.16	2.04	0.03	0.05	0.99	1.04	0.03	0.27	0.3		3661	3661	0.15	0.51	10	3828
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	1.4	1.25	1.42	17.4	0	0	3.87	3.87	0	0.91	0.91		3875	3875	0.18	0.15	0.39	3924
Vendor	0.26	0.11	4.34	2.06	0.03	0.05	0.99	1.04	0.03	0.27	0.3		3663	3663	0.15	0.51	0.26	3820
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.45	0.41	0.5	5.95	0	0	1.24	1.24	0	0.29	0.29		1278	1278	0.06	0.05	2.1	1295
Vendor	0.08	0.03	1.42	0.66	0.01	0.02	0.32	0.33	0.01	0.09	0.1		1190	1190	0.05	0.17	1.41	1242
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.08	0.07	0.09	1.09	0	0	0.23	0.23	0	0.05	0.05		212	212	0.01	0.01	0.35	214
Vendor	0.02	0.01	0.26	0.12	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02		197	197	0.01	0.03	0.23	206
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.8. Building Construction (2025) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.56	0.51	10.3	15.4	0.02	0.15		0.15	0.14		0.14		2502	2502	0.1	0.02		2510
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.56	0.51	10.3	15.4	0.02	0.15		0.15	0.14		0.14		2502	2502	0.1	0.02		2510
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.18	0.17	3.35	4.99	0.01	0.05		0.05	0.05		0.05		813	813	0.03	0.01		815
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.03	0.03	0.61	0.91	< 0.005	0.01		0.01	0.01		0.01		135	135	0.01	< 0.005		135
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	1.41	1.27	1.28	20.6	0	0	3.87	3.87	0	0.91	0.91		4089	4089	0.17	0.14	15	4150
Vendor	0.26	0.11	4.16	2.04	0.03	0.05	0.99	1.04	0.03	0.27	0.3		3661	3661	0.15	0.51	10	3828
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	1.4	1.25	1.42	17.4	0	0	3.87	3.87	0	0.91	0.91		3875	3875	0.18	0.15	0.39	3924
Vendor	0.26	0.11	4.34	2.06	0.03	0.05	0.99	1.04	0.03	0.27	0.3		3663	3663	0.15	0.51	0.26	3820
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.45	0.41	0.5	5.95	0	0	1.24	1.24	0	0.29	0.29		1278	1278	0.06	0.05	2.1	1295
Vendor	0.08	0.03	1.42	0.66	0.01	0.02	0.32	0.33	0.01	0.09	0.1		1190	1190	0.05	0.17	1.41	1242
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.08	0.07	0.09	1.09	0	0	0.23	0.23	0	0.05	0.05		212	212	0.01	0.01	0.35	214
Vendor	0.02	0.01	0.26	0.12	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02		197	197	0.01	0.03	0.23	206
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.9. Building Construction (2026) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	1.28	1.07	9.85	13	0.02	0.38		0.38	0.35		0.35		2397	2397	0.1	0.02		2405
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	1.28	1.07	9.85	13	0.02	0.38		0.38	0.35		0.35		2397	2397	0.1	0.02		2405
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.27	0.23	2.08	2.74	< 0.005	0.08		0.08	0.07		0.07		507	507	0.02	< 0.005		508
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.05	0.04	0.38	0.5	< 0.005	0.01		0.01	0.01		0.01		83.9	83.9	< 0.005	< 0.005		84.2
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	1.23	1.09	1.15	19.1	0	0	3.87	3.87	0	0.91	0.91		4006	4006	0.17	0.14	13.6	4066
Vendor	0.26	0.11	3.97	1.92	0.03	0.05	0.99	1.04	0.03	0.27	0.3		3598	3598	0.15	0.51	9.72	3764
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	1.23	1.08	1.29	16.3	0	0	3.87	3.87	0	0.91	0.91		3798	3798	0.17	0.14	0.35	3845
Vendor	0.25	0.1	4.15	1.96	0.03	0.05	0.99	1.04	0.03	0.27	0.3		3600	3600	0.15	0.51	0.25	3757
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.26	0.23	0.3	3.61	0	0	0.81	0.81	0	0.19	0.19		815	815	0.04	0.03	1.24	826
Vendor	0.05	0.02	0.88	0.41	0.01	0.01	0.21	0.22	0.01	0.06	0.06		761	761	0.03	0.11	0.89	795
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.05	0.04	0.05	0.66	0	0	0.15	0.15	0	0.03	0.03		135	135	0.01	< 0.005	0.21	137
Vendor	0.01	< 0.005	0.16	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01		126	126	0.01	0.02	0.15	132
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.10. Building Construction (2026) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.55	0.51	10.3	15.3	0.02	0.15		0.15	0.14		0.14		2501	2501	0.1	0.02		2510
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.55	0.51	10.3	15.3	0.02	0.15		0.15	0.14		0.14		2501	2501	0.1	0.02		2510
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.12	0.11	2.18	3.24	0.01	0.03		0.03	0.03		0.03		529	529	0.02	< 0.005		530
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.02	0.02	0.4	0.59	< 0.005	0.01		0.01	0.01		0.01		87.5	87.5	< 0.005	< 0.005		87.8
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	1.23	1.09	1.15	19.1	0	0	3.87	3.87	0	0.91	0.91		4006	4006	0.17	0.14	13.6	4066
Vendor	0.26	0.11	3.97	1.92	0.03	0.05	0.99	1.04	0.03	0.27	0.3		3598	3598	0.15	0.51	9.72	3764
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	1.23	1.08	1.29	16.3	0	0	3.87	3.87	0	0.91	0.91		3798	3798	0.17	0.14	0.35	3845
Vendor	0.25	0.1	4.15	1.96	0.03	0.05	0.99	1.04	0.03	0.27	0.3		3600	3600	0.15	0.51	0.25	3757

Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.26	0.23	0.3	3.61	0	0	0.81	0.81	0	0.19	0.19		815	815	0.04	0.03	1.24	826
Vendor	0.05	0.02	0.88	0.41	0.01	0.01	0.21	0.22	0.01	0.06	0.06		761	761	0.03	0.11	0.89	795
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.05	0.04	0.05	0.66	0	0	0.15	0.15	0	0.03	0.03		135	135	0.01	< 0.005	0.21	137
Vendor	0.01	< 0.005	0.16	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01		126	126	0.01	0.02	0.15	132
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.11. Building Construction (2027) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34		0.34	0.31		0.31		2397	2397	0.1	0.02		2405
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34		0.34	0.31		0.31		2397	2397	0.1	0.02		2405
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.55	0.46	4.17	5.75	0.01	0.15		0.15	0.14		0.14		1065	1065	0.04	0.01		1069
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.1	0.08	0.76	1.05	< 0.005	0.03		0.03	0.03		0.03		176	176	0.01	< 0.005		177
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	1.19	1.05	1.02	17.8	0	0	3.87	3.87	0	0.91	0.91		3930	3930	0.17	0.14	12.2	3988
Vendor	0.23	0.11	3.8	1.81	0.03	0.03	0.99	1.01	0.03	0.27	0.3		3528	3528	0.15	0.49	9.2	3686
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	1.18	1.03	1.27	15	0	0	3.87	3.87	0	0.91	0.91		3726	3726	0.05	0.14	0.32	3769
Vendor	0.23	0.1	3.95	1.85	0.03	0.03	0.99	1.01	0.03	0.27	0.3		3530	3530	0.15	0.49	0.24	3679
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.52	0.46	0.57	7.03	0	0	1.69	1.69	0	0.4	0.4		1679	1679	0.02	0.06	2.34	1701
Vendor	0.1	0.05	1.77	0.81	0.01	0.01	0.43	0.44	0.01	0.12	0.13		1568	1568	0.07	0.22	1.76	1636
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.1	0.08	0.1	1.28	0	0	0.31	0.31	0	0.07	0.07		278	278	< 0.005	0.01	0.39	282
Vendor	0.02	0.01	0.32	0.15	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02		260	260	0.01	0.04	0.29	271
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.12. Building Construction (2027) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.55	0.51	10.3	15.3	0.02	0.15		0.15	0.14		0.14		2501	2501	0.1	0.02		2510
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.55	0.51	10.3	15.3	0.02	0.15		0.15	0.14		0.14		2501	2501	0.1	0.02		2510
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.25	0.23	4.58	6.82	0.01	0.07		0.07	0.06		0.06		1111	1111	0.05	0.01		1115
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.04	0.04	0.84	1.24	< 0.005	0.01		0.01	0.01		0.01		184	184	0.01	< 0.005		185
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	1.19	1.05	1.02	17.8	0	0	3.87	3.87	0	0.91	0.91		3930	3930	0.17	0.14	12.2	3988
Vendor	0.23	0.11	3.8	1.81	0.03	0.03	0.99	1.01	0.03	0.27	0.3		3528	3528	0.15	0.49	9.2	3686
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	1.18	1.03	1.27	15	0	0	3.87	3.87	0	0.91	0.91		3726	3726	0.05	0.14	0.32	3769
Vendor	0.23	0.1	3.95	1.85	0.03	0.03	0.99	1.01	0.03	0.27	0.3		3530	3530	0.15	0.49	0.24	3679
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.52	0.46	0.57	7.03	0	0	1.69	1.69	0	0.4	0.4		1679	1679	0.02	0.06	2.34	1701
Vendor	0.1	0.05	1.77	0.81	0.01	0.01	0.43	0.44	0.01	0.12	0.13		1568	1568	0.07	0.22	1.76	1636
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.1	0.08	0.1	1.28	0	0	0.31	0.31	0	0.07	0.07		278	278	< 0.005	0.01	0.39	282
Vendor	0.02	0.01	0.32	0.15	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02		260	260	0.01	0.04	0.29	271
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.13. Paving (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.95	0.8	7.45	9.98	0.01	0.35		0.35	0.32		0.32		1511	1511	0.06	0.01		1517
Paving		0.64																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.95	0.8	7.45	9.98	0.01	0.35		0.35	0.32		0.32		1511	1511	0.06	0.01		1517
Paving		0.64																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.14	0.12	1.12	1.5	< 0.005	0.05		0.05	0.05		0.05		228	228	0.01	< 0.005		229
Paving		0.1																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.03	0.02	0.2	0.27	< 0.005	0.01		0.01	0.01		0.01		37.7	37.7	< 0.005	< 0.005		37.8
Paving		0.02																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.07	0.06	0.06	1.04	0	0	0.2	0.2	0	0.05	0.05		207	207	0.01	0.01	0.76	210
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.07	0.06	0.07	0.88	0	0	0.2	0.2	0	0.05	0.05		197	197	0.01	0.01	0.02	199
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	0.01	0.14	0	0	0.03	0.03	0	0.01	0.01		30.1	30.1	< 0.005	< 0.005	0.05	30.5
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.03	0	0	0.01	0.01	0	< 0.005	< 0.005		4.98	4.98	< 0.005	< 0.005	0.01	5.04
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.14. Paving (2025) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.23	0.23	7.21	10.6	0.01	0.09		0.09	0.08		0.08		1511	1511	0.06	0.01		1517
Paving		0.64																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.23	0.23	7.21	10.6	0.01	0.09		0.09	0.08		0.08		1511	1511	0.06	0.01		1517
Paving		0.64																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.03	0.03	1.09	1.6	< 0.005	0.01		0.01	0.01		0.01		228	228	0.01	< 0.005		229
Paving		0.1																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.01	0.01	0.2	0.29	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		37.7	37.7	< 0.005	< 0.005		37.8
Paving		0.02																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.07	0.06	0.06	1.04	0	0	0.2	0.2	0	0.05	0.05		207	207	0.01	0.01	0.76	210
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.07	0.06	0.07	0.88	0	0	0.2	0.2	0	0.05	0.05		197	197	0.01	0.01	0.02	199
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		

Worker	0.01	0.01	0.01	0.14	0	0	0.03	0.03	0	0.01	0.01		30.1	30.1	< 0.005	< 0.005	0.05	30.5
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.03	0	0	0.01	0.01	0	< 0.005	< 0.005		4.98	4.98	< 0.005	< 0.005	0.01	5.04
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.15. Architectural Coating (2027) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.82	0.68	4.99	6.75	0.01	0.11		0.11	0.11		0.11		801	801	0.03	0.01		804
Architectural Coatings		63.5																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road Equipment	0.12	0.1	0.75	1.02	< 0.005	0.02		0.02	0.02		0.02		121	121	< 0.005	< 0.005		121
Architectural Coatings		9.57																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.02	0.02	0.14	0.19	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		20	20	< 0.005	< 0.005		20.1
Architectural Coatings		1.75																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.48	0.42	0.41	7.1	0	0	1.55	1.55	0	0.36	0.36		1572	1572	0.07	0.06	4.9	1595
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	0.07	0.06	0.08	0.95	0	0	0.23	0.23	0	0.05	0.05		228	228	< 0.005	0.01	0.32	231
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.01	0.01	0.01	0.17	0	0	0.04	0.04	0	0.01	0.01		37.7	37.7	< 0.005	< 0.005	0.05	38.2
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.16. Architectural Coating (2027) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.02	0.02	1.07	0.96	< 0.005	0.03		0.03	0.03		0.03		134	134	0.01	< 0.005		134
Architectural Coatings		4.19																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road Equipment	< 0.005	< 0.005	0.16	0.15	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		20.1	20.1	< 0.005	< 0.005		20.2
Architectural Coatings		0.63																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		3.33	3.33	< 0.005	< 0.005		3.34
Architectural Coatings		0.12																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.48	0.42	0.41	7.1	0	0	1.55	1.55	0	0.36	0.36		1572	1572	0.07	0.06	4.9	1595
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	0.07	0.06	0.08	0.95	0	0	0.23	0.23	0	0.05	0.05		228	228	< 0.005	0.01	0.32	231
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.01	0.01	0.01	0.17	0	0	0.04	0.04	0	0.01	0.01		37.7	37.7	< 0.005	< 0.005	0.05	38.2
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.17. Trenching (2024) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	1.93	1.62	13.5	13.8	0.03	0.64		0.64	0.59		0.59		3454	3454	0.14	0.03		3466
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road Equipment	0.12	0.1	0.81	0.83	< 0.005	0.04		0.04	0.04		0.04		208	208	0.01	< 0.005		209
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.02	0.02	0.15	0.15	< 0.005	0.01		0.01	0.01		0.01		34.5	34.5	< 0.005	< 0.005		34.6
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.07	0.07	0.07	1.13	0	0	0.2	0.2	0	0.05	0.05		212	212	0.01	0.01	0.84	215
Vendor	0.02	0.01	0.23	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02		194	194	0.01	0.03	0.52	202
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	< 0.005	< 0.005	0.01	0.06	0	0	0.01	0.01	0	< 0.005	< 0.005		12.3	12.3	< 0.005	< 0.005	0.02	12.4
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		11.7	11.7	< 0.005	< 0.005	0.01	12.2
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.03	2.03	< 0.005	< 0.005	< 0.005	2.06
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		1.93	1.93	< 0.005	< 0.005	< 0.005	2.02
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.18. Trenching (2024) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.44	0.44	11.3	19.4	0.03	0.12		0.12	0.12		0.12		3454	3454	0.14	0.03		3466
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road Equipment	0.03	0.03	0.68	1.17	< 0.005	0.01		0.01	0.01		0.01		208	208	0.01	< 0.005		209
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	0.12	0.21	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		34.5	34.5	< 0.005	< 0.005		34.6
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.07	0.07	0.07	1.13	0	0	0.2	0.2	0	0.05	0.05		212	212	0.01	0.01	0.84	215
Vendor	0.02	0.01	0.23	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02		194	194	0.01	0.03	0.52	202
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	< 0.005	< 0.005	0.01	0.06	0	0	0.01	0.01	0	< 0.005	< 0.005		12.3	12.3	< 0.005	< 0.005	0.02	12.4
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		11.7	11.7	< 0.005	< 0.005	0.01	12.2
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.03	2.03	< 0.005	< 0.005	< 0.005	2.06
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		1.93	1.93	< 0.005	< 0.005	< 0.005	2.02
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.19. Trenching (2026) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	1.76	1.48	11.4	13.7	0.03	0.51		0.51	0.47		0.47		3457	3457	0.14	0.03		3469
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	1.76	1.48	11.4	13.7	0.03	0.51		0.51	0.47		0.47		3457	3457	0.14	0.03		3469
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.11	0.09	0.72	0.86	< 0.005	0.03		0.03	0.03		0.03		218	218	0.01	< 0.005		219
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.02	0.02	0.13	0.16	< 0.005	0.01		0.01	0.01		0.01		36.1	36.1	< 0.005	< 0.005		36.2
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		

Daily, Summer (Max)																		
Worker	0.06	0.06	0.06	0.97	0	0	0.2	0.2	0	0.05	0.05		203	203	0.01	0.01	0.69	206
Vendor	0.01	0.01	0.21	0.1	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02		187	187	0.01	0.03	0.51	196
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.06	0.05	0.07	0.83	0	0	0.2	0.2	0	0.05	0.05		193	193	0.01	0.01	0.02	195
Vendor	0.01	0.01	0.22	0.1	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02		187	187	0.01	0.03	0.01	195
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.01	0.01	0	< 0.005	< 0.005		12.3	12.3	< 0.005	< 0.005	0.02	12.5
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		11.8	11.8	< 0.005	< 0.005	0.01	12.3
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.04	2.04	< 0.005	< 0.005	< 0.005	2.07
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		1.95	1.95	< 0.005	< 0.005	< 0.005	2.04
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.20. Trenching (2026) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.44	0.44	11.3	19.4	0.03	0.12		0.12	0.12		0.12		3457	3457	0.14	0.03		3469
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.44	0.44	11.3	19.4	0.03	0.12		0.12	0.12		0.12		3457	3457	0.14	0.03		3469
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.03	0.03	0.71	1.22	< 0.005	0.01		0.01	0.01		0.01		218	218	0.01	< 0.005		219
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.01	0.01	0.13	0.22	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		36.1	36.1	< 0.005	< 0.005		36.2
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.06	0.06	0.06	0.97	0	0	0.2	0.2	0	0.05	0.05		203	203	0.01	0.01	0.69	206
Vendor	0.01	0.01	0.21	0.1	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02		187	187	0.01	0.03	0.51	196
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.06	0.05	0.07	0.83	0	0	0.2	0.2	0	0.05	0.05		193	193	0.01	0.01	0.02	195
Vendor	0.01	0.01	0.22	0.1	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02		187	187	0.01	0.03	0.01	195
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.01	0.01	0	< 0.005	< 0.005		12.3	12.3	< 0.005	< 0.005	0.02	12.5
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		11.8	11.8	< 0.005	< 0.005	0.01	12.3
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.04	2.04	< 0.005	< 0.005	< 0.005	2.07
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		1.95	1.95	< 0.005	< 0.005	< 0.005	2.04
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.21. Trenching (2027) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	1.7	1.43	10.7	13.6	0.03	0.47		0.47	0.43		0.43		3457	3457	0.14	0.03		3469
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road Equipment	0.1	0.09	0.65	0.82	< 0.005	0.03		0.03	0.03		0.03		208	208	0.01	< 0.005		209
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.02	0.02	0.12	0.15	< 0.005	0.01		0.01	< 0.005		< 0.005		34.5	34.5	< 0.005	< 0.005		34.6
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.06	0.05	0.05	0.9	0	0	0.2	0.2	0	0.05	0.05		199	199	0.01	0.01	0.62	202
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.01	0.01	0	< 0.005	< 0.005		11.6	11.6	< 0.005	< 0.005	0.02	11.7
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.91	1.91	< 0.005	< 0.005	< 0.005	1.94
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.22. Trenching (2027) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.44	0.44	11.3	19.4	0.03	0.12		0.12	0.12		0.12		3457	3457	0.14	0.03		3469
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road Equipment	0.03	0.03	0.68	1.17	< 0.005	0.01		0.01	0.01		0.01		208	208	0.01	< 0.005		209
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	0.12	0.21	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		34.5	34.5	< 0.005	< 0.005		34.6
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.06	0.05	0.05	0.9	0	0	0.2	0.2	0	0.05	0.05		199	199	0.01	0.01	0.62	202
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.01	0.01	0	< 0.005	< 0.005		11.6	11.6	< 0.005	< 0.005	0.02	11.7
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.91	1.91	< 0.005	< 0.005	< 0.005	1.94
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	ork Days per Pha	hase Description
Option 2 Rough Grading	Grading	46280	46310	5	23	
Option 2 Fine Grading	Grading	46583	46614	5	22	
Option 2 BESS Construction	Building Construction	45488	45823	5	240	
Option 2 Buildings 1 and 2 Construction	Building Construction	46280	46614	5	239	
Option 2 BESS Site Paving	Paving	45747	45823	5	55	
Option 2 Buildings 1 and 2 Architectural Coating	Architectural Coating	46538	46614	5	55	
Option 2 BESS Site Utility Trenching	Trenching	45488	45517	5	22	
Option 2 Buildings 1 and 2 Utility Trenching	Trenching	46280	46310	5	23	
Option 2 Finishing/Landscaping	Trenching	46583	46612	5	22	

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Option 2 Rough Grading	Excavators	Diesel	Average	2	8	36	0.38
Option 2 Rough Grading	Graders	Diesel	Average	1	8	148	0.41
Option 2 Rough Grading	Rubber Tired Dozers	Diesel	Average	1	8	367	0.4
Option 2 Rough Grading	Scrapers	Diesel	Average	2	8	423	0.48
Option 2 Rough Grading	Tractors/Loaders/Backhoes	Diesel	Average	2	8	84	0.37
Option 2 Fine Grading	Excavators	Diesel	Average	2	8	36	0.38
Option 2 Fine Grading	Graders	Diesel	Average	1	8	148	0.41
Option 2 Fine Grading	Rubber Tired Dozers	Diesel	Average	1	8	367	0.4
Option 2 Fine Grading	Scrapers	Diesel	Average	2	8	423	0.48
Option 2 Fine Grading	Tractors/Loaders/Backhoes	Diesel	Average	2	8	84	0.37
Option 2 BESS Construction	Cranes	Diesel	Average	1	7	367	0.29
Option 2 BESS Construction	Forklifts	Diesel	Average	3	8	82	0.2
Option 2 BESS Construction	Generator Sets	Diesel	Average	1	8	14	0.74
Option 2 BESS Construction	Tractors/Loaders/Backhoes	Diesel	Average	3	7	84	0.37
Option 2 BESS Construction	Welders	Diesel	Average	1	8	46	0.45
Option 2 Buildings 1 and 2 Construction	Cranes	Diesel	Average	1	7	367	0.29

Option 2 Buildings 1 and 2 Construction	Forklifts	Diesel	Average	3	8	82	0.2
Option 2 Buildings 1 and 2 Construction	Generator Sets	Diesel	Average	1	8	14	0.74
Option 2 Buildings 1 and 2 Construction	Tractors/Loaders/Backhoes	Diesel	Average	3	7	84	0.37
Option 2 Buildings 1 and 2 Construction	Welders	Diesel	Average	1	8	46	0.45
Option 2 BESS Site Paving	Pavers	Diesel	Average	2	8	81	0.42
Option 2 BESS Site Paving	Paving Equipment	Diesel	Average	2	8	89	0.36
Option 2 BESS Site Paving	Rollers	Diesel	Average	2	8	36	0.38
Option 2 Buildings 1 and 2 Architectural Co	Air Compressors	Diesel	Average	1	6	37	0.48
Option 2 BESS Site Utility Trenching	Cranes	Diesel	Average	1	8	367	0.29
Option 2 BESS Site Utility Trenching	Crawler Tractors	Diesel	Average	1	8	87	0.43
Option 2 BESS Site Utility Trenching	Excavators	Diesel	Average	2	8	36	0.38
Option 2 BESS Site Utility Trenching	Off-Highway Trucks	Diesel	Average	1	8	376	0.38
Option 2 BESS Site Utility Trenching	Rubber Tired Loaders	Diesel	Average	1	8	150	0.36
Option 2 Buildings 1 and 2 Utility Trenching	Cranes	Diesel	Average	1	8	367	0.29
Option 2 Buildings 1 and 2 Utility Trenching	Crawler Tractors	Diesel	Average	1	8	87	0.43
Option 2 Buildings 1 and 2 Utility Trenching	Excavators	Diesel	Average	2	8	36	0.38
Option 2 Buildings 1 and 2 Utility Trenching	Off-Highway Trucks	Diesel	Average	1	8	376	0.38
Option 2 Buildings 1 and 2 Utility Trenching	Rubber Tired Loaders	Diesel	Average	1	8	150	0.36
Option 2 Finishing/Landscaping	Cranes	Diesel	Average	1	8	367	0.29
Option 2 Finishing/Landscaping	Crawler Tractors	Diesel	Average	1	8	87	0.43
Option 2 Finishing/Landscaping	Excavators	Diesel	Average	2	8	36	0.38
Option 2 Finishing/Landscaping	Off-Highway Trucks	Diesel	Average	1	8	376	0.38
Option 2 Finishing/Landscaping	Rubber Tired Loaders	Diesel	Average	1	8	150	0.36

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Option 2 Rough Grading	Excavators	Diesel	Tier 4 Interim	2	8	36	0.38
Option 2 Rough Grading	Graders	Diesel	Tier 4 Interim	1	8	148	0.41
Option 2 Rough Grading	Rubber Tired Dozers	Diesel	Tier 4 Interim	1	8	367	0.4
Option 2 Rough Grading	Scrapers	Diesel	Tier 4 Interim	2	8	423	0.48
Option 2 Rough Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2	8	84	0.37
Option 2 Fine Grading	Excavators	Diesel	Tier 4 Interim	2	8	36	0.38
Option 2 Fine Grading	Graders	Diesel	Tier 4 Interim	1	8	148	0.41
Option 2 Fine Grading	Rubber Tired Dozers	Diesel	Tier 4 Interim	1	8	367	0.4
Option 2 Fine Grading	Scrapers	Diesel	Tier 4 Interim	2	8	423	0.48
Option 2 Fine Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2	8	84	0.37
Option 2 BESS Construction	Cranes	Diesel	Tier 4 Interim	1	7	367	0.29
Option 2 BESS Construction	Forklifts	Diesel	Tier 4 Interim	3	8	82	0.2
Option 2 BESS Construction	Generator Sets	Diesel	Average	1	8	14	0.74
Option 2 BESS Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	3	7	84	0.37
Option 2 BESS Construction	Welders	Diesel	Tier 4 Interim	1	8	46	0.45
Option 2 Buildings 1 and 2 Construction	Cranes	Diesel	Tier 4 Interim	1	7	367	0.29
Option 2 Buildings 1 and 2 Construction	Forklifts	Diesel	Tier 4 Interim	3	8	82	0.2
Option 2 Buildings 1 and 2 Construction	Generator Sets	Diesel	Average	1	8	14	0.74
Option 2 Buildings 1 and 2 Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	3	7	84	0.37
Option 2 Buildings 1 and 2 Construction	Welders	Diesel	Tier 4 Interim	1	8	46	0.45
Option 2 BESS Site Paving	Pavers	Diesel	Tier 4 Interim	2	8	81	0.42
Option 2 BESS Site Paving	Paving Equipment	Diesel	Tier 4 Interim	2	8	89	0.36
Option 2 BESS Site Paving	Rollers	Diesel	Tier 4 Interim	2	8	36	0.38
Option 2 Buildings 1 and 2 Architectural Coating	Air Compressors	Diesel	Tier 4 Interim	1	6	37	0.48
Option 2 BESS Site Utility Trenching	Cranes	Diesel	Tier 4 Interim	1	8	367	0.29
Option 2 BESS Site Utility Trenching	Crawler Tractors	Diesel	Tier 4 Interim	1	8	87	0.43
Option 2 BESS Site Utility Trenching	Excavators	Diesel	Tier 4 Interim	2	8	36	0.38
Option 2 BESS Site Utility Trenching	Off-Highway Trucks	Diesel	Tier 4 Interim	1	8	376	0.38
Option 2 BESS Site Utility Trenching	Rubber Tired Loaders	Diesel	Tier 4 Interim	1	8	150	0.36
Option 2 Buildings 1 and 2 Utility Trenching	Cranes	Diesel	Tier 4 Interim	1	8	367	0.29
Option 2 Buildings 1 and 2 Utility Trenching	Crawler Tractors	Diesel	Tier 4 Interim	1	8	87	0.43
Option 2 Buildings 1 and 2 Utility Trenching	Excavators	Diesel	Tier 4 Interim	2	8	36	0.38
Option 2 Buildings 1 and 2 Utility Trenching	Off-Highway Trucks	Diesel	Tier 4 Interim	1	8	376	0.38
Option 2 Buildings 1 and 2 Utility Trenching	Rubber Tired Loaders	Diesel	Tier 4 Interim	1	8	150	0.36
Option 2 Finishing/Landscaping	Cranes	Diesel	Tier 4 Interim	1	8	367	0.29
Option 2 Finishing/Landscaping	Crawler Tractors	Diesel	Tier 4 Interim	1	8	87	0.43
Option 2 Finishing/Landscaping	Excavators	Diesel	Tier 4 Interim	2	8	36	0.38
Option 2 Finishing/Landscaping	Off-Highway Trucks	Diesel	Tier 4 Interim	1	8	376	0.38
Option 2 Finishing/Landscaping	Rubber Tired Loaders	Diesel	Tier 4 Interim	1	8	150	0.36

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips p	Miles per Trip	Vehicle Mix
Option 2 Rough Grading				
Option 2 Rough Grading	Worker	20	18.5	LDA,LDT1,LDT2
Option 2 Rough Grading	Vendor	20	10.2	HHDT,MHDT
Option 2 Rough Grading	Hauling	0	20	HHDT
Option 2 Rough Grading	Onsite truck	0		HHDT
Option 2 BESS Construction				
Option 2 BESS Construction	Worker	296	18.5	LDA,LDT1,LDT2
Option 2 BESS Construction	Vendor	115	10.2	HHDT,MHDT
Option 2 BESS Construction	Hauling	0	20	HHDT
Option 2 BESS Construction	Onsite truck	0		HHDT
Option 2 BESS Site Paving				
Option 2 BESS Site Paving	Worker	15	18.5	LDA,LDT1,LDT2
Option 2 BESS Site Paving	Vendor	0	10.2	HHDT,MHDT
Option 2 BESS Site Paving	Hauling	0	20	HHDT
Option 2 BESS Site Paving	Onsite truck	0		HHDT
Option 2 Buildings 1 and 2 Architectural Coating				
Option 2 Buildings 1 and 2 Architectural Coating	Worker	118	18.5	LDA,LDT1,LDT2
Option 2 Buildings 1 and 2 Architectural Coating	Vendor	0	10.2	HHDT,MHDT
Option 2 Buildings 1 and 2 Architectural Coating	Hauling	0	20	HHDT
Option 2 Buildings 1 and 2 Architectural Coating	Onsite truck	0		HHDT
Option 2 Fine Grading				
Option 2 Fine Grading	Worker	20	18.5	LDA,LDT1,LDT2
Option 2 Fine Grading	Vendor	20	10.2	HHDT,MHDT
Option 2 Fine Grading	Hauling	0	20	HHDT
Option 2 Fine Grading	Onsite truck	0		HHDT
Option 2 Buildings 1 and 2 Construction				
Option 2 Buildings 1 and 2 Construction	Worker	296	18.5	LDA,LDT1,LDT2
Option 2 Buildings 1 and 2 Construction	Vendor	115	10.2	HHDT,MHDT
Option 2 Buildings 1 and 2 Construction	Hauling	0	20	HHDT
Option 2 Buildings 1 and 2 Construction	Onsite truck	0		HHDT
Option 2 BESS Site Utility Trenching				
Option 2 BESS Site Utility Trenching	Worker	15	18.5	LDA,LDT1,LDT2
Option 2 BESS Site Utility Trenching	Vendor	6	10.2	HHDT,MHDT
Option 2 BESS Site Utility Trenching	Hauling	0	20	HHDT
Option 2 BESS Site Utility Trenching	Onsite truck	0		HHDT
Option 2 Buildings 1 and 2 Utility Trenching				
Option 2 Buildings 1 and 2 Utility Trenching	Worker	15	18.5	LDA,LDT1,LDT2
Option 2 Buildings 1 and 2 Utility Trenching	Vendor	6	10.2	HHDT,MHDT

Option 2 Buildings 1 and 2 Utility Trenching	Hauling	0	20	HHDT
Option 2 Buildings 1 and 2 Utility Trenching	Onsite truck	0		HHDT
Option 2 Finishing/Landscaping				
Option 2 Finishing/Landscaping	Worker	15	18.5	LDA,LDT1,LDT2
Option 2 Finishing/Landscaping	Vendor	0	10.2	HHDT,MHDT
Option 2 Finishing/Landscaping	Hauling	0	20	HHDT
Option 2 Finishing/Landscaping	Onsite truck	0		HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips p	Miles per Trip	Vehicle Mix
Option 2 Rough Grading				
Option 2 Rough Grading	Worker	20	18.5	LDA,LDT1,LDT2
Option 2 Rough Grading	Vendor	20	10.2	HHDT,MHDT
Option 2 Rough Grading	Hauling	0	20	HHDT
Option 2 Rough Grading	Onsite truck	0		HHDT
Option 2 BESS Construction				
Option 2 BESS Construction	Worker	296	18.5	LDA,LDT1,LDT2
Option 2 BESS Construction	Vendor	115	10.2	HHDT,MHDT
Option 2 BESS Construction	Hauling	0	20	HHDT
Option 2 BESS Construction	Onsite truck	0		HHDT
Option 2 BESS Site Paving				
Option 2 BESS Site Paving	Worker	15	18.5	LDA,LDT1,LDT2
Option 2 BESS Site Paving	Vendor	0	10.2	HHDT,MHDT
Option 2 BESS Site Paving	Hauling	0	20	HHDT
Option 2 BESS Site Paving	Onsite truck	0		HHDT
Option 2 Buildings 1 and 2 Architectural Coating				
Option 2 Buildings 1 and 2 Architectural Coating	Worker	118	18.5	LDA,LDT1,LDT2
Option 2 Buildings 1 and 2 Architectural Coating	Vendor	0	10.2	HHDT,MHDT
Option 2 Buildings 1 and 2 Architectural Coating	Hauling	0	20	HHDT
Option 2 Buildings 1 and 2 Architectural Coating	Onsite truck	0		HHDT
Option 2 Fine Grading				
Option 2 Fine Grading	Worker	20	18.5	LDA,LDT1,LDT2
Option 2 Fine Grading	Vendor	20	10.2	HHDT,MHDT
Option 2 Fine Grading	Hauling	0	20	HHDT
Option 2 Fine Grading	Onsite truck	0		HHDT
Option 2 Buildings 1 and 2 Construction				
Option 2 Buildings 1 and 2 Construction	Worker	296	18.5	LDA,LDT1,LDT2
Option 2 Buildings 1 and 2 Construction	Vendor	115	10.2	HHDT,MHDT
Option 2 Buildings 1 and 2 Construction	Hauling	0	20	HHDT
Option 2 Buildings 1 and 2 Construction	Onsite truck	0		HHDT
Option 2 BESS Site Utility Trenching				
Option 2 BESS Site Utility Trenching	Worker	15	18.5	LDA,LDT1,LDT2
Option 2 BESS Site Utility Trenching	Vendor	6	10.2	HHDT,MHDT
Option 2 BESS Site Utility Trenching	Hauling	0	20	HHDT
Option 2 BESS Site Utility Trenching	Onsite truck	0		HHDT
Option 2 Buildings 1 and 2 Utility Trenching				
Option 2 Buildings 1 and 2 Utility Trenching	Worker	15	18.5	LDA,LDT1,LDT2
Option 2 Buildings 1 and 2 Utility Trenching	Vendor	6	10.2	HHDT,MHDT
Option 2 Buildings 1 and 2 Utility Trenching	Hauling	0	20	HHDT
Option 2 Buildings 1 and 2 Utility Trenching	Onsite truck	0		HHDT
Option 2 Finishing/Landscaping				
Option 2 Finishing/Landscaping	Worker	15	18.5	LDA,LDT1,LDT2
Option 2 Finishing/Landscaping	Vendor	0	10.2	HHDT,MHDT
Option 2 Finishing/Landscaping	Hauling	0	20	HHDT
Option 2 Finishing/Landscaping	Onsite truck	0		HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55	55
Limit vehicle speeds on unpaved roads to 25 mph	44	44
Sweep paved roads once per month	9	9

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Option 2 Buildings 1 and 2 Architectural Coating	0	0	1056105	352035	49662

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Option 2 Rough Grading	0	0	69	0	
Option 2 Fine Grading	0	0	66	0	
Option 2 BESS Site Paving	0	0	0	0	37.1

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61	61

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0	0
Parking Lot	13.3	100
Other Non-Asphalt Surfaces	4.14	0
Other Non-Asphalt Surfaces	19.7	0

5.8. Construction Electricity Consumption and Emissions Factors

Year	kWh per Year	CO2	CH4	N2O
2024	0	450	0.03	< 0.005
2025	0	450	0.03	< 0.005
2026	0	450	0.03	< 0.005
2027	0	450	0.03	< 0.005

8. User Changes to Default Data

Screen	Justification
Characteristics: Project Details	
Characteristics: Utility Information	2021 SCE Sustainability Report
Construction: Construction Phases	based on the construction schedule provided by the applicant
Construction: Off-Road Equipment	Building 1 Trenching, Buildings 2 and 3 Trenching, and Finishing/Landscaping equipment based on equipment mix approved by Applicant
Construction: Trips and VMT	see assumptions file for water truck trips calculations
Land Use	modified lot acreage adjusted to account for multiple stories
Construction: Architectural Coatings	SCAQMD Rule 1113. Parking area only accounts for parking lots to be striped
Construction: Electricity	2021 SCE Sustainability Report

Construction (Offsite Improvements)

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Irwindale Gateway Project (Offsite Improvements)
Construction Start Date	1/1/2025
Lead Agency	
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.8
Precipitation (days)	22.4
Location	13620 Live Oak Ln, Irwindale, CA 91706, USA
County	Los Angeles-South Coast
City	Irwindale
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4900
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.12

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Road Construction	0.36	Mile		4.11	0			

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	3.91	3.27	28.3	31.9	0.07	1.22	1.85	3.07	1.12	0.28	1.4		7704	7704	0.31	0.18	3.69	7768
Mit.	0.95	0.87	7.19	40.1	0.07	0.18	1.85	1.98	0.17	0.28	0.41		7704	7704	0.31	0.18	3.69	7768
% Reduced	75.7	73.4	74.6	−25.5		85.3		35.4	84.8		70.6							
Daily, Winter (Max)																		
Unmit.	3.9	3.26	28.4	31.6	0.07	1.22	1.85	3.07	1.12	0.28	1.4		7682	7682	0.31	0.18	0.1	7744
Mit.	0.95	0.87	7.25	39.8	0.07	0.18	1.85	1.98	0.17	0.28	0.41		7682	7682	0.31	0.18	0.1	7744
% Reduced	75.7	73.5	74.5	−25.8		85.3		35.4	84.8		70.6							
Average Daily (Max)																		
Unmit.	2.12	1.77	15.5	17.4	0.04	0.65	0.97	1.63	0.6	0.15	0.75		4175	4175	0.17	0.09	0.85	4208
Mit.	0.51	0.47	4.01	21.8	0.04	0.08	0.97	1.06	0.08	0.15	0.23		4175	4175	0.17	0.09	0.85	4208
% Reduced	76	73.2	74.1	−25.2		87.2		35	86.7		69.2							
Annual (Max)																		
Unmit.	0.39	0.32	2.83	3.18	0.01	0.12	0.18	0.3	0.11	0.03	0.14		691	691	0.03	0.02	0.14	697
Mit.	0.09	0.09	0.73	3.98	0.01	0.02	0.18	0.19	0.01	0.03	0.04		691	691	0.03	0.02	0.14	697
% Reduced	76	73.2	74.1	−25.2		87.2		35	86.7		69.2							

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2025	3.91	3.27	28.3	31.9	0.07	1.22	1.85	3.07	1.12	0.28	1.4		7704	7704	0.31	0.18	3.69	7768
Daily - Winter (Max)																		
2025	3.9	3.26	28.4	31.6	0.07	1.22	1.85	3.07	1.12	0.28	1.4		7682	7682	0.31	0.18	0.1	7744
2026	1.08	0.91	7.45	11.7	0.01	0.3	0.23	0.53	0.28	0.05	0.33		1844	1844	0.08	0.02	0.02	1852
Average Daily																		
2025	2.12	1.77	15.5	17.4	0.04	0.65	0.97	1.63	0.6	0.15	0.75		4175	4175	0.17	0.09	0.85	4208
2026	< 0.005	< 0.005	0.03	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		7.23	7.23	< 0.005	< 0.005	< 0.005	7.26
Annual																		
2025	0.39	0.32	2.83	3.18	0.01	0.12	0.18	0.3	0.11	0.03	0.14		691	691	0.03	0.02	0.14	697
2026	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		1.2	1.2	< 0.005	< 0.005	< 0.005	1.2

2.3. Construction Emissions by Year, Mitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2025	0.95	0.87	7.19	40.1	0.07	0.18	1.85	1.98	0.17	0.28	0.41		7704	7704	0.31	0.18	3.69	7768
Daily - Winter (Max)																		
2025	0.95	0.87	7.25	39.8	0.07	0.18	1.85	1.98	0.17	0.28	0.41		7682	7682	0.31	0.18	0.1	7744
2026	0.25	0.24	2.65	12.3	0.01	0.03	0.23	0.26	0.03	0.05	0.08		1844	1844	0.08	0.02	0.02	1852
Average Daily																		
2025	0.51	0.47	4.01	21.8	0.04	0.08	0.97	1.06	0.08	0.15	0.23		4175	4175	0.17	0.09	0.85	4208
2026	< 0.005	< 0.005	0.01	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		7.23	7.23	< 0.005	< 0.005	< 0.005	7.26
Annual																		
2025	0.09	0.09	0.73	3.98	0.01	0.02	0.18	0.19	0.01	0.03	0.04		691	691	0.03	0.02	0.14	697
2026	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		1.2	1.2	< 0.005	< 0.005	< 0.005	1.2

3. Construction Emissions Details

3.1. Linear, Grubbing & Land Clearing (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Equipment	0.46	0.39	3.39	3.49	< 0.005	0.21		0.21	0.19		0.19		490	490	0.02	< 0.005		492
Dust From Material Movement							0.21	0.21		0.02	0.02							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.03	0.03	0.24	0.25	< 0.005	0.01		0.01	0.01		0.01		34.9	34.9	< 0.005	< 0.005		35
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.01	0.01	0.04	0.05	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		5.78	5.78	< 0.005	< 0.005		5.8
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.02	0.02	0.02	0.29	0	0	0.07	0.07	0	0.02	0.02		65.5	65.5	< 0.005	< 0.005	0.01	66.4
Vendor	0.01	< 0.005	0.15	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01		127	127	0.01	0.02	0.01	132
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		4.74	4.74	< 0.005	< 0.005	0.01	4.8
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		9.04	9.04	< 0.005	< 0.005	0.01	9.44
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.78	0.78	< 0.005	< 0.005	< 0.005	0.79
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		1.5	1.5	< 0.005	< 0.005	< 0.005	1.56
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.2. Linear, Grubbing & Land Clearing (2025) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Equipment	0.05	0.05	0.84	3.43	< 0.005	0.01		0.01	0.01		0.01		490	490	0.02	< 0.005		492
Dust From Material Movement							0.21	0.21		0.02	0.02							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	< 0.005	< 0.005	0.06	0.24	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		34.9	34.9	< 0.005	< 0.005		35
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	0.01	0.04	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		5.78	5.78	< 0.005	< 0.005		5.8
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.02	0.02	0.02	0.29	0	0	0.07	0.07	0	0.02	0.02		65.5	65.5	< 0.005	< 0.005	0.01	66.4
Vendor	0.01	< 0.005	0.15	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01		127	127	0.01	0.02	0.01	132
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		4.74	4.74	< 0.005	< 0.005	0.01	4.8
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		9.04	9.04	< 0.005	< 0.005	0.01	9.44
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.78	0.78	< 0.005	< 0.005	< 0.005	0.79
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		1.5	1.5	< 0.005	< 0.005	< 0.005	1.56
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.3. Linear, Grading & Excavation (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		

Off-Road Equipment	3.71	3.11	27.3	29.4	0.06	1.21		1.21	1.11		1.11		6496	6496	0.26	0.05		6518
Dust From Material Movement							1.24	1.24		0.13	0.13							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	3.71	3.11	27.3	29.4	0.06	1.21		1.21	1.11		1.11		6496	6496	0.26	0.05		6518
Dust From Material Movement							1.24	1.24		0.13	0.13							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	1.33	1.12	9.79	10.6	0.02	0.43		0.43	0.4		0.4		2331	2331	0.09	0.02		2339
Dust From Material Movement							0.45	0.45		0.05	0.05							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.24	0.2	1.79	1.93	< 0.005	0.08		0.08	0.07		0.07		386	386	0.02	< 0.005		387
Dust From Material Movement							0.08	0.08		0.01	0.01							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.14	0.13	0.13	2.09	0	0	0.39	0.39	0	0.09	0.09		415	415	0.02	0.01	1.52	421
Vendor	0.06	0.02	0.9	0.44	0.01	0.01	0.21	0.23	0.01	0.06	0.06		793	793	0.03	0.11	2.17	829
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.14	0.13	0.14	1.77	0	0	0.39	0.39	0	0.09	0.09		393	393	0.02	0.01	0.04	398
Vendor	0.06	0.02	0.94	0.45	0.01	0.01	0.21	0.23	0.01	0.06	0.06		794	794	0.03	0.11	0.06	828
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.05	0.05	0.06	0.67	0	0	0.14	0.14	0	0.03	0.03		143	143	0.01	0.01	0.24	145
Vendor	0.02	0.01	0.34	0.16	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02		285	285	0.01	0.04	0.34	297
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.01	0.01	0.01	0.12	0	0	0.03	0.03	0	0.01	0.01		23.7	23.7	< 0.005	< 0.005	0.04	24
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		47.1	47.1	< 0.005	0.01	0.06	49.2
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.4. Linear, Grading & Excavation (2025) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.66	0.66	6.16	37.5	0.06	0.12		0.12	0.12		0.12		6496	6496	0.26	0.05		6518
Dust From Material Movement							1.24	1.24		0.13	0.13							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.66	0.66	6.16	37.5	0.06	0.12		0.12	0.12		0.12		6496	6496	0.26	0.05		6518
Dust From Material Movement							1.24	1.24		0.13	0.13							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.24	0.24	2.21	13.5	0.02	0.04		0.04	0.04		0.04		2331	2331	0.09	0.02		2339
Dust From Material Movement							0.45	0.45		0.05	0.05							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.04	0.04	0.4	2.46	< 0.005	0.01		0.01	0.01		0.01		386	386	0.02	< 0.005		387
Dust From Material Movement							0.08	0.08		0.01	0.01							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.14	0.13	0.13	2.09	0	0	0.39	0.39	0	0.09	0.09		415	415	0.02	0.01	1.52	421
Vendor	0.06	0.02	0.9	0.44	0.01	0.01	0.21	0.23	0.01	0.06	0.06		793	793	0.03	0.11	2.17	829
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.14	0.13	0.14	1.77	0	0	0.39	0.39	0	0.09	0.09		393	393	0.02	0.01	0.04	398
Vendor	0.06	0.02	0.94	0.45	0.01	0.01	0.21	0.23	0.01	0.06	0.06		794	794	0.03	0.11	0.06	828
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.05	0.05	0.06	0.67	0	0	0.14	0.14	0	0.03	0.03		143	143	0.01	0.01	0.24	145
Vendor	0.02	0.01	0.34	0.16	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02		285	285	0.01	0.04	0.34	297
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.01	0.01	0.01	0.12	0	0	0.03	0.03	0	0.01	0.01		23.7	23.7	< 0.005	< 0.005	0.04	24
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		47.1	47.1	< 0.005	0.01	0.06	49.2
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.5. Linear, Drainage, Utilities, & Sub-Grade (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	2.99	2.51	22.9	23.6	0.05	0.91		0.91	0.84		0.84		5694	5694	0.23	0.05		5713
Dust From Material Movement							1.03	1.03		0.11	0.11							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	2.99	2.51	22.9	23.6	0.05	0.91		0.91	0.84		0.84		5694	5694	0.23	0.05		5713
Dust From Material Movement							1.03	1.03		0.11	0.11							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.53	0.45	4.08	4.21	0.01	0.16		0.16	0.15		0.15		1014	1014	0.04	0.01		1017
Dust From Material Movement							0.18	0.18		0.02	0.02							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.1	0.08	0.75	0.77	< 0.005	0.03		0.03	0.03		0.03		168	168	0.01	< 0.005		168
Dust From Material Movement							0.03	0.03		< 0.005	< 0.005							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.12	0.11	0.11	1.74	0	0	0.33	0.33	0	0.08	0.08		346	346	0.01	0.01	1.27	351
Vendor	0.04	0.02	0.65	0.32	< 0.005	0.01	0.15	0.16	< 0.005	0.04	0.05		571	571	0.02	0.08	1.56	597
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.12	0.11	0.12	1.47	0	0	0.33	0.33	0	0.08	0.08		328	328	0.02	0.01	0.03	332
Vendor	0.04	0.02	0.68	0.32	< 0.005	0.01	0.15	0.16	< 0.005	0.04	0.05		571	571	0.02	0.08	0.04	596
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.02	0.02	0.02	0.28	0	0	0.06	0.06	0	0.01	0.01		59.2	59.2	< 0.005	< 0.005	0.1	60
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		102	102	< 0.005	0.01	0.12	106
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.01	0.01	0	< 0.005	< 0.005		9.8	9.8	< 0.005	< 0.005	0.02	9.93
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005		16.8	16.8	< 0.005	< 0.005	0.02	17.6
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.6. Linear, Drainage, Utilities, & Sub-Grade (2025) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.79	0.74	5.13	31.6	0.05	0.17		0.17	0.17		0.17		5694	5694	0.23	0.05		5713
Dust From Material Movement							1.03	1.03		0.11	0.11							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.79	0.74	5.13	31.6	0.05	0.17		0.17	0.17		0.17		5694	5694	0.23	0.05		5713
Dust From Material Movement							1.03	1.03		0.11	0.11							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.14	0.13	0.91	5.63	0.01	0.03		0.03	0.03		0.03		1014	1014	0.04	0.01		1017
Dust From Material Movement							0.18	0.18		0.02	0.02							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.03	0.02	0.17	1.03	< 0.005	0.01		0.01	0.01		0.01		168	168	0.01	< 0.005		168
Dust From Material Movement							0.03	0.03		< 0.005	< 0.005							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.12	0.11	0.11	1.74	0	0	0.33	0.33	0	0.08	0.08		346	346	0.01	0.01	1.27	351
Vendor	0.04	0.02	0.65	0.32	< 0.005	0.01	0.15	0.16	< 0.005	0.04	0.05		571	571	0.02	0.08	1.56	597
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.12	0.11	0.12	1.47	0	0	0.33	0.33	0	0.08	0.08		328	328	0.02	0.01	0.03	332
Vendor	0.04	0.02	0.68	0.32	< 0.005	0.01	0.15	0.16	< 0.005	0.04	0.05		571	571	0.02	0.08	0.04	596
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.02	0.02	0.02	0.28	0	0	0.06	0.06	0	0.01	0.01		59.2	59.2	< 0.005	< 0.005	0.1	60
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		102	102	< 0.005	0.01	0.12	106
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.01	0.01	0	< 0.005	< 0.005		9.8	9.8	< 0.005	< 0.005	0.02	9.93
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005		16.8	16.8	< 0.005	< 0.005	0.02	17.6
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.7. Linear, Paving (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		

Off-Road Equipment	1.06	0.89	7.71	10.8	0.01	0.34		0.34	0.31		0.31		1620	1620	0.07	0.01		1625
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.11	0.09	0.8	1.12	< 0.005	0.04		0.04	0.03		0.03		168	168	0.01	< 0.005		169
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.02	0.02	0.15	0.2	< 0.005	0.01		0.01	0.01		0.01		27.8	27.8	< 0.005	< 0.005		27.9
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.08	0.07	0.08	1.03	0	0	0.23	0.23	0	0.05	0.05		229	229	0.01	0.01	0.02	232
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	0.01	0.11	0	0	0.02	0.02	0	0.01	0.01		24.1	24.1	< 0.005	< 0.005	0.04	24.5
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		4	4	< 0.005	< 0.005	0.01	4.05
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.8. Linear, Paving (2025) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Equipment	0.18	0.18	2.58	11.3	0.01	0.03		0.03	0.03		0.03		1620	1620	0.07	0.01		1625
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.02	0.02	0.27	1.18	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		168	168	0.01	< 0.005		169
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	0.05	0.21	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		27.8	27.8	< 0.005	< 0.005		27.9
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.08	0.07	0.08	1.03	0	0	0.23	0.23	0	0.05	0.05		229	229	0.01	0.01	0.02	232
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	0.01	0.11	0	0	0.02	0.02	0	0.01	0.01		24.1	24.1	< 0.005	< 0.005	0.04	24.5
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		4	4	< 0.005	< 0.005	0.01	4.05
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.9. Linear, Paving (2026) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Equipment	1	0.84	7.37	10.8	0.01	0.3		0.3	0.28		0.28		1619	1619	0.07	0.01		1625
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		6.34	6.34	< 0.005	< 0.005		6.36
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		1.05	1.05	< 0.005	< 0.005		1.05
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.07	0.06	0.08	0.96	0	0	0.23	0.23	0	0.05	0.05		225	225	0.01	0.01	0.02	228
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.89	0.89	< 0.005	< 0.005	< 0.005	0.9
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.15	0.15	< 0.005	< 0.005	< 0.005	0.15
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.10. Linear, Paving (2026) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Equipment	0.18	0.18	2.58	11.3	0.01	0.03		0.03	0.03		0.03		1619	1619	0.07	0.01		1625
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	< 0.005	< 0.005	0.01	0.04	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		6.34	6.34	< 0.005	< 0.005		6.36
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		1.05	1.05	< 0.005	< 0.005		1.05
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.07	0.06	0.08	0.96	0	0	0.23	0.23	0	0.05	0.05		225	225	0.01	0.01	0.02	228
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.89	0.89	< 0.005	< 0.005	< 0.005	0.9
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.15	0.15	< 0.005	< 0.005	< 0.005	0.15
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Description
Linear, Grubbing & Land Clearing	Linear, Grubbing & Land Clearing	45658	45694	5	26	
Linear, Grading & Excavation	Linear, Grading & Excavation	45695	45877	5	131	
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	45878	45969	5	65	
Linear, Paving	Linear, Paving	45970	46024	5	40	

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Linear, Grubbing & Land Clearing	Signal Boards	Electric	Average	0	8	6	0.82
Linear, Grubbing & Land Clearing	Crawler Tractors	Diesel	Average	1	8	87	0.43
Linear, Grubbing & Land Clearing	Excavators	Diesel	Average	1	8	36	0.38
Linear, Grading & Excavation	Excavators	Diesel	Average	3	8	36	0.38
Linear, Grading & Excavation	Crawler Tractors	Diesel	Average	1	8	87	0.43
Linear, Grading & Excavation	Graders	Diesel	Average	1	8	148	0.41
Linear, Grading & Excavation	Rollers	Diesel	Average	2	8	36	0.38
Linear, Grading & Excavation	Signal Boards	Electric	Average	0	8	6	0.82
Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Average	2	8	84	0.37
Linear, Grading & Excavation	Rubber Tired Loaders	Diesel	Average	1	8	150	0.36
Linear, Grading & Excavation	Scrapers	Diesel	Average	2	8	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Scrapers	Diesel	Average	2	8	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Rough Terrain Forklifts	Diesel	Average	1	8	96	0.4
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	Electric	Average	0	8	6	0.82
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Average	2	8	84	0.37
Linear, Drainage, Utilities, & Sub-Grade	Plate Compactors	Diesel	Average	1	8	8	0.43
Linear, Drainage, Utilities, & Sub-Grade	Pumps	Diesel	Average	1	8	11	0.74
Linear, Drainage, Utilities, & Sub-Grade	Graders	Diesel	Average	1	8	148	0.41
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	Diesel	Average	1	8	37	0.48
Linear, Drainage, Utilities, & Sub-Grade	Generator Sets	Diesel	Average	1	8	14	0.74

Linear, Paving	Rollers	Diesel	Average	3	8	36	0.38
Linear, Paving	Paving Equipment	Diesel	Average	1	8	89	0.36
Linear, Paving	Pavers	Diesel	Average	1	8	81	0.42
Linear, Paving	Signal Boards	Electric	Average	0	8	6	0.82
Linear, Paving	Tractors/Loaders/Backhoes	Diesel	Average	2	8	84	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Linear, Grubbing & Land Clearing	Signal Boards	Electric	Average	0	8	6	0.82
Linear, Grubbing & Land Clearing	Crawler Tractors	Diesel	Tier 4 Final	1	8	87	0.43
Linear, Grubbing & Land Clearing	Excavators	Diesel	Tier 4 Final	1	8	36	0.38
Linear, Grading & Excavation	Excavators	Diesel	Tier 4 Final	3	8	36	0.38
Linear, Grading & Excavation	Crawler Tractors	Diesel	Tier 4 Final	1	8	87	0.43
Linear, Grading & Excavation	Graders	Diesel	Tier 4 Final	1	8	148	0.41
Linear, Grading & Excavation	Rollers	Diesel	Tier 4 Final	2	8	36	0.38
Linear, Grading & Excavation	Signal Boards	Electric	Average	0	8	6	0.82
Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2	8	84	0.37
Linear, Grading & Excavation	Rubber Tired Loaders	Diesel	Tier 4 Final	1	8	150	0.36
Linear, Grading & Excavation	Scrapers	Diesel	Tier 4 Final	2	8	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Scrapers	Diesel	Tier 4 Final	2	8	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Rough Terrain Forklifts	Diesel	Tier 4 Final	1	8	96	0.4
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	Electric	Average	0	8	6	0.82
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2	8	84	0.37
Linear, Drainage, Utilities, & Sub-Grade	Plate Compactors	Diesel	Average	1	8	8	0.43
Linear, Drainage, Utilities, & Sub-Grade	Pumps	Diesel	Average	1	8	11	0.74
Linear, Drainage, Utilities, & Sub-Grade	Graders	Diesel	Tier 4 Final	1	8	148	0.41
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	Diesel	Tier 4 Final	1	8	37	0.48
Linear, Drainage, Utilities, & Sub-Grade	Generator Sets	Diesel	Average	1	8	14	0.74
Linear, Paving	Rollers	Diesel	Tier 4 Final	3	8	36	0.38
Linear, Paving	Paving Equipment	Diesel	Tier 4 Final	1	8	89	0.36
Linear, Paving	Pavers	Diesel	Tier 4 Final	1	8	81	0.42
Linear, Paving	Signal Boards	Electric	Average	0	8	6	0.82
Linear, Paving	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2	8	84	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	ne-Way Trips per D	Miles per Trip	Vehicle Mix
Linear, Grubbing & Land Clearing				
Linear, Grubbing & Land Clearing	Worker	5	18.5	LDA,LDT1,LDT2
Linear, Grubbing & Land Clearing	Vendor	4	10.2	HHDT,MHDT
Linear, Grubbing & Land Clearing	Hauling	0	20	HHDT
Linear, Grubbing & Land Clearing	Onsite truck	0		HHDT
Linear, Grading & Excavation				
Linear, Grading & Excavation	Worker	30	18.5	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	25	10.2	HHDT,MHDT
Linear, Grading & Excavation	Hauling	0	20	HHDT
Linear, Grading & Excavation	Onsite truck	0		HHDT
Linear, Drainage, Utilities, & Sub-Grade				
Linear, Drainage, Utilities, & Sub-Grade	Worker	25	18.5	LDA,LDT1,LDT2
Linear, Drainage, Utilities, & Sub-Grade	Vendor	18	10.2	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	0	20	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	0		HHDT
Linear, Paving				
Linear, Paving	Worker	17.5	18.5	LDA,LDT1,LDT2
Linear, Paving	Vendor	0	10.2	HHDT,MHDT
Linear, Paving	Hauling	0	20	HHDT
Linear, Paving	Onsite truck	0		HHDT

5.3.2. Mitigated

Phase Name	Trip Type	ne-Way Trips per D	Miles per Trip	Vehicle Mix
Linear, Grubbing & Land Clearing				
Linear, Grubbing & Land Clearing	Worker	5	18.5	LDA,LDT1,LDT2
Linear, Grubbing & Land Clearing	Vendor	4	10.2	HHDT,MHDT
Linear, Grubbing & Land Clearing	Hauling	0	20	HHDT
Linear, Grubbing & Land Clearing	Onsite truck	0		HHDT
Linear, Grading & Excavation				
Linear, Grading & Excavation	Worker	30	18.5	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	25	10.2	HHDT,MHDT
Linear, Grading & Excavation	Hauling	0	20	HHDT
Linear, Grading & Excavation	Onsite truck	0		HHDT
Linear, Drainage, Utilities, & Sub-Grade				
Linear, Drainage, Utilities, & Sub-Grade	Worker	25	18.5	LDA,LDT1,LDT2
Linear, Drainage, Utilities, & Sub-Grade	Vendor	18	10.2	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	0	20	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	0		HHDT
Linear, Paving				
Linear, Paving	Worker	17.5	18.5	LDA,LDT1,LDT2
Linear, Paving	Vendor	0	10.2	HHDT,MHDT
Linear, Paving	Hauling	0	20	HHDT
Linear, Paving	Onsite truck	0		HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55	55
Limit vehicle speeds on unpaved roads to 25 n	44	44
Sweep paved roads once per month	9	9

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Linear, Grubbing & Land Clearing	0	0	4.11	0	
Linear, Grading & Excavation	0	0	4.11	0	
Linear, Drainage, Utilities, & Sub-Grade	0	0	4.11	0	

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61	61

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Road Construction	4.11	100

5.8. Construction Electricity Consumption and Emissions Factors

Year	kWh per Year	CO2	CH4	N2O
2025	0	450	0.03	< 0.005
2026	0	450	0.03	< 0.005

8. User Changes to Default Data

Screen	Justification
Characteristics: Project Details	
Characteristics: Utility Information	Based on 2021 SCE Sustainability Report
Construction: Construction Phases	based on information verified by applicant
Construction: Trips and VMT	see calculations for water truck trips in assumptions file
Construction: Electricity	2021 SCE Sustainability Report

Construction (Sewer Main and Storm Drain)

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Irwindale Gateway Project (Sewer Main and Storm Drain - Private) (Tier 4 Final)
Construction Start Date	9/15/2026
Lead Agency	
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.8
Precipitation (days)	22.4
Location	13620 Live Oak Ln, Irwindale, CA 91706, USA
County	Los Angeles-South Coast
City	Irwindale
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4900
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.12

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Other Asphalt Surfaces	18.4	1000sqft	0.42	0	0	0		
Other Non-Asphalt Surfaces	65.5	1000sqft	1.5	0	0	0		

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	2.16	1.87	15.2	21.9	0.03	0.54	0.8	1.23	0.49	0.11	0.6		3911	3911	0.16	0.07	1.6	3934
Mit.	0.82	0.8	7.01	23.9	0.03	0.14	0.8	0.86	0.13	0.11	0.24		3911	3911	0.16	0.07	1.6	3934
% Reduced	62.2	57.2	53.9	–8.97		73.9		30.2	73		60.2							
Daily, Winter (Max)																		
Unmit.	1.37	1.15	9.75	12.7	0.02	0.33	0.24	0.58	0.31	0.06	0.37		2463	2463	0.1	0.04	0.03	2478
Mit.	0.57	0.51	4.81	14.2	0.02	0.11	0.24	0.35	0.1	0.06	0.16		2463	2463	0.1	0.04	0.03	2478
% Reduced	58.5	55.5	50.6	–11.8		68.6		39.7	67.8		57							
Average Daily (Max)																		
Unmit.	0.62	0.52	4.39	5.96	0.01	0.14	0.11	0.26	0.13	0.03	0.16		1139	1139	0.04	0.02	0.2	1146
Mit.	0.26	0.23	2.19	6.64	0.01	0.05	0.11	0.16	0.04	0.03	0.07		1139	1139	0.04	0.02	0.2	1146
% Reduced	58.5	55.2	50.1	–11.5		68.1		38	67.1		55.6							
Annual (Max)																		
Unmit.	0.11	0.09	0.8	1.09	< 0.005	0.03	0.02	0.05	0.02	< 0.005	0.03		189	189	0.01	< 0.005	0.03	190
Mit.	0.05	0.04	0.4	1.21	< 0.005	0.01	0.02	0.03	0.01	< 0.005	0.01		189	189	0.01	< 0.005	0.03	190
% Reduced	58.5	55.2	50.1	–11.5		68.1		38	67.1		55.6							

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2026	1.39	1.16	10.2	12.9	0.03	0.43	0.8	1.23	0.39	0.11	0.51		3129	3129	0.13	0.07	1.19	3155
2027	2.16	1.87	15.2	21.9	0.03	0.54	0.44	0.98	0.49	0.1	0.6		3911	3911	0.16	0.06	1.6	3934
Daily - Winter (Max)																		
2026	1.37	1.15	9.75	12.7	0.02	0.33	0.24	0.58	0.31	0.06	0.37		2463	2463	0.1	0.04	0.03	2478
2027	1.33	1.11	9.45	12.7	0.02	0.31	0.24	0.55	0.28	0.06	0.34		2457	2457	0.09	0.04	0.03	2471
Average Daily																		
2026	0.29	0.24	2.08	2.69	< 0.005	0.07	0.06	0.13	0.07	0.01	0.08		534	534	0.02	0.01	0.1	537
2027	0.62	0.52	4.39	5.96	0.01	0.14	0.11	0.26	0.13	0.03	0.16		1139	1139	0.04	0.02	0.2	1146
Annual																		
2026	0.05	0.04	0.38	0.49	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01		88.4	88.4	< 0.005	< 0.005	0.02	89
2027	0.11	0.09	0.8	1.09	< 0.005	0.03	0.02	0.05	0.02	< 0.005	0.03		189	189	0.01	< 0.005	0.03	190

2.3. Construction Emissions by Year, Mitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2026	0.57	0.51	4.8	15.7	0.03	0.11	0.8	0.86	0.1	0.11	0.17		3129	3129	0.13	0.07	1.19	3155
2027	0.82	0.8	7.01	23.9	0.03	0.14	0.44	0.58	0.13	0.1	0.24		3911	3911	0.16	0.06	1.6	3934
Daily - Winter (Max)																		
2026	0.57	0.51	4.81	14.2	0.02	0.11	0.24	0.35	0.1	0.06	0.16		2463	2463	0.1	0.04	0.03	2478
2027	0.56	0.5	4.79	14.2	0.02	0.1	0.24	0.34	0.1	0.06	0.15		2457	2457	0.09	0.04	0.03	2471
Average Daily																		
2026	0.12	0.1	0.97	3.05	< 0.005	0.02	0.06	0.08	0.02	0.01	0.03		534	534	0.02	0.01	0.1	537
2027	0.26	0.23	2.19	6.64	0.01	0.05	0.11	0.16	0.04	0.03	0.07		1139	1139	0.04	0.02	0.2	1146
Annual																		
2026	0.02	0.02	0.18	0.56	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01		88.4	88.4	< 0.005	< 0.005	0.02	89
2027	0.05	0.04	0.4	1.21	< 0.005	0.01	0.02	0.03	0.01	< 0.005	0.01		189	189	0.01	< 0.005	0.03	190

3. Construction Emissions Details

3.1. Site Preparation (2026) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	1.34	1.13	9.84	10.8	0.03	0.42		0.42	0.39		0.39		2716	2716	0.11	0.02		2725
Dust From Material Movement							0.62	0.62		0.07	0.07							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road Equipment	0.02	0.02	0.16	0.18	< 0.005	0.01		0.01	0.01		0.01		44.6	44.6	< 0.005	< 0.005		44.8
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		7.39	7.39	< 0.005	< 0.005		7.42
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.03	0.03	0.03	0.48	0	0	0.1	0.1	0	0.02	0.02		102	102	< 0.005	< 0.005	0.34	103
Vendor	0.02	0.01	0.34	0.17	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03		312	312	0.01	0.04	0.84	326
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.61	1.61	< 0.005	< 0.005	< 0.005	1.63
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		5.13	5.13	< 0.005	< 0.005	0.01	5.36
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.27	0.27	< 0.005	< 0.005	< 0.005	0.27
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		0.85	0.85	< 0.005	< 0.005	< 0.005	0.89
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.2. Site Preparation (2026) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.26	0.26	1.33	15	0.03	0.05		0.05	0.05		0.05		2716	2716	0.11	0.02		2725
Dust From Material Movement							0.62	0.62		0.07	0.07							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road Equipment	< 0.005	< 0.005	0.02	0.25	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		44.6	44.6	< 0.005	< 0.005		44.8
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.05	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		7.39	7.39	< 0.005	< 0.005		7.42
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.03	0.03	0.03	0.48	0	0	0.1	0.1	0	0.02	0.02		102	102	< 0.005	< 0.005	0.34	103
Vendor	0.02	0.01	0.34	0.17	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03		312	312	0.01	0.04	0.84	326
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.61	1.61	< 0.005	< 0.005	< 0.005	1.63
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		5.13	5.13	< 0.005	< 0.005	0.01	5.36
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.27	0.27	< 0.005	< 0.005	< 0.005	0.27
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		0.85	0.85	< 0.005	< 0.005	< 0.005	0.89
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.3. Building Construction (2026) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e

Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.91	0.76	6.67	8.03	0.02	0.25		0.25	0.23		0.23		1579	1579	0.06	0.01		1585
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.91	0.76	6.67	8.03	0.02	0.25		0.25	0.23		0.23		1579	1579	0.06	0.01		1585
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.18	0.15	1.3	1.57	< 0.005	0.05		0.05	0.04		0.04		309	309	0.01	< 0.005		310
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.03	0.03	0.24	0.29	< 0.005	0.01		0.01	0.01		0.01		51.2	51.2	< 0.005	< 0.005		51.3
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.02	0.02	0.02	0.39	0	0	0.08	0.08	0	0.02	0.02		81.3	81.3	< 0.005	< 0.005	0.28	82.5
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01		62.4	62.4	< 0.005	0.01	0.17	65.2
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.02	0.02	0.03	0.33	0	0	0.08	0.08	0	0.02	0.02		77.1	77.1	< 0.005	< 0.005	0.01	78
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01		62.4	62.4	< 0.005	0.01	< 0.005	65.1
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	0.01	0.07	0	0	0.02	0.02	0	< 0.005	< 0.005		15.3	15.3	< 0.005	< 0.005	0.02	15.5
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		12.2	12.2	< 0.005	< 0.005	0.01	12.8
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.53	2.53	< 0.005	< 0.005	< 0.005	2.57
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		2.02	2.02	< 0.005	< 0.005	< 0.005	2.11
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.4. Building Construction (2026) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.37	0.34	2.77	9.54	0.02	0.08		0.08	0.08		0.08		1579	1579	0.06	0.01		1585
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.37	0.34	2.77	9.54	0.02	0.08		0.08	0.08		0.08		1579	1579	0.06	0.01		1585
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.07	0.07	0.54	1.87	< 0.005	0.02		0.02	0.02		0.02		309	309	0.01	< 0.005		310
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.01	0.01	0.1	0.34	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		51.2	51.2	< 0.005	< 0.005		51.3
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.02	0.02	0.02	0.39	0	0	0.08	0.08	0	0.02	0.02		81.3	81.3	< 0.005	< 0.005	0.28	82.5
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01		62.4	62.4	< 0.005	0.01	0.17	65.2
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.02	0.02	0.03	0.33	0	0	0.08	0.08	0	0.02	0.02		77.1	77.1	< 0.005	< 0.005	0.01	78
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01		62.4	62.4	< 0.005	0.01	< 0.005	65.1
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	0.01	0.07	0	0	0.02	0.02	0	< 0.005	< 0.005		15.3	15.3	< 0.005	< 0.005	0.02	15.5
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		12.2	12.2	< 0.005	< 0.005	0.01	12.8
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.53	2.53	< 0.005	< 0.005	< 0.005	2.57
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		2.02	2.02	< 0.005	< 0.005	< 0.005	2.11
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.5. Building Construction (2027) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.88	0.74	6.45	8.02	0.02	0.23		0.23	0.21		0.21		1580	1580	0.06	0.01		1585
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.88	0.74	6.45	8.02	0.02	0.23		0.23	0.21		0.21		1580	1580	0.06	0.01		1585
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.38	0.32	2.8	3.48	0.01	0.1		0.1	0.09		0.09		686	686	0.03	0.01		689
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.07	0.06	0.51	0.64	< 0.005	0.02		0.02	0.02		0.02		114	114	< 0.005	< 0.005		114
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.02	0.02	0.02	0.36	0	0	0.08	0.08	0	0.02	0.02		79.7	79.7	< 0.005	< 0.005	0.25	80.9
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01		61.1	61.1	< 0.005	0.01	0.16	63.9
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.02	0.02	0.03	0.31	0	0	0.08	0.08	0	0.02	0.02		75.6	75.6	< 0.005	< 0.005	0.01	76.5
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01		61.2	61.2	< 0.005	0.01	< 0.005	63.8
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	0.01	0.14	0	0	0.03	0.03	0	0.01	0.01		33.3	33.3	< 0.005	< 0.005	0.05	33.8
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		26.6	26.6	< 0.005	< 0.005	0.03	27.7
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.03	0	0	0.01	0.01	0	< 0.005	< 0.005		5.52	5.52	< 0.005	< 0.005	0.01	5.59
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		4.4	4.4	< 0.005	< 0.005	< 0.005	4.59
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.6. Building Construction (2027) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.37	0.33	2.75	9.54	0.02	0.08		0.08	0.07		0.07		1580	1580	0.06	0.01		1585
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.37	0.33	2.75	9.54	0.02	0.08		0.08	0.07		0.07		1580	1580	0.06	0.01		1585
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.16	0.14	1.2	4.15	0.01	0.03		0.03	0.03		0.03		686	686	0.03	0.01		689
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.03	0.03	0.22	0.76	< 0.005	0.01		0.01	0.01		0.01		114	114	< 0.005	< 0.005		114
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.02	0.02	0.02	0.36	0	0	0.08	0.08	0	0.02	0.02		79.7	79.7	< 0.005	< 0.005	0.25	80.9
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01		61.1	61.1	< 0.005	0.01	0.16	63.9
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.02	0.02	0.03	0.31	0	0	0.08	0.08	0	0.02	0.02		75.6	75.6	< 0.005	< 0.005	0.01	76.5
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01		61.2	61.2	< 0.005	0.01	< 0.005	63.8
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	0.01	0.14	0	0	0.03	0.03	0	0.01	0.01		33.3	33.3	< 0.005	< 0.005	0.05	33.8
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		26.6	26.6	< 0.005	< 0.005	0.03	27.7
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.03	0	0	0.01	0.01	0	< 0.005	< 0.005		5.52	5.52	< 0.005	< 0.005	0.01	5.59
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		4.4	4.4	< 0.005	< 0.005	< 0.005	4.59
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.7. Paving (2027) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.77	0.65	5.74	8.2	0.01	0.23		0.23	0.21		0.21		1244	1244	0.05	0.01		1248
Paving		0.06																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road Equipment	0.04	0.03	0.28	0.4	< 0.005	0.01		0.01	0.01		0.01		61.3	61.3	< 0.005	< 0.005		61.6
Paving		< 0.005																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.01	0.01	0.05	0.07	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		10.2	10.2	< 0.005	< 0.005		10.2
Paving		< 0.005																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.06	0.05	0.05	0.9	0	0	0.2	0.2	0	0.05	0.05		199	199	0.01	0.01	0.62	202

Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.01	0.01	0	< 0.005	< 0.005		9.46	9.46	< 0.005	< 0.005	0.01	9.58
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.57	1.57	< 0.005	< 0.005	< 0.005	1.59
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.8. Paving (2027) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.2	0.18	2.19	8.64	0.01	0.04		0.04	0.04		0.04		1244	1244	0.05	0.01		1248
Paving		0.06																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road Equipment	0.01	0.01	0.11	0.43	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		61.3	61.3	< 0.005	< 0.005		61.6
Paving		< 0.005																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	0.02	0.08	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		10.2	10.2	< 0.005	< 0.005		10.2
Paving		< 0.005																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.06	0.05	0.05	0.9	0	0	0.2	0.2	0	0.05	0.05		199	199	0.01	0.01	0.62	202
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.01	0.01	0	< 0.005	< 0.005		9.46	9.46	< 0.005	< 0.005	0.01	9.58
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.57	1.57	< 0.005	< 0.005	< 0.005	1.59
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.9. Trenching (2026) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.39	0.32	2.87	3.76	0.01	0.08		0.08	0.08		0.08		553	553	0.02	< 0.005		555
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.39	0.32	2.87	3.76	0.01	0.08		0.08	0.08		0.08		553	553	0.02	< 0.005		555
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.08	0.06	0.56	0.74	< 0.005	0.02		0.02	0.02		0.02		108	108	< 0.005	< 0.005		109
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.01	0.01	0.1	0.13	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		17.9	17.9	< 0.005	< 0.005		18
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.04	0.04	0.04	0.65	0	0	0.13	0.13	0	0.03	0.03		135	135	0.01	< 0.005	0.46	137
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01		62.4	62.4	< 0.005	0.01	0.17	65.2
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.04	0.04	0.04	0.55	0	0	0.13	0.13	0	0.03	0.03		128	128	0.01	< 0.005	0.01	130
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01		62.4	62.4	< 0.005	0.01	< 0.005	65.1
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	0.01	0.11	0	0	0.03	0.03	0	0.01	0.01		25.5	25.5	< 0.005	< 0.005	0.04	25.9
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		12.2	12.2	< 0.005	< 0.005	0.01	12.8
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		4.22	4.22	< 0.005	< 0.005	0.01	4.28
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		2.02	2.02	< 0.005	< 0.005	< 0.005	2.11
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.10. Trenching (2026) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.12	0.11	1.83	3.76	0.01	0.02		0.02	0.02		0.02		553	553	0.02	< 0.005		555
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.12	0.11	1.83	3.76	0.01	0.02		0.02	0.02		0.02		553	553	0.02	< 0.005		555
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.02	0.02	0.36	0.74	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		108	108	< 0.005	< 0.005		109
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	0.07	0.13	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		17.9	17.9	< 0.005	< 0.005		18
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.04	0.04	0.04	0.65	0	0	0.13	0.13	0	0.03	0.03		135	135	0.01	< 0.005	0.46	137
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01		62.4	62.4	< 0.005	0.01	0.17	65.2
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.04	0.04	0.04	0.55	0	0	0.13	0.13	0	0.03	0.03		128	128	0.01	< 0.005	0.01	130
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01		62.4	62.4	< 0.005	0.01	< 0.005	65.1
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	0.01	0.11	0	0	0.03	0.03	0	0.01	0.01		25.5	25.5	< 0.005	< 0.005	0.04	25.9
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		12.2	12.2	< 0.005	< 0.005	0.01	12.8
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		4.22	4.22	< 0.005	< 0.005	0.01	4.28
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		2.02	2.02	< 0.005	< 0.005	< 0.005	2.11
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.11. Trenching (2027) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.37	0.31	2.8	3.75	0.01	0.07		0.07	0.07		0.07		553	553	0.02	< 0.005		555
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.37	0.31	2.8	3.75	0.01	0.07		0.07	0.07		0.07		553	553	0.02	< 0.005		555
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.16	0.14	1.21	1.63	< 0.005	0.03		0.03	0.03		0.03		240	240	0.01	< 0.005		241
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.03	0.02	0.22	0.3	< 0.005	0.01		0.01	0.01		0.01		39.8	39.8	< 0.005	< 0.005		39.9
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.04	0.04	0.03	0.6	0	0	0.13	0.13	0	0.03	0.03		133	133	0.01	< 0.005	0.41	135
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01		61.1	61.1	< 0.005	0.01	0.16	63.9
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.04	0.03	0.04	0.51	0	0	0.13	0.13	0	0.03	0.03		126	126	< 0.005	< 0.005	0.01	127
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01		61.2	61.2	< 0.005	0.01	< 0.005	63.8
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.02	0.02	0.02	0.23	0	0	0.06	0.06	0	0.01	0.01		55.5	55.5	< 0.005	< 0.005	0.08	56.3
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		26.6	26.6	< 0.005	< 0.005	0.03	27.7
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.01	0.01	0	< 0.005	< 0.005		9.2	9.2	< 0.005	< 0.005	0.01	9.31
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		4.4	4.4	< 0.005	< 0.005	< 0.005	4.59
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.12. Trenching (2027) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.12	0.11	1.83	3.76	0.01	0.02		0.02	0.02		0.02		553	553	0.02	< 0.005		555
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		

Off-Road Equipment	0.12	0.11	1.83	3.76	0.01	0.02		0.02	0.02		0.02	553	553	0.02	< 0.005		555
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																	
Off-Road Equipment	0.05	0.05	0.8	1.63	< 0.005	0.01		0.01	0.01		0.01	240	240	0.01	< 0.005		241
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Off-Road Equipment	0.01	0.01	0.15	0.3	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005	39.8	39.8	< 0.005	< 0.005		39.9
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																	
Daily, Summer (Max)																	
Worker	0.04	0.04	0.03	0.6	0	0	0.13	0.13	0	0.03	0.03	133	133	0.01	< 0.005	0.41	135
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	61.1	61.1	< 0.005	0.01	0.16	63.9
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																	
Worker	0.04	0.03	0.04	0.51	0	0	0.13	0.13	0	0.03	0.03	126	126	< 0.005	< 0.005	0.01	127
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	61.2	61.2	< 0.005	0.01	< 0.005	63.8
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																	
Worker	0.02	0.02	0.02	0.23	0	0	0.06	0.06	0	0.01	0.01	55.5	55.5	< 0.005	< 0.005	0.08	56.3
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	26.6	26.6	< 0.005	< 0.005	0.03	27.7
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.01	0.01	0	< 0.005	< 0.005	9.2	9.2	< 0.005	< 0.005	0.01	9.31
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.4	4.4	< 0.005	< 0.005	< 0.005	4.59
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	ork Days per Pha	hase Description
Site Preparation	Site Preparation	46280	46287	5	6	
Pipeline Construction	Building Construction	46288	46609	5	230	
Paving	Paving	46589	46614	5	18	
Utility Trenching	Trenching	46288	46609	5	230	

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Graders	Diesel	Average	1	8	148	0.41
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	1	7	84	0.37
Site Preparation	Scrapers	Diesel	Average	1	8	423	0.48
Site Preparation	Rubber Tired Dozers	Diesel	Average	0	7	367	0.4
Pipeline Construction	Cranes	Diesel	Average	1	6	367	0.29
Pipeline Construction	Forklifts	Diesel	Average	0	6	82	0.2
Pipeline Construction	Tractors/Loaders/Backhoes	Diesel	Average	1	6	84	0.37
Pipeline Construction	Concrete/Industrial Saws	Diesel	Average	1	6	33	0.73
Pipeline Construction	Paving Equipment	Diesel	Average	1	6	89	0.36
Pipeline Construction	Rollers	Diesel	Average	2	6	36	0.38
Pipeline Construction	Generator Sets	Diesel	Average	0	8	14	0.74
Pipeline Construction	Welders	Diesel	Average	0	8	46	0.45
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1	8	84	0.37
Paving	Cement and Mortar Mixers	Diesel	Average	1	8	10	0.56
Paving	Pavers	Diesel	Average	1	8	81	0.42
Paving	Rollers	Diesel	Average	2	8	36	0.38
Paving	Paving Equipment	Diesel	Average	1	8	89	0.36
Utility Trenching	Tractors/Loaders/Backhoes	Diesel	Average	1	6	84	0.37
Utility Trenching	Dumpers/Tenders	Diesel	Average	1	6	16	0.38
Utility Trenching	Concrete/Industrial Saws	Diesel	Average	1	6	33	0.73
Utility Trenching	Excavators	Diesel	Average	1	6	36	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Graders	Diesel	Tier 4 Final	1	8	148	0.41
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1	7	84	0.37
Site Preparation	Scrapers	Diesel	Tier 4 Final	1	8	423	0.48
Pipeline Construction	Cranes	Diesel	Tier 4 Final	1	6	367	0.29
Pipeline Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1	6	84	0.37
Pipeline Construction	Concrete/Industrial Saws	Diesel	Tier 4 Final	1	6	33	0.73
Pipeline Construction	Paving Equipment	Diesel	Tier 4 Final	1	6	89	0.36
Pipeline Construction	Rollers	Diesel	Average	2	6	36	0.38
Pipeline Construction	Generator Sets	Diesel	Average	0	8	14	0.74
Paving	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1	8	84	0.37
Paving	Cement and Mortar Mixers	Diesel	Average	1	8	10	0.56
Paving	Pavers	Diesel	Tier 4 Final	1	8	81	0.42
Paving	Rollers	Diesel	Tier 4 Final	2	8	36	0.38
Paving	Paving Equipment	Diesel	Tier 4 Final	1	8	89	0.36
Utility Trenching	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1	6	84	0.37
Utility Trenching	Dumpers/Tenders	Diesel	Average	1	6	16	0.38
Utility Trenching	Concrete/Industrial Saws	Diesel	Tier 4 Final	1	6	33	0.73
Utility Trenching	Excavators	Diesel	Tier 4 Final	1	6	36	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	ne-Way Trips per D	Miles per Trip	Vehicle Mix
Site Preparation				
Site Preparation	Worker	7.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	10	10.2	HHDT,MHDT
Site Preparation	Hauling	0	20	HHDT
Site Preparation	Onsite truck	0		HHDT
Pipeline Construction				
Pipeline Construction	Worker	6	18.5	LDA,LDT1,LDT2
Pipeline Construction	Vendor	2	10.2	HHDT,MHDT
Pipeline Construction	Hauling	0	20	HHDT
Pipeline Construction	Onsite truck	0		HHDT
Paving				
Paving	Worker	15	18.5	LDA,LDT1,LDT2
Paving	Vendor	0	10.2	HHDT,MHDT
Paving	Hauling	0	20	HHDT
Paving	Onsite truck	0		HHDT
Utility Trenching				
Utility Trenching	Worker	10	18.5	LDA,LDT1,LDT2
Utility Trenching	Vendor	2	10.2	HHDT,MHDT
Utility Trenching	Hauling	0	20	HHDT
Utility Trenching	Onsite truck	0		HHDT

5.3.2. Mitigated

Phase Name	Trip Type	ne-Way Trips per D	Miles per Trip	Vehicle Mix
Site Preparation				
Site Preparation	Worker	7.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	10	10.2	HHDT,MHDT
Site Preparation	Hauling	0	20	HHDT
Site Preparation	Onsite truck	0		HHDT
Pipeline Construction				
Pipeline Construction	Worker	6	18.5	LDA,LDT1,LDT2
Pipeline Construction	Vendor	2	10.2	HHDT,MHDT
Pipeline Construction	Hauling	0	20	HHDT
Pipeline Construction	Onsite truck	0		HHDT
Paving				
Paving	Worker	15	18.5	LDA,LDT1,LDT2
Paving	Vendor	0	10.2	HHDT,MHDT
Paving	Hauling	0	20	HHDT
Paving	Onsite truck	0		HHDT
Utility Trenching				
Utility Trenching	Worker	10	18.5	LDA,LDT1,LDT2
Utility Trenching	Vendor	2	10.2	HHDT,MHDT
Utility Trenching	Hauling	0	20	HHDT
Utility Trenching	Onsite truck	0		HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55	55
Limit vehicle speeds on unpaved roads to 25 n	44	44
Sweep paved roads once per month	9	9

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coate	al Exterior Area Coa	ntial Interior Area C	tial Exterior Area	ing Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards	ial Exported (Cubic	cres Graded (acres	rial Demolished (s	cres Paved (acres)
Site Preparation	0	0	9	0	
Paving	0	0	0	0	1.93

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61	61

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt

Other Asphalt Surfaces	0.42	100
Other Non-Asphalt Surfaces	1.5	0

5.8. Construction Electricity Consumption and Emissions Factors

Year	kWh per Year	CO2	CH4	N2O
2026	0	450	0.03	< 0.005
2027	0	450	0.03	< 0.005

8. User Changes to Default Data

Screen	Justification
Characteristics: Project Details	
Characteristics: Utility Information	Based on 2021 SCE Sustainability Report
Construction: Construction Phases	Based on information provided by Applicant
Construction: Off-Road Equipment	based on equipment mix for a similar project in the region
Construction: Trips and VMT	See assumptions file for water truck trip calculations. 6 worker trips for pipeline construction based on similar project in the region and 2 one way vendor trips for concrete truck per day.
Construction: Electricity	2021 SCE Sustainability Report

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Irwindale Gateway Project (Sewer Main and Storm Drain - Public) (Tier 4 Final)
Construction Start Date	1/30/2025
Lead Agency	
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.8
Precipitation (days)	22.4
Location	13620 Live Oak Ln, Irwindale, CA 91706, USA
County	Los Angeles-South Coast
City	Irwindale
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4900
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.12

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Other Asphalt Surfaces	3.37	1000sqft	0.08	0	0	0		
Other Non-Asphalt Surfaces	12	1000sqft	0.28	0	0	0		

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	1.44	1.21	10.2	13	0.02	0.37	0.24	0.61	0.34	0.06	0.4		2481	2481	0.1	0.04	1.16	2498
Mit.	0.59	0.53	4.84	14.5	0.02	0.11	0.24	0.35	0.1	0.06	0.16		2481	2481	0.1	0.04	1.16	2498
% Reduced	59	56.1	52.5	−11.0		70.4		42.6	69.8		59.6							
Daily, Winter (Max)																		
Unmit.	2.34	1.98	16.4	22	0.03	0.64	0.8	1.28	0.59	0.11	0.7		3911	3911	0.16	0.07	0.05	3933
Mit.	0.86	0.79	7.11	23.8	0.03	0.15	0.8	0.86	0.14	0.11	0.24		3911	3911	0.16	0.07	0.05	3933
% Reduced	63.4	60.2	56.6	−8.49		77		32.9	76.4		64.9							
Average Daily (Max)																		
Unmit.	0.98	0.82	6.91	8.79	0.01	0.26	0.17	0.43	0.23	0.04	0.27		1681	1681	0.07	0.03	0.34	1692
Mit.	0.39	0.35	3.2	9.78	0.01	0.07	0.17	0.25	0.07	0.04	0.11		1681	1681	0.07	0.03	0.34	1692
% Reduced	60	57.1	53.7	−11.3		71.8		42.7	71.1		60.7							
Annual (Max)																		
Unmit.	0.18	0.15	1.26	1.6	< 0.005	0.05	0.03	0.08	0.04	0.01	0.05		278	278	0.01	< 0.005	0.06	280
Mit.	0.07	0.06	0.58	1.79	< 0.005	0.01	0.03	0.04	0.01	0.01	0.02		278	278	0.01	< 0.005	0.06	280
% Reduced	60	57.1	53.7	−11.3		71.8		42.7	71.1		60.7							

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2025	1.44	1.21	10.2	13	0.02	0.37	0.24	0.61	0.34	0.06	0.4		2481	2481	0.1	0.04	1.16	2498
Daily - Winter (Max)																		
2025	2.34	1.98	16.4	22	0.03	0.64	0.8	1.28	0.59	0.11	0.7		3911	3911	0.16	0.07	0.05	3933
Average Daily																		
2025	0.98	0.82	6.91	8.79	0.01	0.26	0.17	0.43	0.23	0.04	0.27		1681	1681	0.07	0.03	0.34	1692
Annual																		
2025	0.18	0.15	1.26	1.6	< 0.005	0.05	0.03	0.08	0.04	0.01	0.05		278	278	0.01	< 0.005	0.06	280

2.3. Construction Emissions by Year, Mitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2025	0.59	0.53	4.84	14.5	0.02	0.11	0.24	0.35	0.1	0.06	0.16		2481	2481	0.1	0.04	1.16	2498
Daily - Winter (Max)																		
2025	0.86	0.79	7.11	23.8	0.03	0.15	0.8	0.86	0.14	0.11	0.24		3911	3911	0.16	0.07	0.05	3933
Average Daily																		
2025	0.39	0.35	3.2	9.78	0.01	0.07	0.17	0.25	0.07	0.04	0.11		1681	1681	0.07	0.03	0.34	1692
Annual																		
2025	0.07	0.06	0.58	1.79	< 0.005	0.01	0.03	0.04	0.01	0.01	0.02		278	278	0.01	< 0.005	0.06	280

3. Construction Emissions Details

3.1. Site Preparation (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Equipment	1.42	1.19	10.9	11	0.03	0.47		0.47	0.43		0.43		2717	2717	0.11	0.02		2726
Dust From Material Movement							0.62	0.62		0.07	0.07							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.02	0.02	0.18	0.18	< 0.005	0.01		0.01	0.01		0.01		44.7	44.7	< 0.005	< 0.005		44.8
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		7.39	7.39	< 0.005	< 0.005		7.42
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.04	0.03	0.04	0.44	0	0	0.1	0.1	0	0.02	0.02		98.3	98.3	< 0.005	< 0.005	0.01	99.5
Vendor	0.02	0.01	0.38	0.18	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03		317	317	0.01	0.04	0.02	331
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.64	1.64	< 0.005	< 0.005	< 0.005	1.66
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		5.22	5.22	< 0.005	< 0.005	0.01	5.45
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.27	0.27	< 0.005	< 0.005	< 0.005	0.28
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		0.86	0.86	< 0.005	< 0.005	< 0.005	0.9
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.2. Site Preparation (2025) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Equipment	0.26	0.26	1.33	15	0.03	0.05		0.05	0.05		0.05		2717	2717	0.11	0.02		2726
Dust From Material Movement							0.62	0.62		0.07	0.07							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	< 0.005	< 0.005	0.02	0.25	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		44.7	44.7	< 0.005	< 0.005		44.8
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.05	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		7.39	7.39	< 0.005	< 0.005		7.42
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.04	0.03	0.04	0.44	0	0	0.1	0.1	0	0.02	0.02		98.3	98.3	< 0.005	< 0.005	0.01	99.5
Vendor	0.02	0.01	0.38	0.18	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03		317	317	0.01	0.04	0.02	331
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.64	1.64	< 0.005	< 0.005	< 0.005	1.66
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		5.22	5.22	< 0.005	< 0.005	0.01	5.45
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.27	0.27	< 0.005	< 0.005	< 0.005	0.28
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		0.86	0.86	< 0.005	< 0.005	< 0.005	0.9
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.3. Building Construction (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.95	0.79	7	8.1	0.02	0.27		0.27	0.25		0.25		1580	1580	0.06	0.01		1585
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.95	0.79	7	8.1	0.02	0.27		0.27	0.25		0.25		1580	1580	0.06	0.01		1585
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		

Off-Road Equipment	0.6	0.5	4.41	5.1	0.01	0.17		0.17	0.16		0.16		996	996	0.04	0.01		999
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.11	0.09	0.8	0.93	< 0.005	0.03		0.03	0.03		0.03		165	165	0.01	< 0.005		165
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.03	0.03	0.03	0.42	0	0	0.08	0.08	0	0.02	0.02		83	83	< 0.005	< 0.005	0.3	84.2
Vendor	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01		63.5	63.5	< 0.005	0.01	0.17	66.3
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.03	0.03	0.03	0.35	0	0	0.08	0.08	0	0.02	0.02		78.6	78.6	< 0.005	< 0.005	0.01	79.6
Vendor	< 0.005	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01		63.5	63.5	< 0.005	0.01	< 0.005	66.2
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.02	0.02	0.02	0.23	0	0	0.05	0.05	0	0.01	0.01		50.3	50.3	< 0.005	< 0.005	0.08	51
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		40	40	< 0.005	0.01	0.05	41.8
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.01	0.01	0	< 0.005	< 0.005		8.33	8.33	< 0.005	< 0.005	0.01	8.44
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		6.62	6.62	< 0.005	< 0.005	0.01	6.91
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.4. Building Construction (2025) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.38	0.35	2.79	9.54	0.02	0.09		0.09	0.08		0.08		1580	1580	0.06	0.01		1585
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.38	0.35	2.79	9.54	0.02	0.09		0.09	0.08		0.08		1580	1580	0.06	0.01		1585
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.24	0.22	1.76	6.01	0.01	0.05		0.05	0.05		0.05		996	996	0.04	0.01		999
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.04	0.04	0.32	1.1	< 0.005	0.01		0.01	0.01		0.01		165	165	0.01	< 0.005		165
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.03	0.03	0.03	0.42	0	0	0.08	0.08	0	0.02	0.02		83	83	< 0.005	< 0.005	0.3	84.2
Vendor	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01		63.5	63.5	< 0.005	0.01	0.17	66.3
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.03	0.03	0.03	0.35	0	0	0.08	0.08	0	0.02	0.02		78.6	78.6	< 0.005	< 0.005	0.01	79.6
Vendor	< 0.005	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01		63.5	63.5	< 0.005	0.01	< 0.005	66.2
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.02	0.02	0.02	0.23	0	0	0.05	0.05	0	0.01	0.01		50.3	50.3	< 0.005	< 0.005	0.08	51
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		40	40	< 0.005	0.01	0.05	41.8
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.01	0.01	0	< 0.005	< 0.005		8.33	8.33	< 0.005	< 0.005	0.01	8.44
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		6.62	6.62	< 0.005	< 0.005	0.01	6.91
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.5. Paving (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Equipment	0.83	0.7	6.13	8.21	0.01	0.27		0.27	0.25		0.25		1244	1244	0.05	0.01		1248
Paving		0.01																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.04	0.03	0.3	0.41	< 0.005	0.01		0.01	0.01		0.01		61.4	61.4	< 0.005	< 0.005		61.6
Paving		< 0.005																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.01	0.01	0.06	0.07	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		10.2	10.2	< 0.005	< 0.005		10.2
Paving		< 0.005																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.07	0.06	0.07	0.88	0	0	0.2	0.2	0	0.05	0.05		197	197	0.01	0.01	0.02	199
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.01	0.01	0	< 0.005	< 0.005		9.84	9.84	< 0.005	< 0.005	0.02	9.97
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.63	1.63	< 0.005	< 0.005	< 0.005	1.65
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.6. Paving (2025) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Equipment	0.2	0.18	2.19	8.64	0.01	0.04		0.04	0.04		0.04		1244	1244	0.05	0.01		1248
Paving		0.01																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.01	0.01	0.11	0.43	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		61.4	61.4	< 0.005	< 0.005		61.6
Paving		< 0.005																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	0.02	0.08	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		10.2	10.2	< 0.005	< 0.005		10.2
Paving		< 0.005																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.07	0.06	0.07	0.88	0	0	0.2	0.2	0	0.05	0.05		197	197	0.01	0.01	0.02	199
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.01	0.01	0	< 0.005	< 0.005		9.84	9.84	< 0.005	< 0.005	0.02	9.97
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.63	1.63	< 0.005	< 0.005	< 0.005	1.65
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.7. Trenching (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.41	0.34	2.96	3.77	0.01	0.1		0.1	0.09		0.09		553	553	0.02	< 0.005		555
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.41	0.34	2.96	3.77	0.01	0.1		0.1	0.09		0.09		553	553	0.02	< 0.005		555
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.26	0.21	1.86	2.37	< 0.005	0.06		0.06	0.06		0.06		349	349	0.01	< 0.005		350
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.05	0.04	0.34	0.43	< 0.005	0.01		0.01	0.01		0.01		57.7	57.7	< 0.005	< 0.005		57.9
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.05	0.04	0.04	0.7	0	0	0.13	0.13	0	0.03	0.03		138	138	0.01	< 0.005	0.51	140
Vendor	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01		63.5	63.5	< 0.005	0.01	0.17	66.3
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.05	0.04	0.05	0.59	0	0	0.13	0.13	0	0.03	0.03		131	131	0.01	< 0.005	0.01	133
Vendor	< 0.005	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01		63.5	63.5	< 0.005	0.01	< 0.005	66.2
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.03	0.03	0.03	0.39	0	0	0.08	0.08	0	0.02	0.02		83.8	83.8	< 0.005	< 0.005	0.14	84.9
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		40	40	< 0.005	0.01	0.05	41.8
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.01	< 0.005	0.01	0.07	0	0	0.01	0.01	0	< 0.005	< 0.005		13.9	13.9	< 0.005	< 0.005	0.02	14.1
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		6.62	6.62	< 0.005	< 0.005	0.01	6.91

Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
3.8. Trenching (2025) - Mitigated																		
Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.12	0.11	1.83	3.76	0.01	0.02		0.02	0.02		0.02		553	553	0.02	< 0.005		555
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.12	0.11	1.83	3.76	0.01	0.02		0.02	0.02		0.02		553	553	0.02	< 0.005		555
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.08	0.07	1.15	2.37	< 0.005	0.01		0.01	0.01		0.01		349	349	0.01	< 0.005		350
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.01	0.01	0.21	0.43	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		57.7	57.7	< 0.005	< 0.005		57.9
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.05	0.04	0.04	0.7	0	0	0.13	0.13	0	0.03	0.03		138	138	0.01	< 0.005	0.51	140
Vendor	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01		63.5	63.5	< 0.005	0.01	0.17	66.3
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.05	0.04	0.05	0.59	0	0	0.13	0.13	0	0.03	0.03		131	131	0.01	< 0.005	0.01	133
Vendor	< 0.005	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01		63.5	63.5	< 0.005	0.01	< 0.005	66.2
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.03	0.03	0.03	0.39	0	0	0.08	0.08	0	0.02	0.02		83.8	83.8	< 0.005	< 0.005	0.14	84.9
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		40	40	< 0.005	0.01	0.05	41.8
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.01	< 0.005	0.01	0.07	0	0	0.01	0.01	0	< 0.005	< 0.005		13.9	13.9	< 0.005	< 0.005	0.02	14.1
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		6.62	6.62	< 0.005	< 0.005	0.01	6.91
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	ork Days per Pha	hase Description
Site Preparation	Site Preparation	45687	45694	5	6	
Pipeline Construction	Building Construction	45695	46016	5	230	
Paving	Paving	45999	46022	5	18	
Utility Trenching	Trenching	45695	46016	5	230	

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Graders	Diesel	Average	1	8	148	0.41
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	1	7	84	0.37
Site Preparation	Scrapers	Diesel	Average	1	8	423	0.48
Pipeline Construction	Cranes	Diesel	Average	1	6	367	0.29
Pipeline Construction	Forklifts	Diesel	Average	0	6	82	0.2
Pipeline Construction	Tractors/Loaders/Backhoes	Diesel	Average	1	6	84	0.37
Pipeline Construction	Concrete/Industrial Saws	Diesel	Average	1	6	33	0.73
Pipeline Construction	Paving Equipment	Diesel	Average	1	6	89	0.36
Pipeline Construction	Rollers	Diesel	Average	2	6	36	0.38
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1	8	84	0.37
Paving	Cement and Mortar Mixers	Diesel	Average	1	8	10	0.56
Paving	Pavers	Diesel	Average	1	8	81	0.42
Paving	Rollers	Diesel	Average	2	8	36	0.38
Paving	Paving Equipment	Diesel	Average	1	8	89	0.36
Utility Trenching	Tractors/Loaders/Backhoes	Diesel	Average	1	6	84	0.37
Utility Trenching	Dumpers/Tenders	Diesel	Average	1	6	16	0.38
Utility Trenching	Concrete/Industrial Saws	Diesel	Average	1	6	33	0.73
Utility Trenching	Excavators	Diesel	Average	1	6	36	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Graders	Diesel	Tier 4 Final	1	8	148	0.41
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1	7	84	0.37
Site Preparation	Scrapers	Diesel	Tier 4 Final	1	8	423	0.48
Pipeline Construction	Cranes	Diesel	Tier 4 Final	1	6	367	0.29
Pipeline Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1	6	84	0.37
Pipeline Construction	Concrete/Industrial Saws	Diesel	Tier 4 Final	1	6	33	0.73
Pipeline Construction	Paving Equipment	Diesel	Tier 4 Final	1	6	89	0.36
Pipeline Construction	Rollers	Diesel	Average	2	6	36	0.38
Paving	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1	8	84	0.37
Paving	Cement and Mortar Mixers	Diesel	Average	1	8	10	0.56
Paving	Pavers	Diesel	Tier 4 Final	1	8	81	0.42
Paving	Rollers	Diesel	Tier 4 Final	2	8	36	0.38
Paving	Paving Equipment	Diesel	Tier 4 Final	1	8	89	0.36
Utility Trenching	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1	6	84	0.37
Utility Trenching	Dumpers/Tenders	Diesel	Average	1	6	16	0.38
Utility Trenching	Concrete/Industrial Saws	Diesel	Tier 4 Final	1	6	33	0.73
Utility Trenching	Excavators	Diesel	Tier 4 Final	1	6	36	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	ne-Way Trips per D	Miles per Trip	Vehicle Mix
Site Preparation				
Site Preparation	Worker	7.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	10	10.2	HHDT,MHDT
Site Preparation	Hauling	0	20	HHDT
Site Preparation	Onsite truck	0		HHDT
Pipeline Construction				
Pipeline Construction	Worker	6	18.5	LDA,LDT1,LDT2
Pipeline Construction	Vendor	2	10.2	HHDT,MHDT
Pipeline Construction	Hauling	0	20	HHDT
Pipeline Construction	Onsite truck	0		HHDT
Paving				
Paving	Worker	15	18.5	LDA,LDT1,LDT2
Paving	Vendor	0	10.2	HHDT,MHDT
Paving	Hauling	0	20	HHDT
Paving	Onsite truck	0		HHDT
Utility Trenching				
Utility Trenching	Worker	10	18.5	LDA,LDT1,LDT2
Utility Trenching	Vendor	2	10.2	HHDT,MHDT
Utility Trenching	Hauling	0	20	HHDT
Utility Trenching	Onsite truck	0		HHDT

5.3.2. Mitigated

Phase Name	Trip Type	ne-Way Trips per D	Miles per Trip	Vehicle Mix
Site Preparation				
Site Preparation	Worker	7.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	10	10.2	HHDT,MHDT
Site Preparation	Hauling	0	20	HHDT
Site Preparation	Onsite truck	0		HHDT
Pipeline Construction				
Pipeline Construction	Worker	6	18.5	LDA,LDT1,LDT2
Pipeline Construction	Vendor	2	10.2	HHDT,MHDT
Pipeline Construction	Hauling	0	20	HHDT
Pipeline Construction	Onsite truck	0		HHDT
Paving				
Paving	Worker	15	18.5	LDA,LDT1,LDT2
Paving	Vendor	0	10.2	HHDT,MHDT
Paving	Hauling	0	20	HHDT
Paving	Onsite truck	0		HHDT
Utility Trenching				
Utility Trenching	Worker	10	18.5	LDA,LDT1,LDT2
Utility Trenching	Vendor	2	10.2	HHDT,MHDT
Utility Trenching	Hauling	0	20	HHDT
Utility Trenching	Onsite truck	0		HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55	55
Limit vehicle speeds on unpaved roads to 25 mph	44	44
Sweep paved roads once per month	9	9

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	0	0	9	0	
Paving	0	0	0	0	0.35

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61	61

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Other Asphalt Surfaces	0.08	100
Other Non-Asphalt Surfaces	0.28	0

5.8. Construction Electricity Consumption and Emissions Factors

Year	kWh per Year	CO2	CH4	N2O
2025	0	450	0.03	< 0.005

8. User Changes to Default Data

Screen	Justification
Characteristics: Project Details	
Characteristics: Utility Information	Based on 2021 SCE Sustainability Report
Construction: Construction Phases	Based on information provided by Applicant
Construction: Off-Road Equipment	based on equipment mix for a similar project in the region
Construction: Trips and VMT	See assumptions file for water truck trip calculations. 6 worker trips for pipeline construction based on similar project in the region and 2 one way vendor trips for concrete truck per day.
Construction: Electricity	2021 SCE Sustainability Report

Operation (Option 1)

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Irwindale Gateway Project (Option 1) Operations
Operational Year	7/19/1905
Lead Agency	
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.8
Precipitation (days)	22.4
Location	13620 Live Oak Ln, Irwindale, CA 91706, USA
County	Los Angeles-South Coast
City	Irwindale
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4900
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Refrigerated Warehouse-No Rail	388	1000sqft	8.76	387500	0	0		
Unrefrigerated Warehouse-No Rail	610	1000sqft	13.8	610296	0	0		
Parking Lot	811	1000sqft	18.6	0	0	0		
Other Non-Asphalt Surfaces	310	1000sqft	7.12	0	310164	0		
Other Non-Asphalt Surfaces	201	1000sqft	4.61	0	0	0		

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	15.9	38.2	10.5	132	0.23	0.6	20.2	20.8	0.61	5.12	5.73	243	40257	40499	16.7	0.84	10387	51554
Daily, Winter (Max)																		
Unmit.	8.17	31.1	10.7	79.9	0.21	0.54	20.2	20.8	0.53	5.12	5.65	243	39113	39355	16.7	0.88	10329	50362
Average Daily (Max)																		
Unmit.	13.4	35.9	11	112	0.22	0.58	19.9	20.5	0.58	5.05	5.63	243	39495	39738	16.7	0.88	10353	50771
Annual (Max)																		
Unmit.	2.45	6.55	2.01	20.5	0.04	0.11	3.64	3.74	0.11	0.92	1.03	40.2	6539	6579	2.76	0.15	1714	8406

2.5. Operations Emissions by Sector, Unmitigated

Sector	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Mobile	7.57	6.74	4.37	83.8	0.19	0.1	20.2	20.3	0.09	5.12	5.21		19109	19109	0.69	0.48	60.1	19329
Area	7.72	31.2	0.37	43.4	< 0.005	0.06		0.06	0.08		0.08		178	178	0.01	< 0.005		179
Energy	0.63	0.32	5.77	4.84	0.03	0.44		0.44	0.44		0.44		20517	20517	1.61	0.13		20597
Water												103	452	555	0.39	0.23		633
Waste												140	0	140	14	0		489
Refrig.																	10327	10327
Total	15.9	38.2	10.5	132	0.23	0.6	20.2	20.8	0.61	5.12	5.73	243	40257	40499	16.7	0.84	10387	51554
Daily, Winter (Max)																		
Mobile	7.53	6.71	4.9	75	0.18	0.1	20.2	20.3	0.09	5.12	5.21		18144	18144	0.71	0.51	1.56	18317
Area		24.1																
Energy	0.63	0.32	5.77	4.84	0.03	0.44		0.44	0.44		0.44		20517	20517	1.61	0.13		20597
Water												103	452	555	0.39	0.23		633
Waste												140	0	140	14	0		489
Refrig.																	10327	10327
Total	8.17	31.1	10.7	79.9	0.21	0.54	20.2	20.8	0.53	5.12	5.65	243	39113	39355	16.7	0.88	10329	50362
Average Daily																		
Mobile	7.48	6.66	4.97	77.5	0.18	0.1	19.9	20	0.09	5.05	5.14		18404	18404	0.71	0.52	26	18603
Area	5.29	28.9	0.25	29.7	< 0.005	0.04		0.04	0.05		0.05		122	122	0.01	< 0.005		123
Energy	0.63	0.32	5.77	4.84	0.03	0.44		0.44	0.44		0.44		20517	20517	1.61	0.13		20597
Water												103	452	555	0.39	0.23		633
Waste												140	0	140	14	0		489
Refrig.																	10327	10327
Total	13.4	35.9	11	112	0.22	0.58	19.9	20.5	0.58	5.05	5.63	243	39495	39738	16.7	0.88	10353	50771
Annual																		
Mobile	1.37	1.21	0.91	14.1	0.03	0.02	3.64	3.66	0.02	0.92	0.94		3047	3047	0.12	0.09	4.3	3080
Area	0.97	5.28	0.05	5.42	< 0.005	0.01		0.01	0.01		0.01		20.2	20.2	< 0.005	< 0.005		20.3
Energy	0.12	0.06	1.05	0.88	0.01	0.08		0.08	0.08		0.08		3397	3397	0.27	0.02		3410
Water												17	74.9	91.9	0.06	0.04		105
Waste												23.1	0	23.1	2.31	0		81
Refrig.																	1710	1710
Total	2.45	6.55	2.01	20.5	0.04	0.11	3.64	3.74	0.11	0.92	1.03	40.2	6539	6579	2.76	0.15	1714	8406

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail	2.94	2.62	1.7	32.5	0.07	0.04	7.86	7.9	0.04	1.99	2.02		7421	7421	0.27	0.19	23.4	7507
Unrefrigerated Warehouse-No Rail	4.63	4.13	2.67	51.2	0.12	0.06	12.4	12.4	0.06	3.13	3.19		11688	11688	0.42	0.29	36.8	11822
Parking Lot	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Total	7.57	6.74	4.37	83.8	0.19	0.1	20.2	20.3	0.09	5.12	5.21		19109	19109	0.69	0.48	60.1	19329
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail	2.93	2.6	1.9	29.1	0.07	0.04	7.86	7.9	0.04	1.99	2.02		7046	7046	0.28	0.2	0.61	7113
Unrefrigerated Warehouse-No Rail	4.61	4.1	3	45.9	0.11	0.06	12.4	12.4	0.06	3.13	3.19		11098	11098	0.44	0.31	0.95	11203
Parking Lot	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Total	7.53	6.71	4.9	75	0.18	0.1	20.2	20.3	0.09	5.12	5.21		18144	18144	0.71	0.51	1.56	18317
Annual																		
Refrigerated Warehouse-No Rail	0.53	0.47	0.35	5.49	0.01	0.01	1.41	1.42	0.01	0.36	0.36		1183	1183	0.05	0.03	1.67	1196
Unrefrigerated Warehouse-No Rail	0.84	0.74	0.56	8.65	0.02	0.01	2.23	2.24	0.01	0.56	0.57		1864	1864	0.07	0.05	2.63	1884
Parking Lot	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Total	1.37	1.21	0.91	14.1	0.03	0.02	3.64	3.66	0.02	0.92	0.94		3047	3047	0.12	0.09	4.3	3080

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail													9238	9238	0.68	0.08		9280
Unrefrigerated Warehouse-No Rail													3521	3521	0.26	0.03		3537
Parking Lot													875	875	0.06	0.01		879
Other Non-Asphalt Surfaces													0	0	0	0		0
Total													13635	13635	1	0.12		13696
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail													9238	9238	0.68	0.08		9280
Unrefrigerated Warehouse-No Rail													3521	3521	0.26	0.03		3537
Parking Lot													875	875	0.06	0.01		879
Other Non-Asphalt Surfaces													0	0	0	0		0
Total													13635	13635	1	0.12		13696
Annual																		
Refrigerated Warehouse-No Rail													1529	1529	0.11	0.01		1536
Unrefrigerated Warehouse-No Rail													583	583	0.04	0.01		586
Parking Lot													145	145	0.01	< 0.005		146
Other Non-Asphalt Surfaces													0	0	0	0		0
Total													2257	2257	0.17	0.02		2268

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail	0.29	0.14	2.61	2.19	0.02	0.2		0.2	0.2		0.2		3111	3111	0.28	0.01		3120
Unrefrigerated Warehouse-No Rail	0.35	0.17	3.16	2.65	0.02	0.24		0.24	0.24		0.24		3770	3770	0.33	0.01		3781
Parking Lot	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Other Non-Asphalt Surfaces	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Total	0.63	0.32	5.77	4.84	0.03	0.44		0.44	0.44		0.44		6882	6882	0.61	0.01		6901
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail	0.29	0.14	2.61	2.19	0.02	0.2		0.2	0.2		0.2		3111	3111	0.28	0.01		3120
Unrefrigerated Warehouse-No Rail	0.35	0.17	3.16	2.65	0.02	0.24		0.24	0.24		0.24		3770	3770	0.33	0.01		3781
Parking Lot	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Other Non-Asphalt Surfaces	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Total	0.63	0.32	5.77	4.84	0.03	0.44		0.44	0.44		0.44		6882	6882	0.61	0.01		6901
Annual																		
Refrigerated Warehouse-No Rail	0.05	0.03	0.48	0.4	< 0.005	0.04		0.04	0.04		0.04		515	515	0.05	< 0.005		517
Unrefrigerated Warehouse-No Rail	0.06	0.03	0.58	0.48	< 0.005	0.04		0.04	0.04		0.04		624	624	0.06	< 0.005		626
Parking Lot	0	0	0	0	0	0		0	0		0		0	0	0	0		0

Other Non-Asphalt Surfaces	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Total	0.12	0.06	1.05	0.88	0.01	0.08		0.08	0.08		0.08		1139	1139	0.1	< 0.005		1142

4.3. Area Emissions by Source

4.3.1. Unmitigated

Source	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Consumer Products		21.5																
Architectural Coatings		2.6																
Landscape Equipment	7.72	7.13	0.37	43.4	< 0.005	0.06		0.06	0.08		0.08		178	178	0.01	< 0.005		179
Total	7.72	31.2	0.37	43.4	< 0.005	0.06		0.06	0.08		0.08		178	178	0.01	< 0.005		179
Daily, Winter (Max)																		
Consumer Products		21.5																
Architectural Coatings		2.6																
Total		24.1																
Annual																		
Consumer Products		3.92																
Architectural Coatings		0.47																
Landscape Equipment	0.97	0.89	0.05	5.42	< 0.005	0.01		0.01	0.01		0.01		20.2	20.2	< 0.005	< 0.005		20.3
Total	0.97	5.28	0.05	5.42	< 0.005	0.01		0.01	0.01		0.01		20.2	20.2	< 0.005	< 0.005		20.3

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail												0	0	0	0	0		0
Unrefrigerated Warehouse-No Rail												103	404	506	0.38	0.23		584
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	48.6	48.6	< 0.005	< 0.005		48.8
Total												103	452	555	0.39	0.23		633
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail												0	0	0	0	0		0
Unrefrigerated Warehouse-No Rail												103	404	506	0.38	0.23		584
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	48.6	48.6	< 0.005	< 0.005		48.8
Total												103	452	555	0.39	0.23		633
Annual																		
Refrigerated Warehouse-No Rail												0	0	0	0	0		0
Unrefrigerated Warehouse-No Rail												17	66.8	83.8	0.06	0.04		96.7
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	8.05	8.05	< 0.005	< 0.005		8.08
Total												17	74.9	91.9	0.06	0.04		105

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail												54.3	0	54.3	5.43	0		190
Unrefrigerated Warehouse-No Rail												85.5	0	85.5	8.55	0		299
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	0	0	0	0		0
Total												140	0	140	14	0		489
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail												54.3	0	54.3	5.43	0		190
Unrefrigerated Warehouse-No Rail												85.5	0	85.5	8.55	0		299
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	0	0	0	0		0
Total												140	0	140	14	0		489
Annual																		
Refrigerated Warehouse-No Rail												8.99	0	8.99	0.9	0		31.5
Unrefrigerated Warehouse-No Rail												14.2	0	14.2	1.42	0		49.5
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	0	0	0	0		0
Total												23.1	0	23.1	2.31	0		81

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail																	10327	10327
Total																	10327	10327
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail																	10327	10327
Total																	10327	10327
Annual																		
Refrigerated Warehouse-No Rail																	1710	1710
Total																	1710	1710

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Equipment Type	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Equipment Type	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Equipment Type	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Daily, Winter (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		

Annual
Avoided
Subtotal
Sequestered
Subtotal
Removed
Subtotal

5. Activity Data
5.9. Operational Mobile Sources
5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Refrigerated Warehouse-No Rail	671	671	671	244802	11201	11201	11201	4088395
Unrefrigerated Warehouse-No Rail	1056	1056	1056	385553	17641	17641	17641	6439048
Parking Lot	0	0	0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0

5.10. Operational Area Sources
5.10.1. Hearths
5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0	1496694	498898	48636

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0
Summer Days	day/yr	250

5.11. Operational Energy Consumption
5.11.1. Unmitigated

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Refrigerated Warehouse-No Rail	7493499	450	0.033	0.004	9708441
Unrefrigerated Warehouse-No Rail	2856407	450	0.033	0.004	11764155
Parking Lot	710086	450	0.033	0.004	0
Other Non-Asphalt Surfaces	0	450	0.033	0.004	0
Other Non-Asphalt Surfaces	0	450	0.033	0.004	0

5.12. Operational Water and Wastewater Consumption
5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Refrigerated Warehouse-No Rail	0	0
Unrefrigerated Warehouse-No Rail	48092765	0
Parking Lot	0	0
Other Non-Asphalt Surfaces	0	7429575
Other Non-Asphalt Surfaces	0	0

5.13. Operational Waste Generation
5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Refrigerated Warehouse-No Rail	101	
Unrefrigerated Warehouse-No Rail	159	
Parking Lot	0	
Other Non-Asphalt Surfaces	0	
Other Non-Asphalt Surfaces	0	

5.14. Operational Refrigeration and Air Conditioning Equipment
5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Refrigerated Warehouse-No Rail	Cold storage	R-404A	3922	7.5	7.5	7.5	25

5.15. Operational Off-Road Equipment
5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources
5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

8. User Changes to Default Data

Screen	Justification
Characteristics: Project Details	
Characteristics: Utility Information	2021 SCE Sustainability Report
Land Use	Based on land use area provided by applicant
Operations: Vehicle Data	represents passenger trips only, assumes operations on weekdays and weekends, assumes 100% nonres H-W trips
Operations: Fleet Mix	Fleet mix for the project is modified to reflect a higher proportion of passenger vehicles that the regional VMT. Assumes a mix of approximately 97% passenger vehicles, 2% medium duty trucks, and 1% heavy duty trucks and buses.
Operations: Water and Waste Water	based on water and wastewater numbers from the Utilities and Service Systems section. Assumes 100% aerobic treatment.
Operations: Solid Waste	based on the CalRecycle Solid Waste Generation Rate of 1.42 lb/KSF/day. See Section 5.17, Utilities and Service Systems for calculations.
Operations: Architectural Coatings	see assumptions file for striping calcs

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Irwindale Gateway Project (Option 1) Operations - Truck Trips
Operational Year	7/19/1905
Lead Agency	
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.8
Precipitation (days)	22.4
Location	13620 Live Oak Ln, Irwindale, CA 91706, USA
County	Los Angeles-South Coast
City	Irwindale
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4900
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Refrigerated Warehouse-No Rail	388	1000sqft	8.76	387500	0	0		
Unrefrigerated Warehouse-No Rail	610	1000sqft	13.8	610296	0	0		
Parking Lot	811	1000sqft	18.6	0	0	0		
Other Non-Asphalt Surfaces	310	1000sqft	7.12	0	310164	0		
Other Non-Asphalt Surfaces	201	1000sqft	4.61	0	0	0		

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	12.9	32.5	86.1	77	0.7	1.61	20.5	22.1	1.58	5.54	7.12	243	93926	94169	19.4	12	10484	108707
Daily, Winter (Max)																		
Unmit.	5.13	25.3	88.8	33.7	0.69	1.55	20.5	22	1.5	5.54	7.04	243	93764	94007	19.4	12	10331	108392
Average Daily (Max)																		
Unmit.	10.5	30.2	90.2	63.4	0.7	1.59	20.3	21.9	1.56	5.48	7.04	243	93877	94119	19.4	12	10395	108568
Annual (Max)																		
Unmit.	1.91	5.52	16.5	11.6	0.13	0.29	3.7	3.99	0.28	1	1.28	40.2	15542	15583	3.21	1.98	1721	17975

2.5. Operations Emissions by Sector, Unmitigated

Sector	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Mobile	4.55	1	80	28.7	0.66	1.11	20.5	21.6	1.07	5.54	6.6		72779	72779	3.44	11.6	157	76482
Area	7.72	31.2	0.37	43.4	< 0.005	0.06		0.06	0.08		0.08		178	178	0.01	< 0.005		179
Energy	0.63	0.32	5.77	4.84	0.03	0.44		0.44	0.44		0.44		20517	20517	1.61	0.13		20597
Water												103	452	555	0.39	0.23		633
Waste												140	0	140	14	0		489
Refrig.																	10327	10327
Total	12.9	32.5	86.1	77	0.7	1.61	20.5	22.1	1.58	5.54	7.12	243	93926	94169	19.4	12	10484	108707
Daily, Winter (Max)																		
Mobile	4.5	0.96	83.1	28.9	0.66	1.11	20.5	21.6	1.07	5.54	6.6		72795	72795	3.44	11.6	4.07	76346
Area		24.1																
Energy	0.63	0.32	5.77	4.84	0.03	0.44		0.44	0.44		0.44		20517	20517	1.61	0.13		20597
Water												103	452	555	0.39	0.23		633
Waste												140	0	140	14	0		489
Refrig.																	10327	10327
Total	5.13	25.3	88.8	33.7	0.69	1.55	20.5	22	1.5	5.54	7.04	243	93764	94007	19.4	12	10331	108392
Average Daily																		
Mobile	4.53	0.98	84.2	28.8	0.66	1.11	20.3	21.4	1.07	5.48	6.55		72786	72786	3.44	11.6	67.8	76400
Area	5.29	28.9	0.25	29.7	< 0.005	0.04		0.04	0.05		0.05		122	122	0.01	< 0.005		123
Energy	0.63	0.32	5.77	4.84	0.03	0.44		0.44	0.44		0.44		20517	20517	1.61	0.13		20597
Water												103	452	555	0.39	0.23		633
Waste												140	0	140	14	0		489
Refrig.																	10327	10327
Total	10.5	30.2	90.2	63.4	0.7	1.59	20.3	21.9	1.56	5.48	7.04	243	93877	94119	19.4	12	10395	108568
Annual																		
Mobile	0.83	0.18	15.4	5.25	0.12	0.2	3.7	3.9	0.19	1	1.19		12050	12050	0.57	1.92	11.2	12649
Area	0.97	5.28	0.05	5.42	< 0.005	0.01		0.01	0.01		0.01		20.2	20.2	< 0.005	< 0.005		20.3
Energy	0.12	0.06	1.05	0.88	0.01	0.08		0.08	0.08		0.08		3397	3397	0.27	0.02		3410
Water												17	74.9	91.9	0.06	0.04		105
Waste												23.1	0	23.1	2.31	0		81
Refrig.																	1710	1710
Total	1.91	5.52	16.5	11.6	0.13	0.29	3.7	3.99	0.28	1	1.28	40.2	15542	15583	3.21	1.98	1721	17975

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail	1.77	0.39	31.1	11.2	0.26	0.43	7.96	8.39	0.41	2.15	2.56		28264	28264	1.34	4.51	60.9	29702
Unrefrigerated Warehouse-No Rail	2.78	0.61	48.9	17.6	0.4	0.68	12.5	13.2	0.65	3.39	4.04		44515	44515	2.1	7.1	96	46780
Parking Lot	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Total	4.55	1	80	28.7	0.66	1.11	20.5	21.6	1.07	5.54	6.6		72779	72779	3.44	11.6	157	76482
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail	1.75	0.37	32.3	11.2	0.26	0.43	7.96	8.39	0.41	2.15	2.56		28270	28270	1.33	4.51	1.58	29650
Unrefrigerated Warehouse-No Rail	2.75	0.58	50.8	17.7	0.4	0.68	12.5	13.2	0.65	3.39	4.04		44525	44525	2.1	7.1	2.49	46697
Parking Lot	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Total	4.5	0.96	83.1	28.9	0.66	1.11	20.5	21.6	1.07	5.54	6.6		72795	72795	3.44	11.6	4.07	76346
Annual																		
Refrigerated Warehouse-No Rail	0.32	0.07	5.97	2.04	0.05	0.08	1.44	1.52	0.08	0.39	0.46		4680	4680	0.22	0.75	4.36	4912
Unrefrigerated Warehouse-No Rail	0.51	0.11	9.4	3.21	0.07	0.12	2.26	2.39	0.12	0.61	0.73		7371	7371	0.35	1.18	6.86	7737
Parking Lot	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Total	0.83	0.18	15.4	5.25	0.12	0.2	3.7	3.9	0.19	1	1.19		12050	12050	0.57	1.92	11.2	12649

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail													9238	9238	0.68	0.08		9280
Unrefrigerated Warehouse-No Rail													3521	3521	0.26	0.03		3537
Parking Lot													875	875	0.06	0.01		879
Other Non-Asphalt Surfaces													0	0	0	0		0
Total													13635	13635	1	0.12		13696
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail													9238	9238	0.68	0.08		9280
Unrefrigerated Warehouse-No Rail													3521	3521	0.26	0.03		3537
Parking Lot													875	875	0.06	0.01		879
Other Non-Asphalt Surfaces													0	0	0	0		0
Total													13635	13635	1	0.12		13696
Annual																		
Refrigerated Warehouse-No Rail													1529	1529	0.11	0.01		1536
Unrefrigerated Warehouse-No Rail													583	583	0.04	0.01		586
Parking Lot													145	145	0.01	< 0.005		146
Other Non-Asphalt Surfaces													0	0	0	0		0
Total													2257	2257	0.17	0.02		2268

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail	0.29	0.14	2.61	2.19	0.02	0.2		0.2	0.2		0.2		3111	3111	0.28	0.01		3120
Unrefrigerated Warehouse-No Rail	0.35	0.17	3.16	2.65	0.02	0.24		0.24	0.24		0.24		3770	3770	0.33	0.01		3781
Parking Lot	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Other Non-Asphalt Surfaces	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Total	0.63	0.32	5.77	4.84	0.03	0.44		0.44	0.44		0.44		6882	6882	0.61	0.01		6901
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail	0.29	0.14	2.61	2.19	0.02	0.2		0.2	0.2		0.2		3111	3111	0.28	0.01		3120
Unrefrigerated Warehouse-No Rail	0.35	0.17	3.16	2.65	0.02	0.24		0.24	0.24		0.24		3770	3770	0.33	0.01		3781
Parking Lot	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Other Non-Asphalt Surfaces	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Total	0.63	0.32	5.77	4.84	0.03	0.44		0.44	0.44		0.44		6882	6882	0.61	0.01		6901
Annual																		
Refrigerated Warehouse-No Rail	0.05	0.03	0.48	0.4	< 0.005	0.04		0.04	0.04		0.04		515	515	0.05	< 0.005		517
Unrefrigerated Warehouse-No Rail	0.06	0.03	0.58	0.48	< 0.005	0.04		0.04	0.04		0.04		624	624	0.06	< 0.005		626
Parking Lot	0	0	0	0	0	0		0	0		0		0	0	0	0		0

Other Non-Asphalt Surfaces	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Total	0.12	0.06	1.05	0.88	0.01	0.08		0.08	0.08		0.08		1139	1139	0.1	< 0.005		1142

4.3. Area Emissions by Source

4.3.1. Unmitigated

Source	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Consumer Products		21.5																
Architectural Coatings		2.6																
Landscape Equipment	7.72	7.13	0.37	43.4	< 0.005	0.06		0.06	0.08		0.08		178	178	0.01	< 0.005		179
Total	7.72	31.2	0.37	43.4	< 0.005	0.06		0.06	0.08		0.08		178	178	0.01	< 0.005		179
Daily, Winter (Max)																		
Consumer Products		21.5																
Architectural Coatings		2.6																
Total		24.1																
Annual																		
Consumer Products		3.92																
Architectural Coatings		0.47																
Landscape Equipment	0.97	0.89	0.05	5.42	< 0.005	0.01		0.01	0.01		0.01		20.2	20.2	< 0.005	< 0.005		20.3
Total	0.97	5.28	0.05	5.42	< 0.005	0.01		0.01	0.01		0.01		20.2	20.2	< 0.005	< 0.005		20.3

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail												0	0	0	0	0		0
Unrefrigerated Warehouse-No Rail												103	404	506	0.38	0.23		584
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	48.6	48.6	< 0.005	< 0.005		48.8
Total												103	452	555	0.39	0.23		633
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail												0	0	0	0	0		0
Unrefrigerated Warehouse-No Rail												103	404	506	0.38	0.23		584
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	48.6	48.6	< 0.005	< 0.005		48.8
Total												103	452	555	0.39	0.23		633
Annual																		
Refrigerated Warehouse-No Rail												0	0	0	0	0		0
Unrefrigerated Warehouse-No Rail												17	66.8	83.8	0.06	0.04		96.7
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	8.05	8.05	< 0.005	< 0.005		8.08
Total												17	74.9	91.9	0.06	0.04		105

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail												54.3	0	54.3	5.43	0		190
Unrefrigerated Warehouse-No Rail												85.5	0	85.5	8.55	0		299
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	0	0	0	0		0
Total												140	0	140	14	0		489
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail												54.3	0	54.3	5.43	0		190
Unrefrigerated Warehouse-No Rail												85.5	0	85.5	8.55	0		299
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	0	0	0	0		0
Total												140	0	140	14	0		489
Annual																		
Refrigerated Warehouse-No Rail												8.99	0	8.99	0.9	0		31.5
Unrefrigerated Warehouse-No Rail												14.2	0	14.2	1.42	0		49.5
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	0	0	0	0		0
Total												23.1	0	23.1	2.31	0		81

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail																	10327	10327
Total																	10327	10327
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail																	10327	10327
Total																	10327	10327
Annual																		
Refrigerated Warehouse-No Rail																	1710	1710
Total																	1710	1710

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Equipment Type	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Equipment Type	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Equipment Type	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Daily, Winter (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		

Annual
Avoided
Subtotal
Sequestered
Subtotal
Removed
Subtotal

5. Activity Data
5.9. Operational Mobile Sources
5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Refrigerated Warehouse-No Rail	215	215	215	78529	8584	8584	8584	3133327
Unrefrigerated Warehouse-No Rail	339	339	339	123681	13520	13520	13520	4934856
Parking Lot	0	0	0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0

5.10. Operational Area Sources
5.10.1. Hearths
5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0	1496694	498898	48636

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0
Summer Days	day/yr	250

5.11. Operational Energy Consumption
5.11.1. Unmitigated

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Refrigerated Warehouse-No Rail	7493499	450	0.033	0.004	9708441
Unrefrigerated Warehouse-No Rail	2856407	450	0.033	0.004	11764155
Parking Lot	710086	450	0.033	0.004	0
Other Non-Asphalt Surfaces	0	450	0.033	0.004	0
Other Non-Asphalt Surfaces	0	450	0.033	0.004	0

5.12. Operational Water and Wastewater Consumption
5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Refrigerated Warehouse-No Rail	0	0
Unrefrigerated Warehouse-No Rail	48092765	0
Parking Lot	0	0
Other Non-Asphalt Surfaces	0	7429575
Other Non-Asphalt Surfaces	0	0

5.13. Operational Waste Generation
5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Refrigerated Warehouse-No Rail	101	
Unrefrigerated Warehouse-No Rail	159	
Parking Lot	0	
Other Non-Asphalt Surfaces	0	
Other Non-Asphalt Surfaces	0	

5.14. Operational Refrigeration and Air Conditioning Equipment
5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Refrigerated Warehouse-No Rail	Cold storage	R-404A	3922	7.5	7.5	7.5	25

5.15. Operational Off-Road Equipment
5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources
5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

8. User Changes to Default Data

Screen	Justification
Characteristics: Project Details	
Characteristics: Utility Information	2021 SCE Sustainability Report
Land Use	Based on land use area provided by applicant
Operations: Vehicle Data	represents truck trips only, assumes operations on weekdays and weekends, assumes 100% nonres H-W trips
Operations: Fleet Mix	Truck trips are anticipated to be 100% HHDT
Operations: Water and Waste Water	based on water and wastewater numbers from the Utilities and Service Systems section. Assumes 100% aerobic treatment.
Operations: Solid Waste	based on the CalRecycle Solid Waste Generation Rate of 1.42 lb/KSF/day. See Section 5.17, Utilities and Service Systems for calculations.
Operations: Architectural Coatings	see assumptions file for striping calcs

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Irwindale Gateway Project (Option 1) Operations - Mitigated
Operational Year	7/19/1905
Lead Agency	
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.8
Precipitation (days)	22.4
Location	13620 Live Oak Ln, Irwindale, CA 91706, USA
County	Los Angeles-South Coast
City	Irwindale
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4900
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Refrigerated Warehouse-No Rail	388	1000sqft	8.76	387500	0	0		
Unrefrigerated Warehouse-No Rail	610	1000sqft	13.8	610296	0	0		
Parking Lot	811	1000sqft	18.6	0	0	0		
Other Non-Asphalt Surfaces	310	1000sqft	7.12	0	310164	0		
Other Non-Asphalt Surfaces	201	1000sqft	4.61	0	0	0		

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	15.9	35.6	10.5	132	0.23	0.6	20.2	20.8	0.61	5.12	5.73	243	40257	40499	16.7	0.84	10387	51554
Daily, Winter (Max)																		
Unmit.	8.17	28.5	10.7	79.9	0.21	0.54	20.2	20.8	0.53	5.12	5.65	243	39113	39355	16.7	0.88	10329	50362
Average Daily (Max)																		
Unmit.	13.4	33.3	11	112	0.22	0.58	19.9	20.5	0.58	5.05	5.63	243	39495	39738	16.7	0.88	10353	50771
Annual (Max)																		
Unmit.	2.45	6.08	2.01	20.5	0.04	0.11	3.64	3.74	0.11	0.92	1.03	40.2	6539	6579	2.76	0.15	1714	8406

2.5. Operations Emissions by Sector, Unmitigated

Sector	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Mobile	7.57	6.74	4.37	83.8	0.19	0.1	20.2	20.3	0.09	5.12	5.21		19109	19109	0.69	0.48	60.1	19329
Area	7.72	28.6	0.37	43.4	< 0.005	0.06		0.06	0.08		0.08		178	178	0.01	< 0.005		179
Energy	0.63	0.32	5.77	4.84	0.03	0.44		0.44	0.44		0.44		20517	20517	1.61	0.13		20597
Water												103	452	555	0.39	0.23		633
Waste												140	0	140	14	0		489
Refrig.																	10327	10327
Total	15.9	35.6	10.5	132	0.23	0.6	20.2	20.8	0.61	5.12	5.73	243	40257	40499	16.7	0.84	10387	51554
Daily, Winter (Max)																		
Mobile	7.53	6.71	4.9	75	0.18	0.1	20.2	20.3	0.09	5.12	5.21		18144	18144	0.71	0.51	1.56	18317
Area		21.5																
Energy	0.63	0.32	5.77	4.84	0.03	0.44		0.44	0.44		0.44		20517	20517	1.61	0.13		20597
Water												103	452	555	0.39	0.23		633
Waste												140	0	140	14	0		489
Refrig.																	10327	10327
Total	8.17	28.5	10.7	79.9	0.21	0.54	20.2	20.8	0.53	5.12	5.65	243	39113	39355	16.7	0.88	10329	50362
Average Daily																		
Mobile	7.48	6.66	4.97	77.5	0.18	0.1	19.9	20	0.09	5.05	5.14		18404	18404	0.71	0.52	26	18603
Area	5.29	26.3	0.25	29.7	< 0.005	0.04		0.04	0.05		0.05		122	122	0.01	< 0.005		123
Energy	0.63	0.32	5.77	4.84	0.03	0.44		0.44	0.44		0.44		20517	20517	1.61	0.13		20597
Water												103	452	555	0.39	0.23		633
Waste												140	0	140	14	0		489
Refrig.																	10327	10327
Total	13.4	33.3	11	112	0.22	0.58	19.9	20.5	0.58	5.05	5.63	243	39495	39738	16.7	0.88	10353	50771
Annual																		
Mobile	1.37	1.21	0.91	14.1	0.03	0.02	3.64	3.66	0.02	0.92	0.94		3047	3047	0.12	0.09	4.3	3080
Area	0.97	4.81	0.05	5.42	< 0.005	0.01		0.01	0.01		0.01		20.2	20.2	< 0.005	< 0.005		20.3
Energy	0.12	0.06	1.05	0.88	0.01	0.08		0.08	0.08		0.08		3397	3397	0.27	0.02		3410
Water												17	74.9	91.9	0.06	0.04		105
Waste												23.1	0	23.1	2.31	0		81
Refrig.																	1710	1710
Total	2.45	6.08	2.01	20.5	0.04	0.11	3.64	3.74	0.11	0.92	1.03	40.2	6539	6579	2.76	0.15	1714	8406

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail	2.94	2.62	1.7	32.5	0.07	0.04	7.86	7.9	0.04	1.99	2.02		7421	7421	0.27	0.19	23.4	7507
Unrefrigerated Warehouse-No Rail	4.63	4.13	2.67	51.2	0.12	0.06	12.4	12.4	0.06	3.13	3.19		11688	11688	0.42	0.29	36.8	11822
Parking Lot	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Total	7.57	6.74	4.37	83.8	0.19	0.1	20.2	20.3	0.09	5.12	5.21		19109	19109	0.69	0.48	60.1	19329
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail	2.93	2.6	1.9	29.1	0.07	0.04	7.86	7.9	0.04	1.99	2.02		7046	7046	0.28	0.2	0.61	7113
Unrefrigerated Warehouse-No Rail	4.61	4.1	3	45.9	0.11	0.06	12.4	12.4	0.06	3.13	3.19		11098	11098	0.44	0.31	0.95	11203
Parking Lot	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Total	7.53	6.71	4.9	75	0.18	0.1	20.2	20.3	0.09	5.12	5.21		18144	18144	0.71	0.51	1.56	18317
Annual																		
Refrigerated Warehouse-No Rail	0.53	0.47	0.35	5.49	0.01	0.01	1.41	1.42	0.01	0.36	0.36		1183	1183	0.05	0.03	1.67	1196
Unrefrigerated Warehouse-No Rail	0.84	0.74	0.56	8.65	0.02	0.01	2.23	2.24	0.01	0.56	0.57		1864	1864	0.07	0.05	2.63	1884
Parking Lot	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Total	1.37	1.21	0.91	14.1	0.03	0.02	3.64	3.66	0.02	0.92	0.94		3047	3047	0.12	0.09	4.3	3080

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail													9238	9238	0.68	0.08		9280
Unrefrigerated Warehouse-No Rail													3521	3521	0.26	0.03		3537
Parking Lot													875	875	0.06	0.01		879
Other Non-Asphalt Surfaces													0	0	0	0		0
Total													13635	13635	1	0.12		13696
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail													9238	9238	0.68	0.08		9280
Unrefrigerated Warehouse-No Rail													3521	3521	0.26	0.03		3537
Parking Lot													875	875	0.06	0.01		879
Other Non-Asphalt Surfaces													0	0	0	0		0
Total													13635	13635	1	0.12		13696
Annual																		
Refrigerated Warehouse-No Rail													1529	1529	0.11	0.01		1536
Unrefrigerated Warehouse-No Rail													583	583	0.04	0.01		586
Parking Lot													145	145	0.01	< 0.005		146
Other Non-Asphalt Surfaces													0	0	0	0		0
Total													2257	2257	0.17	0.02		2268

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail	0.29	0.14	2.61	2.19	0.02	0.2		0.2	0.2		0.2		3111	3111	0.28	0.01		3120
Unrefrigerated Warehouse-No Rail	0.35	0.17	3.16	2.65	0.02	0.24		0.24	0.24		0.24		3770	3770	0.33	0.01		3781
Parking Lot	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Other Non-Asphalt Surfaces	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Total	0.63	0.32	5.77	4.84	0.03	0.44		0.44	0.44		0.44		6882	6882	0.61	0.01		6901
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail	0.29	0.14	2.61	2.19	0.02	0.2		0.2	0.2		0.2		3111	3111	0.28	0.01		3120
Unrefrigerated Warehouse-No Rail	0.35	0.17	3.16	2.65	0.02	0.24		0.24	0.24		0.24		3770	3770	0.33	0.01		3781
Parking Lot	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Other Non-Asphalt Surfaces	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Total	0.63	0.32	5.77	4.84	0.03	0.44		0.44	0.44		0.44		6882	6882	0.61	0.01		6901
Annual																		
Refrigerated Warehouse-No Rail	0.05	0.03	0.48	0.4	< 0.005	0.04		0.04	0.04		0.04		515	515	0.05	< 0.005		517
Unrefrigerated Warehouse-No Rail	0.06	0.03	0.58	0.48	< 0.005	0.04		0.04	0.04		0.04		624	624	0.06	< 0.005		626
Parking Lot	0	0	0	0	0	0		0	0		0		0	0	0	0		0

Other Non-Asphalt Surfaces	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Total	0.12	0.06	1.05	0.88	0.01	0.08		0.08	0.08		0.08		1139	1139	0.1	< 0.005		1142
4.3. Area Emissions by Source																		
4.3.1. Unmitigated																		
Source	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Consumer Products		21.5																
Architectural Coatings		0																
Landscape Equipment	7.72	7.13	0.37	43.4	< 0.005	0.06		0.06	0.08		0.08		178	178	0.01	< 0.005		179
Total	7.72	28.6	0.37	43.4	< 0.005	0.06		0.06	0.08		0.08		178	178	0.01	< 0.005		179
Daily, Winter (Max)																		
Consumer Products		21.5																
Architectural Coatings		0																
Total		21.5																
Annual																		
Consumer Products		3.92																
Architectural Coatings		0																
Landscape Equipment	0.97	0.89	0.05	5.42	< 0.005	0.01		0.01	0.01		0.01		20.2	20.2	< 0.005	< 0.005		20.3
Total	0.97	4.81	0.05	5.42	< 0.005	0.01		0.01	0.01		0.01		20.2	20.2	< 0.005	< 0.005		20.3
4.4. Water Emissions by Land Use																		
4.4.1. Unmitigated																		
Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail												0	0	0	0	0		0
Unrefrigerated Warehouse-No Rail												103	404	506	0.38	0.23		584
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	48.6	48.6	< 0.005	< 0.005		48.8
Total												103	452	555	0.39	0.23		633
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail												0	0	0	0	0		0
Unrefrigerated Warehouse-No Rail												103	404	506	0.38	0.23		584
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	48.6	48.6	< 0.005	< 0.005		48.8
Total												103	452	555	0.39	0.23		633
Annual																		
Refrigerated Warehouse-No Rail												0	0	0	0	0		0
Unrefrigerated Warehouse-No Rail												17	66.8	83.8	0.06	0.04		96.7
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	8.05	8.05	< 0.005	< 0.005		8.08
Total												17	74.9	91.9	0.06	0.04		105
4.5. Waste Emissions by Land Use																		
4.5.1. Unmitigated																		
Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail												54.3	0	54.3	5.43	0		190
Unrefrigerated Warehouse-No Rail												85.5	0	85.5	8.55	0		299
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	0	0	0	0		0
Total												140	0	140	14	0		489
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail												54.3	0	54.3	5.43	0		190
Unrefrigerated Warehouse-No Rail												85.5	0	85.5	8.55	0		299
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	0	0	0	0		0
Total												140	0	140	14	0		489
Annual																		
Refrigerated Warehouse-No Rail												8.99	0	8.99	0.9	0		31.5
Unrefrigerated Warehouse-No Rail												14.2	0	14.2	1.42	0		49.5
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	0	0	0	0		0
Total												23.1	0	23.1	2.31	0		81
4.6. Refrigerant Emissions by Land Use																		
4.6.1. Unmitigated																		
Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail																	10327	10327
Total																	10327	10327
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail																	10327	10327
Total																	10327	10327
Annual																		
Refrigerated Warehouse-No Rail																	1710	1710
Total																	1710	1710
4.7. Offroad Emissions By Equipment Type																		
4.7.1. Unmitigated																		
Equipment Type	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		
4.8. Stationary Emissions By Equipment Type																		
4.8.1. Unmitigated																		
Equipment Type	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		
4.9. User Defined Emissions By Equipment Type																		
4.9.1. Unmitigated																		
Equipment Type	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		
4.10. Soil Carbon Accumulation By Vegetation Type																		
4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated																		
Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		
4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated																		
Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		
4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated																		
Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Daily, Winter (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		

Annual
Avoided
Subtotal
Sequestered
Subtotal
Removed
Subtotal

5. Activity Data
5.9. Operational Mobile Sources
5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Refrigerated Warehouse-No Rail	671	671	671	244802	11201	11201	11201	4088395
Unrefrigerated Warehouse-No Rail	1056	1056	1056	385553	17641	17641	17641	6439048
Parking Lot	0	0	0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0

5.10. Operational Area Sources
5.10.1. Hearths
5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0	1496694	498898	48636

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0
Summer Days	day/yr	250

5.11. Operational Energy Consumption
5.11.1. Unmitigated

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Refrigerated Warehouse-No Rail	7493499	450	0.033	0.004	9708441
Unrefrigerated Warehouse-No Rail	2856407	450	0.033	0.004	11764155
Parking Lot	710086	450	0.033	0.004	0
Other Non-Asphalt Surfaces	0	450	0.033	0.004	0
Other Non-Asphalt Surfaces	0	450	0.033	0.004	0

5.12. Operational Water and Wastewater Consumption
5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Refrigerated Warehouse-No Rail	0	0
Unrefrigerated Warehouse-No Rail	48092765	0
Parking Lot	0	0
Other Non-Asphalt Surfaces	0	7429575
Other Non-Asphalt Surfaces	0	0

5.13. Operational Waste Generation
5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Refrigerated Warehouse-No Rail	101	
Unrefrigerated Warehouse-No Rail	159	
Parking Lot	0	
Other Non-Asphalt Surfaces	0	
Other Non-Asphalt Surfaces	0	

5.14. Operational Refrigeration and Air Conditioning Equipment
5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Refrigerated Warehouse-No Rail	Cold storage	R-404A	3922	7.5	7.5	7.5	25

5.15. Operational Off-Road Equipment
5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources
5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

8. User Changes to Default Data

Screen	Justification
Characteristics: Project Details	
Characteristics: Utility Information	2021 SCE Sustainability Report
Land Use	Based on land use area provided by applicant
Operations: Vehicle Data	represents passenger trips only, assumes operations on weekdays and weekends, assumes 100% nonres H-W trips
Operations: Fleet Mix	Fleet mix for the project is modified to reflect a higher proportion of passenger vehicles that the regional VMT. Assumes a mix of approximately 97% passenger vehicles, 2% medium duty trucks, and 1% heavy duty trucks and buses.
Operations: Water and Waste Water	based on water and wastewater numbers from the Utilities and Service Systems section. Assumes 100% aerobic treatment.
Operations: Solid Waste	based on the CalRecycle Solid Waste Generation Rate of 1.42 lb/KSF/day. See Section 5.17, Utilities and Service Systems for calculations.
Operations: Architectural Coatings	see assumptions file for striping calcs, MM: 0 g/L paints for architectural coating

Operation (Option 2)

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Irwindale Gateway Project (Option 2) Operations
Operational Year	7/19/1905
Lead Agency	
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.8
Precipitation (days)	22.4
Location	13620 Live Oak Ln, Irwindale, CA 91706, USA
County	Los Angeles-South Coast
City	Irwindale
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4900
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.13

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Refrigerated Warehouse-No Rail	388	1000sqft	8.67	387500	0	0		
Unrefrigerated Warehouse-No Rail	317	1000sqft	7.08	316570	0	0		
Parking Lot	581	1000sqft	13.3	0	0	0		
Other Non-Asphalt Surfaces	180	1000sqft	4.14	0	180333	0		
Other Non-Asphalt Surfaces	857	1000sqft	19.7	0	0	0		

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	10.7	26.6	7.27	87.2	0.15	0.43	4.94	5.37	0.44	0.86	1.29	201	29431	29633	12	0.64	10365	40490
Daily, Winter (Max)																		
Unmit.	5.23	21.5	7.35	51	0.14	0.39	4.94	5.33	0.38	0.86	1.24	201	28695	28896	12	0.67	10328	39723
Average Daily (Max)																		
Unmit.	8.93	24.9	7.57	73.6	0.14	0.41	4.94	5.36	0.42	0.86	1.28	201	28945	29147	12	0.67	10343	39990
Annual (Max)																		
Unmit.	1.63	4.55	1.38	13.4	0.03	0.08	0.9	0.98	0.08	0.16	0.23	33.3	4792	4826	1.99	0.11	1712	6621

2.5. Operations Emissions by Sector, Unmitigated

Sector	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Mobile	4.79	4.27	2.77	53	0.12	0.06	4.94	5.01	0.06	0.86	0.92		12094	12094	0.44	0.3	38.1	12233
Area	5.45	22.1	0.26	30.6	< 0.005	0.04		0.04	0.05		0.05		126	126	0.01	< 0.005		126
Energy	0.47	0.23	4.25	3.57	0.03	0.32		0.32	0.32		0.32		16759	16759	1.31	0.11		16826
Water												103	452	555	0.39	0.23		633
Waste												98.7	0	98.7	9.86	0		345
Refrig.																	10327	10327
Total	10.7	26.6	7.27	87.2	0.15	0.43	4.94	5.37	0.44	0.86	1.29	201	29431	29633	12	0.64	10365	40490
Daily, Winter (Max)																		
Mobile	4.77	4.25	3.1	47.5	0.11	0.06	4.94	5.01	0.06	0.86	0.92		11483	11483	0.45	0.33	0.99	11592
Area		17																
Energy	0.47	0.23	4.25	3.57	0.03	0.32		0.32	0.32		0.32		16759	16759	1.31	0.11		16826
Water												103	452	555	0.39	0.23		633
Waste												98.7	0	98.7	9.86	0		345
Refrig.																	10327	10327
Total	5.23	21.5	7.35	51	0.14	0.39	4.94	5.33	0.38	0.86	1.24	201	28695	28896	12	0.67	10328	39723
Average Daily																		
Mobile	4.73	4.21	3.15	49	0.11	0.06	4.94	5.01	0.06	0.86	0.92		11648	11648	0.45	0.33	16.4	11773
Area	3.73	20.5	0.18	21	< 0.005	0.03		0.03	0.04		0.04		86.2	86.2	< 0.005	< 0.005		86.6
Energy	0.47	0.23	4.25	3.57	0.03	0.32		0.32	0.32		0.32		16759	16759	1.31	0.11		16826
Water												103	452	555	0.39	0.23		633
Waste												98.7	0	98.7	9.86	0		345
Refrig.																	10327	10327
Total	8.93	24.9	7.57	73.6	0.14	0.41	4.94	5.36	0.42	0.86	1.28	201	28945	29147	12	0.67	10343	39990
Annual																		
Mobile	0.86	0.77	0.57	8.95	0.02	0.01	0.9	0.91	0.01	0.16	0.17		1928	1928	0.07	0.05	2.72	1949
Area	0.68	3.74	0.03	3.83	< 0.005	0.01		0.01	0.01		0.01		14.3	14.3	< 0.005	< 0.005		14.3
Energy	0.09	0.04	0.78	0.65	< 0.005	0.06		0.06	0.06		0.06		2775	2775	0.22	0.02		2786
Water												17	74.9	91.9	0.06	0.04		105
Waste												16.3	0	16.3	1.63	0		57.1
Refrig.																	1710	1710
Total	1.63	4.55	1.38	13.4	0.03	0.08	0.9	0.98	0.08	0.16	0.23	33.3	4792	4826	1.99	0.11	1712	6621

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail	2.64	2.35	1.52	29.2	0.07	0.03	2.72	2.76	0.03	0.47	0.5		6656	6656	0.24	0.17	21	6733
Unrefrigerated Warehouse-No Rail	2.15	1.92	1.24	23.8	0.05	0.03	2.22	2.25	0.03	0.39	0.41		5438	5438	0.2	0.14	17.1	5500
Parking Lot	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Total	4.79	4.27	2.77	53	0.12	0.06	4.94	5.01	0.06	0.86	0.92		12094	12094	0.44	0.3	38.1	12233
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail	2.62	2.34	1.71	26.1	0.06	0.03	2.72	2.76	0.03	0.47	0.5		6320	6320	0.25	0.18	0.54	6380
Unrefrigerated Warehouse-No Rail	2.14	1.91	1.4	21.3	0.05	0.03	2.22	2.25	0.03	0.39	0.41		5163	5163	0.2	0.15	0.44	5212
Parking Lot	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Total	4.77	4.25	3.1	47.5	0.11	0.06	4.94	5.01	0.06	0.86	0.92		11483	11483	0.45	0.33	0.99	11592
Annual																		
Refrigerated Warehouse-No Rail	0.48	0.42	0.32	4.93	0.01	0.01	0.5	0.5	0.01	0.09	0.09		1061	1061	0.04	0.03	1.5	1073
Unrefrigerated Warehouse-No Rail	0.39	0.35	0.26	4.02	0.01	0.01	0.41	0.41	< 0.005	0.07	0.08		867	867	0.03	0.02	1.22	876
Parking Lot	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Total	0.86	0.77	0.57	8.95	0.02	0.01	0.9	0.91	0.01	0.16	0.17		1928	1928	0.07	0.05	2.72	1949

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail													9238	9238	0.68	0.08		9280
Unrefrigerated Warehouse-No Rail													1827	1827	0.13	0.02		1835
Parking Lot													627	627	0.05	0.01		630
Other Non-Asphalt Surfaces													0	0	0	0		0
Total													11692	11692	0.86	0.1		11745
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail													9238	9238	0.68	0.08		9280
Unrefrigerated Warehouse-No Rail													1827	1827	0.13	0.02		1835
Parking Lot													627	627	0.05	0.01		630
Other Non-Asphalt Surfaces													0	0	0	0		0
Total													11692	11692	0.86	0.1		11745
Annual																		
Refrigerated Warehouse-No Rail													1529	1529	0.11	0.01		1536
Unrefrigerated Warehouse-No Rail													302	302	0.02	< 0.005		304
Parking Lot													104	104	0.01	< 0.005		104
Other Non-Asphalt Surfaces													0	0	0	0		0
Total													1936	1936	0.14	0.02		1944

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail	0.29	0.14	2.61	2.19	0.02	0.2		0.2	0.2		0.2		3111	3111	0.28	0.01		3120
Unrefrigerated Warehouse-No Rail	0.18	0.09	1.64	1.38	0.01	0.12		0.12	0.12		0.12		1956	1956	0.17	< 0.005		1961
Parking Lot	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Other Non-Asphalt Surfaces	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Total	0.47	0.23	4.25	3.57	0.03	0.32		0.32	0.32		0.32		5067	5067	0.45	0.01		5081
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail	0.29	0.14	2.61	2.19	0.02	0.2		0.2	0.2		0.2		3111	3111	0.28	0.01		3120
Unrefrigerated Warehouse-No Rail	0.18	0.09	1.64	1.38	0.01	0.12		0.12	0.12		0.12		1956	1956	0.17	< 0.005		1961
Parking Lot	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Other Non-Asphalt Surfaces	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Total	0.47	0.23	4.25	3.57	0.03	0.32		0.32	0.32		0.32		5067	5067	0.45	0.01		5081
Annual																		
Refrigerated Warehouse-No Rail	0.05	0.03	0.48	0.4	< 0.005	0.04		0.04	0.04		0.04		515	515	0.05	< 0.005		517
Unrefrigerated Warehouse-No Rail	0.03	0.02	0.3	0.25	< 0.005	0.02		0.02	0.02		0.02		324	324	0.03	< 0.005		325
Parking Lot	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Other Non-Asphalt Surfaces	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Total	0.09	0.04	0.78	0.65	< 0.005	0.06		0.06	0.06		0.06		839	839	0.07	< 0.005		841

4.3. Area Emissions by Source

4.3.2. Unmitigated

Source	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Consumer Products		15.2																
Architectural Coatings		1.85																
Landscape Equipment	5.45	5.03	0.26	30.6	< 0.005	0.04		0.04	0.05		0.05		126	126	0.01	< 0.005		126
Total	5.45	22.1	0.26	30.6	< 0.005	0.04		0.04	0.05		0.05		126	126	0.01	< 0.005		126
Daily, Winter (Max)																		
Consumer Products		15.2																
Architectural Coatings		1.85																
Total		17																
Annual																		
Consumer Products		2.77																
Architectural Coatings		0.34																
Landscape Equipment	0.68	0.63	0.03	3.83	< 0.005	0.01		0.01	0.01		0.01		14.3	14.3	< 0.005	< 0.005		14.3
Total	0.68	3.74	0.03	3.83	< 0.005	0.01		0.01	0.01		0.01		14.3	14.3	< 0.005	< 0.005		14.3

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail												0	0	0	0	0		0
Unrefrigerated Warehouse-No Rail												103	404	506	0.38	0.23		584
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	48.6	48.6	< 0.005	< 0.005		48.8
Total												103	452	555	0.39	0.23		633
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail												0	0	0	0	0		0
Unrefrigerated Warehouse-No Rail												103	404	506	0.38	0.23		584
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	48.6	48.6	< 0.005	< 0.005		48.8
Total												103	452	555	0.39	0.23		633
Annual																		
Refrigerated Warehouse-No Rail												0	0	0	0	0		0
Unrefrigerated Warehouse-No Rail												17	66.8	83.8	0.06	0.04		96.7
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	8.05	8.05	< 0.005	< 0.005		8.08
Total												17	74.9	91.9	0.06	0.04		105

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail												54.3	0	54.3	5.43	0		190
Unrefrigerated Warehouse-No Rail												44.4	0	44.4	4.43	0		155
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	0	0	0	0		0
Total												98.7	0	98.7	9.86	0		345
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail												54.3	0	54.3	5.43	0		190
Unrefrigerated Warehouse-No Rail												44.4	0	44.4	4.43	0		155
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	0	0	0	0		0
Total												98.7	0	98.7	9.86	0		345
Annual																		
Refrigerated Warehouse-No Rail												8.99	0	8.99	0.9	0		31.5
Unrefrigerated Warehouse-No Rail												7.34	0	7.34	0.73	0		25.7
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	0	0	0	0		0
Total												16.3	0	16.3	1.63	0		57.1

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail																	10327	10327
Total																	10327	10327
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail																	10327	10327
Total																	10327	10327
Annual																		
Refrigerated Warehouse-No Rail																	1710	1710
Total																	1710	1710

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Equipment Type	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Equipment Type	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Equipment Type	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Daily, Winter (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Annual																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		

5. Activity Data
5.9. Operational Mobile Sources
5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Refrigerated Warehouse-No Rail	602	602	602	219568	10046	10046	10046	3666963
Unrefrigerated Warehouse-No Rail	491	491	491	179377	8208	8208	8208	2995743
Parking Lot	0	0	0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0

5.10. Operational Area Sources
5.10.1. Hearths
5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0	1056105	352035	49662

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0
Summer Days	day/yr	250

5.11. Operational Energy Consumption
5.11.1. Unmitigated

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Refrigerated Warehouse-No Rail	7493499	450	0.033	0.004	9708441
Unrefrigerated Warehouse-No Rail	1481663	450	0.033	0.004	6102250
Parking Lot	508868	450	0.033	0.004	0
Other Non-Asphalt Surfaces	0	450	0.033	0.004	0
Other Non-Asphalt Surfaces	0	450	0.033	0.004	0

5.12. Operational Water and Wastewater Consumption
5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Refrigerated Warehouse-No Rail	0	0
Unrefrigerated Warehouse-No Rail	48092765	0
Parking Lot	0	0
Other Non-Asphalt Surfaces	0	7429575
Other Non-Asphalt Surfaces	0	0

5.13. Operational Waste Generation
5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Refrigerated Warehouse-No Rail	101	
Unrefrigerated Warehouse-No Rail	82.3	
Parking Lot	0	
Other Non-Asphalt Surfaces	0	
Other Non-Asphalt Surfaces	0	

5.14. Operational Refrigeration and Air Conditioning Equipment
5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Refrigerated Warehouse-No Rail	Cold storage	R-404A	3922	7.5	7.5	7.5	25

5.15. Operational Off-Road Equipment
5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources
5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

8. User Changes to Default Data

Screen	Justification
Characteristics: Project Details	
Characteristics: Utility Information	2021 SCE Sustainability Report
Land Use	Based on land use area provided by applicant
Operations: Vehicle Data	represents passenger trips only, assumes operations on weekdays and weekends, assumes 100% nonres H-W trips
Operations: Fleet Mix	Fleet mix for the project is modified to reflect a higher proportion of passenger vehicles that the regional VMT. Assumes a mix of approximately 97% passenger vehicles, 2% medium duty trucks, and 1% heavy duty trucks and buses.
Operations: Water and Waste Water	based on water and wastewater numbers from the Section 5.17, Utilities and Service Systems. Assumes 100% aerobic treatment.
Operations: Solid Waste	based on the CalRecycle Solid Waste Generation Rate of 1.42 lb/KSF/day. See Section 5.17, Utilities and Service Systems for calculations.
Operations: Architectural Coatings	South Coast AQMD Rule 1113. see assumptions file for striping calculations

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Irwindale Gateway Project (Option 2) Operations Truck
Operational Year	7/19/1905
Lead Agency	
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.8
Precipitation (days)	22.4
Location	13620 Live Oak Ln, Irwindale, CA 91706, USA
County	Los Angeles-South Coast
City	Irwindale
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4900
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.13

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Refrigerated Warehouse-No Rail	388	1000sqft	8.67	387500	0	0		
Unrefrigerated Warehouse-No Rail	317	1000sqft	7.08	316570	0	0		
Parking Lot	581	1000sqft	13.3	0	0	0		
Other Non-Asphalt Surfaces	180	1000sqft	4.14	0	180333	0		
Other Non-Asphalt Surfaces	857	1000sqft	19.7	0	0	0		

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	9.35	23.1	64.8	55.9	0.52	1.2	8.28	9.49	1.18	2	3.18	201	72250	72451	14.2	9.1	10445	85964
Daily, Winter (Max)																		
Unmit.	3.86	18	66.9	25.4	0.52	1.16	8.28	9.44	1.13	2	3.13	201	72136	72338	14.1	9.11	10330	85735
Average Daily (Max)																		
Unmit.	7.62	21.5	67.9	46.3	0.52	1.19	8.28	9.47	1.16	2	3.16	201	72215	72417	14.2	9.1	10378	85862
Annual (Max)																		
Unmit.	1.39	3.92	12.4	8.44	0.1	0.22	1.51	1.73	0.21	0.37	0.58	33.3	11956	11989	2.34	1.51	1718	14215

2.5. Operations Emissions by Sector, Unmitigated

Sector	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Mobile	3.43	0.75	60.3	21.7	0.5	0.84	8.28	9.12	0.8	2	2.8		54912	54912	2.59	8.76	118	57707
Area	5.45	22.1	0.26	30.6	< 0.005	0.04		0.04	0.05		0.05		126	126	0.01	< 0.005		126
Energy	0.47	0.23	4.25	3.57	0.03	0.32		0.32	0.32		0.32		16759	16759	1.31	0.11		16826
Water												103	452	555	0.39	0.23		633
Waste												98.7	0	98.7	9.86	0		345
Refrig.																	10327	10327
Total	9.35	23.1	64.8	55.9	0.52	1.2	8.28	9.49	1.18	2	3.18	201	72250	72451	14.2	9.1	10445	85964
Daily, Winter (Max)																		
Mobile	3.4	0.72	62.7	21.8	0.5	0.84	8.28	9.12	0.8	2	2.8		54925	54925	2.59	8.76	3.07	57604
Area		17																
Energy	0.47	0.23	4.25	3.57	0.03	0.32		0.32	0.32		0.32		16759	16759	1.31	0.11		16826
Water												103	452	555	0.39	0.23		633
Waste												98.7	0	98.7	9.86	0		345
Refrig.																	10327	10327
Total	3.86	18	66.9	25.4	0.52	1.16	8.28	9.44	1.13	2	3.13	201	72136	72338	14.1	9.11	10330	85735
Average Daily																		
Mobile	3.42	0.74	63.5	21.7	0.5	0.84	8.28	9.12	0.8	2	2.8		54918	54918	2.59	8.76	51.1	57645
Area	3.73	20.5	0.18	21	< 0.005	0.03		0.03	0.04		0.04		86.2	86.2	< 0.005	< 0.005		86.6
Energy	0.47	0.23	4.25	3.57	0.03	0.32		0.32	0.32		0.32		16759	16759	1.31	0.11		16826
Water												103	452	555	0.39	0.23		633
Waste												98.7	0	98.7	9.86	0		345
Refrig.																	10327	10327
Total	7.62	21.5	67.9	46.3	0.52	1.19	8.28	9.47	1.16	2	3.16	201	72215	72417	14.2	9.1	10378	85862
Annual																		
Mobile	0.62	0.14	11.6	3.96	0.09	0.15	1.51	1.66	0.15	0.37	0.51		9092	9092	0.43	1.45	8.46	9544
Area	0.68	3.74	0.03	3.83	< 0.005	0.01		0.01	0.01		0.01		14.3	14.3	< 0.005	< 0.005		14.3
Energy	0.09	0.04	0.78	0.65	< 0.005	0.06		0.06	0.06		0.06		2775	2775	0.22	0.02		2786
Water												17	74.9	91.9	0.06	0.04		105
Waste												16.3	0	16.3	1.63	0		57.1
Refrig.																	1710	1710
Total	1.39	3.92	12.4	8.44	0.1	0.22	1.51	1.73	0.21	0.37	0.58	33.3	11956	11989	2.34	1.51	1718	14215

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail	1.89	0.41	33.2	11.9	0.27	0.46	4.56	5.02	0.44	1.1	1.54		30222	30222	1.43	4.82	65.2	31760
Unrefrigerated Warehouse-No Rail	1.54	0.34	27.1	9.74	0.22	0.38	3.72	4.1	0.36	0.9	1.26		24690	24690	1.17	3.94	53.2	25947
Parking Lot	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Total	3.43	0.75	60.3	21.7	0.5	0.84	8.28	9.12	0.8	2	2.8		54912	54912	2.59	8.76	118	57707
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail	1.87	0.4	34.5	12	0.27	0.46	4.56	5.02	0.44	1.1	1.54		30229	30229	1.43	4.82	1.69	31704
Unrefrigerated Warehouse-No Rail	1.53	0.32	28.2	9.8	0.22	0.38	3.72	4.1	0.36	0.9	1.26		24696	24696	1.17	3.94	1.38	25900
Parking Lot	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Total	3.4	0.72	62.7	21.8	0.5	0.84	8.28	9.12	0.8	2	2.8		54925	54925	2.59	8.76	3.07	57604
Annual																		
Refrigerated Warehouse-No Rail	0.34	0.07	6.38	2.18	0.05	0.08	0.83	0.92	0.08	0.2	0.28		5004	5004	0.24	0.8	4.66	5253
Unrefrigerated Warehouse-No Rail	0.28	0.06	5.21	1.78	0.04	0.07	0.68	0.75	0.07	0.16	0.23		4088	4088	0.19	0.65	3.81	4291
Parking Lot	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Total	0.62	0.14	11.6	3.96	0.09	0.15	1.51	1.66	0.15	0.37	0.51		9092	9092	0.43	1.45	8.46	9544

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail													9238	9238	0.68	0.08		9280
Unrefrigerated Warehouse-No Rail													1827	1827	0.13	0.02		1835
Parking Lot													627	627	0.05	0.01		630
Other Non-Asphalt Surfaces													0	0	0	0		0
Total													11692	11692	0.86	0.1		11745
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail													9238	9238	0.68	0.08		9280
Unrefrigerated Warehouse-No Rail													1827	1827	0.13	0.02		1835
Parking Lot													627	627	0.05	0.01		630
Other Non-Asphalt Surfaces													0	0	0	0		0
Total													11692	11692	0.86	0.1		11745
Annual																		
Refrigerated Warehouse-No Rail													1529	1529	0.11	0.01		1536
Unrefrigerated Warehouse-No Rail													302	302	0.02	< 0.005		304
Parking Lot													104	104	0.01	< 0.005		104
Other Non-Asphalt Surfaces													0	0	0	0		0
Total													1936	1936	0.14	0.02		1944

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail	0.29	0.14	2.61	2.19	0.02	0.2		0.2	0.2		0.2		3111	3111	0.28	0.01		3120
Unrefrigerated Warehouse-No Rail	0.18	0.09	1.64	1.38	0.01	0.12		0.12	0.12		0.12		1956	1956	0.17	< 0.005		1961
Parking Lot	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Other Non-Asphalt Surfaces	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Total	0.47	0.23	4.25	3.57	0.03	0.32		0.32	0.32		0.32		5067	5067	0.45	0.01		5081
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail	0.29	0.14	2.61	2.19	0.02	0.2		0.2	0.2		0.2		3111	3111	0.28	0.01		3120
Unrefrigerated Warehouse-No Rail	0.18	0.09	1.64	1.38	0.01	0.12		0.12	0.12		0.12		1956	1956	0.17	< 0.005		1961
Parking Lot	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Other Non-Asphalt Surfaces	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Total	0.47	0.23	4.25	3.57	0.03	0.32		0.32	0.32		0.32		5067	5067	0.45	0.01		5081
Annual																		
Refrigerated Warehouse-No Rail	0.05	0.03	0.48	0.4	< 0.005	0.04		0.04	0.04		0.04		515	515	0.05	< 0.005		517
Unrefrigerated Warehouse-No Rail	0.03	0.02	0.3	0.25	< 0.005	0.02		0.02	0.02		0.02		324	324	0.03	< 0.005		325
Parking Lot	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Other Non-Asphalt Surfaces	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Total	0.09	0.04	0.78	0.65	< 0.005	0.06		0.06	0.06		0.06		839	839	0.07	< 0.005		841

4.3. Area Emissions by Source

4.3.2. Unmitigated

Source	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Consumer Products		15.2																
Architectural Coatings		1.85																
Landscape Equipment	5.45	5.03	0.26	30.6	< 0.005	0.04		0.04	0.05		0.05		126	126	0.01	< 0.005		126
Total	5.45	22.1	0.26	30.6	< 0.005	0.04		0.04	0.05		0.05		126	126	0.01	< 0.005		126
Daily, Winter (Max)																		
Consumer Products		15.2																
Architectural Coatings		1.85																
Total		17																
Annual																		
Consumer Products		2.77																
Architectural Coatings		0.34																
Landscape Equipment	0.68	0.63	0.03	3.83	< 0.005	0.01		0.01	0.01		0.01		14.3	14.3	< 0.005	< 0.005		14.3
Total	0.68	3.74	0.03	3.83	< 0.005	0.01		0.01	0.01		0.01		14.3	14.3	< 0.005	< 0.005		14.3

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail												0	0	0	0	0		0
Unrefrigerated Warehouse-No Rail												103	404	506	0.38	0.23		584
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	48.6	48.6	< 0.005	< 0.005		48.8
Total												103	452	555	0.39	0.23		633
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail												0	0	0	0	0		0
Unrefrigerated Warehouse-No Rail												103	404	506	0.38	0.23		584
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	48.6	48.6	< 0.005	< 0.005		48.8
Total												103	452	555	0.39	0.23		633
Annual																		
Refrigerated Warehouse-No Rail												0	0	0	0	0		0
Unrefrigerated Warehouse-No Rail												17	66.8	83.8	0.06	0.04		96.7
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	8.05	8.05	< 0.005	< 0.005		8.08
Total												17	74.9	91.9	0.06	0.04		105

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail												54.3	0	54.3	5.43	0		190
Unrefrigerated Warehouse-No Rail												44.4	0	44.4	4.43	0		155
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	0	0	0	0		0
Total												98.7	0	98.7	9.86	0		345
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail												54.3	0	54.3	5.43	0		190
Unrefrigerated Warehouse-No Rail												44.4	0	44.4	4.43	0		155
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	0	0	0	0		0
Total												98.7	0	98.7	9.86	0		345
Annual																		
Refrigerated Warehouse-No Rail												8.99	0	8.99	0.9	0		31.5
Unrefrigerated Warehouse-No Rail												7.34	0	7.34	0.73	0		25.7
Parking Lot												0	0	0	0	0		0
Other Non-Asphalt Surfaces												0	0	0	0	0		0
Total												16.3	0	16.3	1.63	0		57.1

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail																	10327	10327
Total																	10327	10327
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail																	10327	10327
Total																	10327	10327
Annual																		
Refrigerated Warehouse-No Rail																	1710	1710
Total																	1710	1710

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Equipment Type	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Equipment Type	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Equipment Type	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Daily, Winter (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Annual																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		

5. Activity Data
5.9. Operational Mobile Sources
5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Refrigerated Warehouse-No Rail	230	230	230	83970	9179	9179	9179	3350410
Unrefrigerated Warehouse-No Rail	188	188	188	68600	7499	7499	7499	2737133
Parking Lot	0	0	0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0	0	0	0

5.10. Operational Area Sources
5.10.1. Hearths
5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0	1056105	352035	49662

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0
Summer Days	day/yr	250

5.11. Operational Energy Consumption
5.11.1. Unmitigated

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Refrigerated Warehouse-No Rail	7493499	450	0.033	0.004	9708441
Unrefrigerated Warehouse-No Rail	1481663	450	0.033	0.004	6102250
Parking Lot	508868	450	0.033	0.004	0
Other Non-Asphalt Surfaces	0	450	0.033	0.004	0
Other Non-Asphalt Surfaces	0	450	0.033	0.004	0

5.12. Operational Water and Wastewater Consumption
5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Refrigerated Warehouse-No Rail	0	0
Unrefrigerated Warehouse-No Rail	48092765	0
Parking Lot	0	0
Other Non-Asphalt Surfaces	0	7429575
Other Non-Asphalt Surfaces	0	0

5.13. Operational Waste Generation
5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Refrigerated Warehouse-No Rail	101	
Unrefrigerated Warehouse-No Rail	82.3	
Parking Lot	0	
Other Non-Asphalt Surfaces	0	
Other Non-Asphalt Surfaces	0	

5.14. Operational Refrigeration and Air Conditioning Equipment
5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Refrigerated Warehouse-No Rail	Cold storage	R-404A	3922	7.5	7.5	7.5	25

5.15. Operational Off-Road Equipment
5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources
5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

8. User Changes to Default Data

Screen	Justification
Characteristics: Project Details	
Characteristics: Utility Information	2021 SCE Sustainability Report
Land Use	Based on land use area provided by applicant
Operations: Vehicle Data	represents truck trips only, assumes operations on weekdays and weekends, assumes 100% nonres H-W trips
Operations: Fleet Mix	Truck trips assumed to be all HHDT
Operations: Water and Waste Water	based on water and wastewater numbers from the Section 5.17, Utilities and Service Systems. Assumes 100% aerobic treatment.
Operations: Solid Waste	based on the CalRecycle Solid Waste Generation Rate of 1.42 lb/KSF/day. See Section 5.17, Utilities and Service Systems for calculations.
Operations: Architectural Coatings	see assumptions file for architectural coating calculations

LST Worksheets

Construction Localized Significance Thresholds: Option 1 Building 1 Construction 2024 and Utilities Trenching OR Option 2 BESS Site Utility Trenching and Construction

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	2.31	25	82	664	2180	68.10

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625	2	8	1
NOx	**136**	Tractors	0.5	0.0625	3	7	1.3125
CO	**1,034**	Graders	0.5	0.0625			0
PM10	**276.78**	Dozers	0.5	0.0625			0
PM2.5	**142.63**	Scrapers	1	0.125			0
						Acres	2.31

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	2	128	151	200	284	513
	3	153	176	229	312	537
		136	159	209	293	520
CO	2	953	1344	2445	5658	22093
	3	1213	1662	2857	6305	23248
		1034	1443	2574	5860	22454
PM10	2	7	22	42	84	207
	3	9	29	49	91	214
		8	24	44	86	209
PM2.5	2	5	7	12	26	100
	3	6	8	14	29	105
		5	7	13	27	102

East San Gabriel Valley

2.31 Acres

	25	**50**	**100**	**200**	**500**
NOx	136	159	209	293	520
CO	1034	1443	2574	5860	22454
PM10	8	24	44	86	209
PM2.5	5	7	13	27	102

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	2	9	3
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Option 1 Building 1 Construction 2024 OR Option 2 BESS Construction 2024

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	1.31	25	82	664	2180	68.10

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	**101**	Tractors	0.5	0.0625	3	7	1.3125
CO	**726**	Graders	0.5	0.0625			0
PM10	**269.31**	Dozers	0.5	0.0625			0
PM2.5	**135.69**	Scrapers	1	0.125			0
						Acres	1.31

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	89	112	159	251	489
	2	128	151	200	284	513
		101	124	172	261	497
CO	1	623	945	1914	4803	20721
	2	953	1344	2445	5658	22093
		726	1070	2080	5070	21150
PM10	1	5	14	34	75	199
	2	7	22	42	84	207
		6	17	37	78	202
PM2.5	1	3	5	9	22	94
	2	5	7	12	26	100
		4	6	10	23	96

East San Gabriel Valley

1.31 Acres

	25	**50**	**100**	**200**	**500**
NOx	101	124	172	261	497
CO	726	1070	2080	5070	21150
PM10	6	17	37	78	202
PM2.5	4	6	10	23	96

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	1	9	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Option 1 Building 1 Construction 2025 | Linear, Grubbing & Land Clearing OR Option 2 BESS Construction 2025 | Linear, Grubbing & Land Clearing

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	1.81	25	82	664	2180	68.10

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625	3	7	1.3125
NOx	**121**	Tractors	0.5	0.0625	1	8	0.5
CO	**891**	Graders	0.5	0.0625			0
PM10	**273.03**	Dozers	0.5	0.0625			0
PM2.5	**139.24**	Scrapers	1	0.125			0
						Acres	1.81

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	89	112	159	251	489
	2	128	151	200	284	513
		121	144	192	278	509
CO	1	623	945	1914	4803	20721
	2	953	1344	2445	5658	22093
		891	1269	2345	5498	21836
PM10	1	5	14	34	75	199
	2	7	22	42	84	207
		7	21	41	82	206
PM2.5	1	3	5	9	22	94
	2	5	7	12	26	100
		5	7	11	25	99

East San Gabriel Valley

1.81 Acres

	25	**50**	**100**	**200**	**500**
NOx	121	144	192	278	509
CO	891	1269	2345	5498	21836
PM10	7	21	41	82	206
PM2.5	5	7	11	25	99

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	1	9	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Option 1 Building 1 Construction 2025 | Linear, Grubbing & Land Clearing | Sewer Main and Public Storm Drain Site Site Preparation (Public) OR Option 2 BESS Construction 2025 | Linear, Grubbing & Land Clearing | Sewer Main and Storm Drain Site Site Preparation (Public)

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	3.75	25	82	664	2180	68.10

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625	4	7	1.75
NOx	**172**	Tractors	0.5	0.0625	1	8	0.5
CO	**1,408**	Graders	0.5	0.0625	1	8	0.5
PM10	**287.58**	Dozers	0.5	0.0625			0
PM2.5	**152.14**	Scrapers	1	0.125	1	8	1
						Acres	3.75

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	3	153	176	229	312	537
	4	178	202	257	340	560
		172	195	250	333	554
CO	3	1213	1662	2857	6305	23248
	4	1473	1981	3268	6953	24403
		1408	1901	3165	6791	24114
PM10	3	9	29	49	91	214
	4	12	36	56	98	222
		11	34	54	96	220
PM2.5	3	6	8	14	29	105
	4	7	10	15	32	111
		7	9	15	31	109

East San Gabriel Valley

3.75 Acres

	25	**50**	**100**	**200**	**500**
NOx	172	195	250	333	554
CO	1408	1901	3165	6791	24114
PM10	11	34	54	96	220
PM2.5	7	9	15	31	109

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	3	9	4
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Option 1 Building 1 Construction 2025 | Linear, Grading & Excavation | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public) OR Option 2 BESS Construction 2025 | Linear, Grading & Excavation | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public)

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	5.00	25	82	664	2180	68.10

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625	3	7	1.3125
NOx	**203**	Tractors	0.5	0.0625	2	6	0.75
CO	**1,733**	Tractors	0.5	0.0625	4	8	2
PM10	**296.98**	Graders	0.5	0.0625	1	8	0.5
PM2.5	**160.41**	Dozers	0.5	0.0625			0
		Scrapers	1	0.125	2	8	2
						Acres	6.56

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	5	203	227	286	368	584
	5	203	227	286	368	584
		203	227	286	368	584
CO	5	1733	2299	3680	7600	25558
	5	1733	2299	3680	7600	25558
		1733	2299	3680	7600	25558
PM10	5	14	43	63	105	229
	5	14	43	63	105	229
		14	43	63	105	229
PM2.5	5	8	11	17	35	116
	5	8	11	17	35	116
		8	11	17	35	116

East San Gabriel Valley

5.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	203	227	286	368	584
CO	1733	2299	3680	7600	25558
PM10	14	43	63	105	229
PM2.5	8	11	17	35	116

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	5	9	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Option 1 Building 1 Construction 2025, Paving, and Architectural Coating | Linear, Grading & Excavation | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public) OR Option 2 BESS Construction 2025 and Paving | Linear, Grading & Excavation | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public)

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	5.00	25	82	664	2180	68.10

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625	3	7	1.3125
NOx	**203**	Tractors	0.5	0.0625	2	6	0.75
CO	**1,733**	Tractors	0.5	0.0625	4	8	2
PM10	**296.98**	Graders	0.5	0.0625	1	8	0.5
PM2.5	**160.41**	Dozers	0.5	0.0625			0
		Scrapers	1	0.125	2	8	2
						Acres	6.56

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	5	203	227	286	368	584
	5	203	227	286	368	584
		203	227	286	368	584
CO	5	1733	2299	3680	7600	25558
	5	1733	2299	3680	7600	25558
		1733	2299	3680	7600	25558
PM10	5	14	43	63	105	229
	5	14	43	63	105	229
		14	43	63	105	229
PM2.5	5	8	11	17	35	116
	5	8	11	17	35	116
		8	11	17	35	116

East San Gabriel Valley

5.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	203	227	286	368	584
CO	1733	2299	3680	7600	25558
PM10	14	43	63	105	229
PM2.5	8	11	17	35	116

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	5	9	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Linear, Grading & Excavation | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public) OR Linear, Grading & Excavation | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public)

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	5.00	25	82	664	2180	68.10

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	**203**	Tractors	0.5	0.0625	2	6	0.75
CO	**1,733**	Tractors	0.5	0.0625	4	8	2
PM10	**296.98**	Graders	0.5	0.0625	1	8	0.5
PM2.5	**160.41**	Dozers	0.5	0.0625			0
		Scrapers	1	0.125	2	8	2
						Acres	5.25

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	5	203	227	286	368	584
	5	203	227	286	368	584
		203	227	286	368	584
CO	5	1733	2299	3680	7600	25558
	5	1733	2299	3680	7600	25558
		1733	2299	3680	7600	25558
PM10	5	14	43	63	105	229
	5	14	43	63	105	229
		14	43	63	105	229
PM2.5	5	8	11	17	35	116
	5	8	11	17	35	116
		8	11	17	35	116

East San Gabriel Valley

5.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	203	227	286	368	584
CO	1733	2299	3680	7600	25558
PM10	14	43	63	105	229
PM2.5	8	11	17	35	116

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	5	9	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Linear, Drainage, Utilities, & Sub-Grade | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public) OR Linear, Drainage, Utilities, & Sub-Grade | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public)

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	4.25	25	82	664	2180	68.10

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	**184**	Tractors	0.5	0.0625	2	6	0.75
CO	**1,538**	Tractors	0.5	0.0625	2	8	1
PM10	**291.34**	Graders	0.5	0.0625	1	8	0.5
PM2.5	**155.45**	Dozers	0.5	0.0625			0
		Scrapers	1	0.125	2	8	2
						Acres	4.25

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	4	178	202	257	340	560
	5	203	227	286	368	584
		184	208	265	347	566
CO	4	1473	1981	3268	6953	24403
	5	1733	2299	3680	7600	25558
		1538	2060	3371	7115	24692
PM10	4	12	36	56	98	222
	5	14	43	63	105	229
		12	38	58	100	224
PM2.5	4	7	10	15	32	111
	5	8	11	17	35	116
		7	10	16	33	112

East San Gabriel Valley

4.25 Acres

	25	**50**	**100**	**200**	**500**
NOx	184	208	265	347	566
CO	1538	2060	3371	7115	24692
PM10	12	38	58	100	224
PM2.5	7	10	16	33	112

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	4	9	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Linear, Paving | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public) OR Linear, Paving | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Public)

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	1.75	25	82	664	2180	68.10

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	**118**	Tractors	0.5	0.0625	2	6	0.75
CO	**870**	Tractors	0.5	0.0625	2	8	1
PM10	**272.57**	Graders	0.5	0.0625			0
PM2.5	**138.79**	Dozers	0.5	0.0625			0
		Scrapers	1	0.125			0
						Acres	1.75

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	89	112	159	251	489
	2	128	151	200	284	513
		118	141	190	276	507
CO	1	623	945	1914	4803	20721
	2	953	1344	2445	5658	22093
		871	1244	2312	5444	21750
PM10	1	5	14	34	75	199
	2	7	22	42	84	207
		7	20	40	82	205
PM2.5	1	3	5	9	22	94
	2	5	7	12	26	100
		5	7	11	25	99

East San Gabriel Valley

1.75 Acres

	25	**50**	**100**	**200**	**500**
NOx	118	141	190	276	507
CO	871	1244	2312	5444	21750
PM10	7	20	40	82	205
PM2.5	5	7	11	25	99

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	1	9	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Linear, Paving | Sewer Main and Storm Drain Site Utility Trenching, Pipeline Construction, and Paving (Public) OR Linear, Paving | Sewer Main and Storm Drain Site Utility Trenching, Pipeline Construction, and Paving (Public)

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	2.25	25	82	664	2180	68.10

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	**134**	Tractors	0.5	0.0625	2	6	0.75
CO	**1,018**	Tractors	0.5	0.0625	3	8	1.5
PM10	**276.31**	Graders	0.5	0.0625			0
PM2.5	**142.22**	Dozers	0.5	0.0625			0
		Scrapers	1	0.125			0
						Acres	2.25

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	2	128	151	200	284	513
	3	153	176	229	312	537
		134	157	207	291	519
CO	2	953	1344	2445	5658	22093
	3	1213	1662	2857	6305	23248
		1018	1424	2548	5820	22382
PM10	2	7	22	42	84	207
	3	9	29	49	91	214
		8	24	44	86	209
PM2.5	2	5	7	12	26	100
	3	6	8	14	29	105
		5	7	12	27	101

East San Gabriel Valley

2.25 Acres

	25	**50**	**100**	**200**	**500**
NOx	134	157	207	291	519
CO	1018	1424	2548	5820	22382
PM10	8	24	44	86	209
PM2.5	5	7	12	27	101

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	2	9	3
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Linear, Paving | Sewer Main and Storm Drain Site Paving (Public) OR Linear, Paving | Sewer Main and Storm Drain Site Paving (Public)

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	1.50	25	82	664	2180	68.10

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	**108**	Tractors	0.5	0.0625			0
CO	**788**	Tractors	0.5	0.0625	3	8	1.5
PM10	**270.70**	Graders	0.5	0.0625			0
PM2.5	**137.02**	Dozers	0.5	0.0625			0
		Scrapers	1	0.125			0
						Acres	1.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	89	112	159	251	489
	2	128	151	200	284	513
		109	132	180	268	501
CO	1	623	945	1914	4803	20721
	2	953	1344	2445	5658	22093
		788	1145	2180	5231	21407
PM10	1	5	14	34	75	199
	2	7	22	42	84	207
		6	18	38	80	203
PM2.5	1	3	5	9	22	94
	2	5	7	12	26	100
		4	6	11	24	97

East San Gabriel Valley

1.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	109	132	180	268	501
CO	788	1145	2180	5231	21407
PM10	6	18	38	80	203
PM2.5	4	6	11	24	97

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	1	9	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Linear, Paving

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	1.00	25	82	664	2180	68.10

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	**89**	Tractors	0.5	0.0625			0
CO	**623**	Tractors	0.5	0.0625	2	8	1
PM10	**266.98**	Graders	0.5	0.0625			0
PM2.5	**133.47**	Dozers	0.5	0.0625			0
		Scrapers	1	0.125			0
						Acres	1.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	89	112	159	251	489
	1	89	112	159	251	489
		89	112	159	251	489
CO	1	623	945	1914	4803	20721
	1	623	945	1914	4803	20721
		623	945	1914	4803	20721
PM10	1	5	14	34	75	199
	1	5	14	34	75	199
		5	14	34	75	199
PM2.5	1	3	5	9	22	94
	1	3	5	9	22	94
		3	5	9	22	94

East San Gabriel Valley

1.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	89	112	159	251	489
CO	623	945	1914	4803	20721
PM10	5	14	34	75	199
PM2.5	3	5	9	22	94

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	1	9	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Option 1 Rough Grading, Utilities Trenching, and Buildings 2 and 3 Construction 2026 | Sewer Main and Storm Drain Site Site Preparation (Private) OR Option 2 Rough Grading, Utilities Trenching, and Buildings 1 and 2 Construction 2026 | Sewer Main

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	5.00	25	82	664	2180	68.10

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	**203**	Tractors	0.5	0.0625	4	8	2
CO	**1,733**	Tractors	0.5	0.0625	4	7	1.75
PM10	**296.98**	Graders	0.5	0.0625	2	8	1
PM2.5	**160.41**	Dozers	0.5	0.0625	1	8	0.5
		Scrapers	1	0.125	3	8	3
						Acres	8.25

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	5	203	227	286	368	584
	5	203	227	286	368	584
		203	227	286	368	584
CO	5	1733	2299	3680	7600	25558
	5	1733	2299	3680	7600	25558
		1733	2299	3680	7600	25558
PM10	5	14	43	63	105	229
	5	14	43	63	105	229
		14	43	63	105	229
PM2.5	5	8	11	17	35	116
	5	8	11	17	35	116
		8	11	17	35	116

East San Gabriel Valley

5.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	203	227	286	368	584
CO	1733	2299	3680	7600	25558
PM10	14	43	63	105	229
PM2.5	8	11	17	35	116

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	5	9	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Option 1 Rough Grading, Utilities Trenching, and Buildings 2 and 3 Construction 2026 | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Private) OR Option 2 Rough Grading, Utilities Trenching, and Buildings 1 and 2 Construction 2026 | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Private)

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	5.00	25	82	664	2180	68.10

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625	4	8	2
NOx	**203**	Tractors	0.5	0.0625	3	7	1.3125
CO	**1,733**	Tractors	0.5	0.0625	2	6	0.75
PM10	**296.98**	Graders	0.5	0.0625	1	8	0.5
PM2.5	**160.41**	Dozers	0.5	0.0625	1	8	0.5
		Scrapers	1	0.125	2	8	2
						Acres	7.06

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	5	203	227	286	368	584
	5	203	227	286	368	584
		203	227	286	368	584
CO	5	1733	2299	3680	7600	25558
	5	1733	2299	3680	7600	25558
		1733	2299	3680	7600	25558
PM10	5	14	43	63	105	229
	5	14	43	63	105	229
		14	43	63	105	229
PM2.5	5	8	11	17	35	116
	5	8	11	17	35	116
		8	11	17	35	116

East San Gabriel Valley

5.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	203	227	286	368	584
CO	1733	2299	3680	7600	25558
PM10	14	43	63	105	229
PM2.5	8	11	17	35	116

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	5	9	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Option 1 Buildings 2 and 3 Construction 2026 | Sewer Main and Public Storm Drain Site Utility Trenching and Pipeline Construction (Private) OR Option 2 Buildings 1 and 2 Construction 2026 | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Private)

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	2.06	25	82	664	2180	68.10

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625	3	7	1.3125
NOx	**130**	Tractors	0.5	0.0625	2	6	0.75
CO	**969**	Tractors	0.5	0.0625			0
PM10	**274.90**	Graders	0.5	0.0625			0
PM2.5	**140.98**	Dozers	0.5	0.0625			0
		Scrapers	1	0.125			0
						Acres	2.06

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	2	128	151	200	284	513
	3	153	176	229	312	537
		130	153	202	286	514
CO	2	953	1344	2445	5658	22093
	3	1213	1662	2857	6305	23248
		969	1364	2471	5698	22165
PM10	2	7	22	42	84	207
	3	9	29	49	91	214
		7	22	42	84	207
PM2.5	2	5	7	12	26	100
	3	6	8	14	29	105
		5	7	12	26	100

East San Gabriel Valley

2.06 Acres

	25	**50**	**100**	**200**	**500**
NOx	130	153	202	286	514
CO	969	1364	2471	5698	22165
PM10	7	22	42	84	207
PM2.5	5	7	12	26	100

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	2	9	3
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Option 1 Buildings 2 and 3 Construction 2027 | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Private) OR Option 2 Buildings 1 and 2 Construction 2027 | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Private)

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	2.06	25	82	664	2180	68.10

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625	3	7	1.3125
NOx	**130**	Tractors	0.5	0.0625	2	6	0.75
CO	**969**	Tractors	0.5	0.0625			0
PM10	**274.90**	Graders	0.5	0.0625			0
PM2.5	**140.98**	Dozers	0.5	0.0625			0
		Scrapers	1	0.125			0
						Acres	2.06

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	2	128	151	200	284	513
	3	153	176	229	312	537
		130	153	202	286	514
CO	2	953	1344	2445	5658	22093
	3	1213	1662	2857	6305	23248
		969	1364	2471	5698	22165
PM10	2	7	22	42	84	207
	3	9	29	49	91	214
		7	22	42	84	207
PM2.5	2	5	7	12	26	100
	3	6	8	14	29	105
		5	7	12	26	100

East San Gabriel Valley

2.06 Acres

	25	**50**	**100**	**200**	**500**
NOx	130	153	202	286	514
CO	969	1364	2471	5698	22165
PM10	7	22	42	84	207
PM2.5	5	7	12	26	100

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	2	9	3
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Option 1 Buildings 2 and 3 Construction, Paving, and Architectural Coating | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Private) OR Option 2 Buildings 1 and 2 Construction 2027, Paving, and Architectural Coating | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Private)

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	2.06	25	82	664	2180	68.10

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625	3	7	1.3125
NOx	**130**	Tractors	0.5	0.0625	2	6	0.75
CO	**969**	Tractors	0.5	0.0625			0
PM10	**274.90**	Graders	0.5	0.0625			0
PM2.5	**140.98**	Dozers	0.5	0.0625			0
		Scrapers	1	0.125			0
						Acres	2.06

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	2	128	151	200	284	513
	3	153	176	229	312	537
		130	153	202	286	514
CO	2	953	1344	2445	5658	22093
	3	1213	1662	2857	6305	23248
		969	1364	2471	5698	22165
PM10	2	7	22	42	84	207
	3	9	29	49	91	214
		7	22	42	84	207
PM2.5	2	5	7	12	26	100
	3	6	8	14	29	105
		5	7	12	26	100

East San Gabriel Valley

2.06 Acres

	25	**50**	**100**	**200**	**500**
NOx	130	153	202	286	514
CO	969	1364	2471	5698	22165
PM10	7	22	42	84	207
PM2.5	5	7	12	26	100

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	2	9	3
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Option 1 Buildings 2 and 3 Construction, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Private) OR Option 2 Buildings 1 and 2 Construction 2027, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping | Sewer Main and Storm Drain Site Utility Trenching and Pipeline Construction (Private)

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	5.00	25	82	664	2180	68.10

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625	4	8	2
NOx	**203**	Tractors	0.5	0.0625	3	7	1.3125
CO	**1,733**	Tractors	0.5	0.0625	2	6	0.75
PM10	**296.98**	Graders	0.5	0.0625	1	8	0.5
PM2.5	**160.41**	Dozers	0.5	0.0625	1	8	0.5
		Scrapers	1	0.125	2	8	2
						Acres	7.06

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	5	203	227	286	368	584
	5	203	227	286	368	584
		203	227	286	368	584
CO	5	1733	2299	3680	7600	25558
	5	1733	2299	3680	7600	25558
		1733	2299	3680	7600	25558
PM10	5	14	43	63	105	229
	5	14	43	63	105	229
		14	43	63	105	229
PM2.5	5	8	11	17	35	116
	5	8	11	17	35	116
		8	11	17	35	116

East San Gabriel Valley

5.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	203	227	286	368	584
CO	1733	2299	3680	7600	25558
PM10	14	43	63	105	229
PM2.5	8	11	17	35	116

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	5	9	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Option 1 Buildings 2 and 3 Construction, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping | Sewer Main and Storm Drain Site Utility Trenching, Pipeline Construction, and Paving (Private) OR Option 2 Buildings 1 and 2 Construction 2027, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping | Sewer Main and Storm Drain Site Utility Trenching, Pipeline Construction, and Paving (Private)

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	5.00	25	82	664	2180	68.10

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625	5	8	2.5
NOx	**203**	Tractors	0.5	0.0625	3	7	1.3125
CO	**1,733**	Tractors	0.5	0.0625	2	6	0.75
PM10	**296.98**	Graders	0.5	0.0625	1	8	0.5
PM2.5	**160.41**	Dozers	0.5	0.0625	1	8	0.5
		Scrapers	1	0.125	2	8	2
						Acres	7.56

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	5	203	227	286	368	584
	5	203	227	286	368	584
		203	227	286	368	584
CO	5	1733	2299	3680	7600	25558
	5	1733	2299	3680	7600	25558
		1733	2299	3680	7600	25558
PM10	5	14	43	63	105	229
	5	14	43	63	105	229
		14	43	63	105	229
PM2.5	5	8	11	17	35	116
	5	8	11	17	35	116
		8	11	17	35	116

East San Gabriel Valley

5.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	203	227	286	368	584
CO	1733	2299	3680	7600	25558
PM10	14	43	63	105	229
PM2.5	8	11	17	35	116

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	5	9	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Option 1 Buildings 2 and 3 Construction, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping | Sewer Main and Storm Drain Site Paving (Private) OR Option 2 Buildings 1 and 2 Construction 2027, Paving, Architectural Coating, Fine Grading, and Finishing/Landscaping | Sewer Main and Storm Drain Site Paving (Private)

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	5.00	25	82	664	2180	68.10

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625	5	8	2.5
NOx	**203**	Tractors	0.5	0.0625	3	7	1.3125
CO	**1,733**	Tractors	0.5	0.0625			0
PM10	**296.98**	Graders	0.5	0.0625	1	8	0.5
PM2.5	**160.41**	Dozers	0.5	0.0625	1	8	0.5
		Scrapers	1	0.125	2	8	2
						Acres	6.81

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	5	203	227	286	368	584
	5	203	227	286	368	584
		203	227	286	368	584
CO	5	1733	2299	3680	7600	25558
	5	1733	2299	3680	7600	25558
		1733	2299	3680	7600	25558
PM10	5	14	43	63	105	229
	5	14	43	63	105	229
		14	43	63	105	229
PM2.5	5	8	11	17	35	116
	5	8	11	17	35	116
		8	11	17	35	116

East San Gabriel Valley

5.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	203	227	286	368	584
CO	1733	2299	3680	7600	25558
PM10	14	43	63	105	229
PM2.5	8	11	17	35	116

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	5	9	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Sewer Main and Public Storm Drain Site Paving (Private)

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	0.50	25	82	664	2180	68.10

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625	1	8	0.5
NOx	**89**	Tractors	0.5	0.0625			0
CO	**623**	Tractors	0.5	0.0625			0
PM10	**266.98**	Graders	0.5	0.0625			0
PM2.5	**133.47**	Dozers	0.5	0.0625			0
		Scrapers	1	0.125			0
						Acres	0.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	89	112	159	251	489
	1	89	112	159	251	489
		89	112	159	251	489
CO	1	623	945	1914	4803	20721
	1	623	945	1914	4803	20721
		623	945	1914	4803	20721
PM10	1	5	14	34	75	199
	1	5	14	34	75	199
		5	14	34	75	199
PM2.5	1	3	5	9	22	94
	1	3	5	9	22	94
		3	5	9	22	94

East San Gabriel Valley

0.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	89	112	159	251	489
CO	623	945	1914	4803	20721
PM10	5	14	34	75	199
PM2.5	3	5	9	22	94

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	1	9	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Option 1 Operation Localized Significance Thresholds - Sensitive Receptor: Residential

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
9	68	25	82

Source Receptor Area **East San Gabriel Valley**
Distance (meters) 25
NOx **203**
CO **1,733**
PM10 **4.00**
PM2.5 **2.00**

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	5	203	227	286	368	584
	5	203	227	286	368	584
		203	227	286	368	584
CO	5	1733	2299	3680	7600	25558
	5	1733	2299	3680	7600	25558
		1733	2299	3680	7600	25558
PM10	5	4	11	16	26	55
	5	4	11	16	26	55
		4	11	16	26	55
PM2.5	5	2	3	5	9	28
	5	2	3	5	9	28
		2	3	5	9	28

East San Gabriel Valley
68.10 Acres

	25	**50**	**100**	**200**	**500**
NOx	203	227	286	368	584
CO	1733	2299	3680	7600	25558
PM10	4	11	16	26	55
PM2.5	2	3	5	9	28

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	5	9	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2010 - Table C-1. 2006 – 2008

Option 1 Operation Localized Significance Thresholds - Sensitive Receptor: Residential

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
9	68	664	2180

Source Receptor Area **East San Gabriel Valley**
Distance (meters) 664

NOx	**702**
CO	**35,403**
PM10	**70.90**
PM2.5	**38.42**

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	5	203	227	286	368	584
	5	203	227	286	368	584
		203	227	286	368	584
CO	5	1733	2299	3680	7600	25558
	5	1733	2299	3680	7600	25558
		1733	2299	3680	7600	25558
PM10	5	4	11	16	26	55
	5	4	11	16	26	55
		4	11	16	26	55
PM2.5	5	2	3	5	9	28
	5	2	3	5	9	28
		2	3	5	9	28

East San Gabriel Valley
68.10 Acres

	25	**50**	**100**	**200**	**500**
NOx	203	227	286	368	584
CO	1733	2299	3680	7600	25558
PM10	4	11	16	26	55
PM2.5	2	3	5	9	28

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	5	9	5
Distance Increment Below			
500			
Distance Increment Above			
500			

Updated: 10/21/2010 - Table C-1. 2006 – 2008

Option 2 Operation Localized Significance Thresholds - Sensitive Receptor: Residential

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
9	68	25	82

Source Receptor Area **East San Gabriel Valley**
Distance (meters) 25

NOx	**203**
CO	**1,733**
PM10	**4.00**
PM2.5	**2.00**

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	5	203	227	286	368	584
	5	203	227	286	368	584
		203	227	286	368	584
CO	5	1733	2299	3680	7600	25558
	5	1733	2299	3680	7600	25558
		1733	2299	3680	7600	25558
PM10	5	4	11	16	26	55
	5	4	11	16	26	55
		4	11	16	26	55
PM2.5	5	2	3	5	9	28
	5	2	3	5	9	28
		2	3	5	9	28

East San Gabriel Valley
68.10 Acres

	25	**50**	**100**	**200**	**500**
NOx	203	227	286	368	584
CO	1733	2299	3680	7600	25558
PM10	4	11	16	26	55
PM2.5	2	3	5	9	28

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	5	9	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2010 - Table C-1. 2006 – 2008

Option 1 Operation Localized Significance Thresholds - Sensitive Receptor: Residential

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
9	68	664	2180

Source Receptor Area **East San Gabriel Valley**
Distance (meters) 664

NOx	**702**
CO	**35,403**
PM10	**70.90**
PM2.5	**38.42**

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	5	203	227	286	368	584
	5	203	227	286	368	584
		203	227	286	368	584
CO	5	1733	2299	3680	7600	25558
	5	1733	2299	3680	7600	25558
		1733	2299	3680	7600	25558
PM10	5	4	11	16	26	55
	5	4	11	16	26	55
		4	11	16	26	55
PM2.5	5	2	3	5	9	28
	5	2	3	5	9	28
		2	3	5	9	28

East San Gabriel Valley
68.10 Acres

	25	**50**	**100**	**200**	**500**
NOx	203	227	286	368	584
CO	1733	2299	3680	7600	25558
PM10	4	11	16	26	55
PM2.5	2	3	5	9	28

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	5	9	5
Distance Increment Below			
500			
Distance Increment Above			
500			

Updated: 10/21/2010 - Table C-1. 2006 – 2008