

**Table 7**

**Construction-Related Criteria Pollutant Emissions Prior to Mitigation**

Activity	Pollutant Emissions (pounds/day)					
	ROG	Nox	CO	SO2	PM10	PM2.5
<b>Grading Unmitigated</b>						
On-Site	6.63	77.84	37.98	0.09	8.18	4.96
Off-Site	0.82	20.91	6.23	0.06	1.37	0.43
<b>Total</b>	<b>7.45</b>	<b>98.75</b>	<b>44.21</b>	<b>0.15</b>	<b>9.55</b>	<b>5.39</b>
<b>Grading Mitigated with Tier 4 Final Off-Road Equipment</b>						
On-Site	1.19	6.04	41.19	0.09	5.23	2.25
Off-Site	0.82	20.91	6.23	0.06	1.37	0.43
<b>Total</b>	<b>2.01</b>	<b>26.95</b>	<b>47.42</b>	<b>0.15</b>	<b>6.60</b>	<b>2.68</b>
<b>Grading Mitigated with all Off-Road Equipment operating for 4 hours per day or less</b>						
On-Site	4.42	51.89	25.32	0.06	4.35	2.86
Off-Site	0.60	13.98	4.62	0.04	1.02	0.32
<b>Total</b>	<b>5.02</b>	<b>65.87</b>	<b>29.94</b>	<b>0.10</b>	<b>5.37</b>	<b>3.18</b>
<b>Grading - Mitigated with 2010 or newer haul trucks</b>						
On-Site	6.63	77.84	37.98	0.09	8.18	4.96
Off-Site from CalEEMod	0.18	0.13	1.53	0.00	0.31	0.09
Off-Site Haul Trucks (EMF)	0.19	9.60	0.93	0.04	0.38	0.18
<b>Total</b>	<b>7.00</b>	<b>87.57</b>	<b>40.44</b>	<b>0.13</b>	<b>8.87</b>	<b>5.23</b>

**Table 9**

**Local Construction Emissions at the School to the Southeast<sup>1</sup>**

Phase	On-Site Pollutant Emissions (pounds/day)			
	NOx	CO	PM10	PM2.5
Grading Unmitigated	77.84	37.98	8.18	4.96
Grading Mitigated with Tier 4 Final Off-Road Equipment	6.04	41.19	5.23	2.25
Grading Mitigated with all Off-Road Equipment operating for 4 ho	51.89	25.32	4.35	2.86
Grading - Mitigated with 2010 or newer haul trucks	77.84	37.98	8.18	4.96
<b>SCAQMD Threshold for 25 meters (82 feet)<sup>2</sup></b>	<b>123</b>	<b>1,530</b>	<b>14</b>	<b>8</b>
Exceeds Threshold?	no	no	no	no

<sup>1</sup> Source: Calculated from CalEEMod and SCAQMD's Mass Rate Look-up Tables for five acres in Southwest San Bernardino Valley.

<sup>2</sup> The estimated distance from the proposed grading activities to the existing homes north of the project site is 213 meters or 700 feet.

EMFAC2017 (v1.0.2) Emission Rates

Region Type: Sub-Area

Region: Los Angeles (SC)

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HT:

Region	Calendar Year	Vehicle Cat	Model Year	Speed	Fuel	Population	VMT	Trips
Los Angeles	2020	HHDT	2010	Aggregate	DSL	2414.457	270680.3	23026.56
Los Angeles	2020	HHDT	2011	Aggregate	DSL	2937.943	326348.9	27801.24
Los Angeles	2020	HHDT	2012	Aggregate	DSL	7462.78	600766.1	71751.02
Los Angeles	2020	HHDT	2013	Aggregate	DSL	3791.458	468589	39464.97
Los Angeles	2020	HHDT	2014	Aggregate	DSL	3844.881	531112.8	41971.94
Los Angeles	2020	HHDT	2015	Aggregate	DSL	4432.769	703904.6	51363.32
Los Angeles	2020	HHDT	2016	Aggregate	DSL	6069.926	1077660	72577.64
Los Angeles	2020	HHDT	2017	Aggregate	DSL	2693.838	369705	24496.21
Los Angeles	2020	HHDT	2018	Aggregate	DSL	2005.235	350416.4	21435.94
Los Angeles	2020	HHDT	2019	Aggregate	DSL	2032.739	360133.4	21548.36
Los Angeles	2020	HHDT	2020	Aggregate	DSL	1378.287	234078.6	14108.56

Average

SK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN

ROG_RUNE	ROG_IDLEX	ROG_STRE	ROG_HOTS	ROG_RUNL	ROG_RESTI	ROG_DIUR	TOG_RUNE	TOG_IDLEX
0.38673	3.905112	0	0	0	0	0	0.440262	4.445672
0.132597	3.818588	0	0	0	0	0	0.150952	4.347172
0.023163	3.283722	0	0	0	0	0	0.02637	3.738267
0.022388	4.524914	0	0	0	0	0	0.025487	5.15127
0.018601	5.180924	0	0	0	0	0	0.021176	5.898087
0.017057	6.125237	0	0	0	0	0	0.019418	6.973116
0.016242	7.015815	0	0	0	0	0	0.018491	7.986972
0.015387	5.061957	0	0	0	0	0	0.017517	5.762653
0.014629	6.247675	0	0	0	0	0	0.016655	7.112502
0.013713	6.310084	0	0	0	0	0	0.015611	7.18355
0.012781	5.826958	0	0	0	0	0	0.01455	6.633548

0.061208

TOG_STRE	TOG_HOTS	TOG_RUNL	TOG_RESTI	TOG_DIURI	CO_RUNEX	CO_IDLEX	CO_STREX	NOx_RUNE
0	0	0	0	0	1.034625	21.8662	0	8.328735
0	0	0	0	0	0.482716	48.88569	0	4.906739
0	0	0	0	0	0.267454	48.51968	0	3.833634
0	0	0	0	0	0.258295	66.85931	0	3.601134
0	0	0	0	0	0.211159	76.55239	0	2.480951
0	0	0	0	0	0.190991	90.5054	0	2.128406
0	0	0	0	0	0.181241	103.6644	0	1.983241
0	0	0	0	0	0.17385	74.79456	0	1.806097
0	0	0	0	0	0.165504	92.31452	0	1.664838
0	0	0	0	0	0.155105	93.23666	0	1.496307
0	0	0	0	0	0.144874	86.09808	0	1.323647
					0.296931			3.050339

NOx_IDLEX	NOx_STRE	CO2_RUNE	CO2_IDLEX	CO2_STRE	CH4_RUNE	CH4_IDLEX	CH4_STRE	PM10_RUNEX
70.11591	0.306672	1847.037	12578.62	0	0.017963	0.181382	0	0.062089093
51.28253	1.789409	1726.733	11100.92	0	0.006159	0.177364	0	0.048172203
38.80353	2.722866	1661.949	9263.474	0	0.001076	0.15252	0	0.026232043
53.47062	2.331946	1643.539	12764.91	0	0.00104	0.210171	0	0.024924249
61.22265	2.411748	1355.44	12720.84	0	0.000864	0.24064	0	0.018868948
72.38154	2.391678	1323.683	15039.43	0	0.000792	0.284501	0	0.016761295
82.90545	2.40564	1320.984	17226.09	0	0.000754	0.325866	0	0.015273833
59.81683	2.661134	1293.45	12071.18	0	0.000715	0.235115	0	0.012881976
73.82838	2.466669	1262.794	14898.74	0	0.00068	0.290188	0	0.011296856
74.56586	2.479813	1262.358	15047.56	0	0.000637	0.293087	0	0.00945773
68.85679	2.521186	1265.123	13895.46	0	0.000594	0.270647	0	0.007503974
		1451.19			0.002843			0.023042018

PM10_IDLE	PM10_STR	PM10_PMTW	PM10_PMBW	PM2_5_RUNEX	PM2_5_IDLEX	PM2_5_STI
0.016878	0	0.035792462	0.061384073	0.059403146	0.016148266	0
0.016306	0	0.035695779	0.06121826	0.046088295	0.015600325	0
0.013975	0	0.035357011	0.060637275	0.025097257	0.013370393	0
0.019257	0	0.035619265	0.061087039	0.023846037	0.018424179	0
0.022049	0	0.035628954	0.061103656	0.018052686	0.021095266	0
0.026068	0	0.035725578	0.061269366	0.016036209	0.024940246	0
0.029858	0	0.03574097	0.061295764	0.014613094	0.02856643	0
0.021543	0	0.035690323	0.061208904	0.012324708	0.020610867	0
0.026589	0	0.035671567	0.061176738	0.010808159	0.025438777	0
0.026855	0	0.035671861	0.061177242	0.009048593	0.025692887	0
0.024799	0	0.035615839	0.061081163	0.007179356	0.023725735	0
		0.035655419	0.061149044	0.022045231		

PM2_5_PMTW	PM2_5_PMBW	SOx_RUNEX	SOx_IDLEX	SOx_STREX	N2O_RUNE	N2O_IDLEX	N2O_STREX
0.008948116	0.02630746	0.017449886	0.118837	0	0.290328	1.977184	0
0.008923945	0.026236397	0.016313315	0.104876	0	0.271418	1.74491	0
0.008839253	0.025987403	0.015701266	0.087517	0	0.261235	1.456089	0
0.008904816	0.02618016	0.015527345	0.120597	0	0.258342	2.006467	0
0.008907238	0.026187281	0.012805528	0.12018	0	0.213056	1.999538	0
0.008931394	0.0262583	0.012505505	0.142085	0	0.208065	2.363989	0
0.008935243	0.026269613	0.012480002	0.162744	0	0.20764	2.707701	0
0.008922581	0.026232387	0.012219871	0.114042	0	0.203312	1.897421	0
0.008917892	0.026218602	0.011930249	0.140756	0	0.198494	2.341874	0
0.008917965	0.026218818	0.011926132	0.142162	0	0.198425	2.365268	0
0.00890396	0.026177641	0.011952254	0.131277	0	0.19886	2.184173	0
0.008913855	0.026206733	0.013710123					



