

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: P:\300.Environmental\6714 Carlsbad GP Update EIR\DUDEK WORK PRODUCTS\DOCUMENTS\Final EIR and RTCs\Revised AQ Analysis and MH Comments\Cbad GP EIR From HD\Emission Calcs\Construction Emissions\Cbad Construction Emissions.urb924

Project Name: Carlsbad GP Update

Project Location: California State-wide

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>
2015 TOTALS (lbs/day unmitigated)	8.87	92.89	44.15	0.14	323.21	3.69	324.81	67.50	3.40	68.97
2015 TOTALS (lbs/day mitigated)	8.87	92.89	44.15	0.14	182.78	3.69	184.38	38.17	3.40	39.64
2016 TOTALS (lbs/day unmitigated)	246.94	30.44	73.40	0.12	0.53	1.59	2.12	0.19	1.44	1.62
2016 TOTALS (lbs/day mitigated)	222.76	30.44	73.40	0.12	0.53	1.59	2.12	0.19	1.44	1.62

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Winter Pounds Per Day, Mitigated

<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>
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Time Slice 8/3/2015-10/2/2015 Active Days: 45	<u>8.87</u>	<u>92.89</u>	<u>44.15</u>	<u>0.14</u>	113.63	<u>3.69</u>	117.33	23.70	<u>3.40</u>	27.10
Demolition 08/03/2015-10/02/2015	8.87	92.89	44.15	0.14	113.63	3.69	117.33	23.70	3.40	27.10
Fugitive Dust	0.00	0.00	0.00	0.00	113.10	0.00	113.10	23.53	0.00	23.53
Demo Off Road Diesel	4.27	33.33	21.45	0.00	0.00	1.50	1.50	0.00	1.38	1.38
Demo On Road Diesel	4.57	59.51	21.77	0.14	0.53	2.19	2.72	0.17	2.02	2.19
Demo Worker Trips	0.03	0.05	0.93	0.00	0.01	0.00	0.01	0.00	0.00	0.01
Time Slice 10/5/2015-11/30/2015 Active Days: 41	4.09	30.45	22.04	0.00	<u>182.78</u>	1.60	<u>184.38</u>	<u>38.17</u>	1.47	<u>39.64</u>
Mass Grading 10/03/2015-11/30/2015	4.09	30.45	22.04	0.00	182.78	1.60	184.38	38.17	1.47	39.64
Mass Grading Dust	0.00	0.00	0.00	0.00	182.77	0.00	182.77	38.17	0.00	38.17
Mass Grading Off Road Diesel	4.05	30.38	20.73	0.00	0.00	1.59	1.59	0.00	1.47	1.47
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.04	0.07	1.31	0.00	0.01	0.00	0.01	0.00	0.00	0.01
Time Slice 12/1/2015-12/31/2015 Active Days: 23	4.09	30.45	22.04	0.00	<u>182.78</u>	1.60	<u>184.38</u>	<u>38.17</u>	1.47	<u>39.64</u>
Fine Grading 12/01/2015-12/31/2015	4.09	30.45	22.04	0.00	182.78	1.60	184.38	38.17	1.47	39.64
Fine Grading Dust	0.00	0.00	0.00	0.00	182.77	0.00	182.77	38.17	0.00	38.17
Fine Grading Off Road Diesel	4.05	30.38	20.73	0.00	0.00	1.59	1.59	0.00	1.47	1.47
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.04	0.07	1.31	0.00	0.01	0.00	0.01	0.00	0.00	0.01
Time Slice 1/1/2016-2/1/2016 Active Days: 22	1.41	10.38	8.52	0.00	0.00	0.47	0.47	0.00	0.43	0.43
Trenching 01/01/2016-02/01/2016	1.41	10.38	8.52	0.00	0.00	0.47	0.47	0.00	0.43	0.43
Trenching Off Road Diesel	1.39	10.35	7.83	0.00	0.00	0.47	0.47	0.00	0.43	0.43
Trenching Worker Trips	0.02	0.04	0.69	0.00	0.00	0.00	0.01	0.00	0.00	0.00

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Time Slice 2/2/2016-4/1/2016 Active Days: 44	5.06	30.34	71.45	0.11	0.51	1.58	2.09	0.18	1.43	1.61
Building 02/02/2016-06/01/2016	5.06	30.34	71.45	0.11	0.51	1.58	2.09	0.18	1.43	1.61
Building Off Road Diesel	2.47	14.84	12.61	0.00	0.00	0.88	0.88	0.00	0.81	0.81
Building Vendor Trips	1.22	13.14	12.63	0.05	0.18	0.52	0.70	0.06	0.48	0.54
Building Worker Trips	1.38	2.37	46.21	0.07	0.33	0.18	0.52	0.12	0.15	0.27
Time Slice 4/4/2016-6/1/2016 Active Days: 43	<u>222.76</u>	<u>30.44</u>	<u>73.40</u>	<u>0.12</u>	<u>0.53</u>	<u>1.59</u>	<u>2.12</u>	<u>0.19</u>	<u>1.44</u>	<u>1.62</u>
Building 02/02/2016-06/01/2016	5.06	30.34	71.45	0.11	0.51	1.58	2.09	0.18	1.43	1.61
Building Off Road Diesel	2.47	14.84	12.61	0.00	0.00	0.88	0.88	0.00	0.81	0.81
Building Vendor Trips	1.22	13.14	12.63	0.05	0.18	0.52	0.70	0.06	0.48	0.54
Building Worker Trips	1.38	2.37	46.21	0.07	0.33	0.18	0.52	0.12	0.15	0.27
Coating 04/02/2016-08/02/2016	217.70	0.10	1.95	0.00	0.01	0.01	0.02	0.01	0.01	0.01
Architectural Coating	217.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.06	0.10	1.95	0.00	0.01	0.01	0.02	0.01	0.01	0.01
Time Slice 6/2/2016-7/1/2016 Active Days: 22	221.87	15.43	12.83	0.01	0.05	1.14	1.19	0.02	1.05	1.06
Asphalt 06/02/2016-07/01/2016	4.17	15.33	10.87	0.01	0.04	1.13	1.17	0.01	1.04	1.05
Paving Off-Gas	1.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.98	12.24	8.87	0.00	0.00	1.02	1.02	0.00	0.93	0.93
Paving On Road Diesel	0.24	3.05	1.14	0.01	0.03	0.11	0.14	0.01	0.10	0.11
Paving Worker Trips	0.03	0.04	0.87	0.00	0.01	0.00	0.01	0.00	0.00	0.01
Coating 04/02/2016-08/02/2016	217.70	0.10	1.95	0.00	0.01	0.01	0.02	0.01	0.01	0.01
Architectural Coating	217.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.06	0.10	1.95	0.00	0.01	0.01	0.02	0.01	0.01	0.01

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Time Slice 7/4/2016-8/2/2016 Active Days: 22	217.70	0.10	1.95	0.00	0.01	0.01	0.02	0.01	0.01	0.01
Coating 04/02/2016-08/02/2016	217.70	0.10	1.95	0.00	0.01	0.01	0.02	0.01	0.01	0.01
Architectural Coating	217.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.06	0.10	1.95	0.00	0.01	0.01	0.02	0.01	0.01	0.01

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 12/1/2015 - 12/31/2015 - Fine Site Grading
 For Soil Stabilizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:
 PM10: 55% PM25: 55%

The following mitigation measures apply to Phase: Mass Grading 10/3/2015 - 11/30/2015 - Grading
 For Soil Stabilizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:
 PM10: 55% PM25: 55%

The following mitigation measures apply to Phase: Architectural Coating 4/2/2016 - 8/2/2016 - Coating
 For Residential Architectural Coating Measures, the Residential Exterior: Use Low VOC Coatings mitigation reduces emissions by:
 ROG: 10%

For Residential Architectural Coating Measures, the Residential Interior: Use Low VOC Coatings mitigation reduces emissions by:
 ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Exterior: Use Low VOC Coatings mitigation reduces emissions by:
 ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Interior: Use Low VOC Coatings mitigation reduces emissions by:
 ROG: 10%