



Combined Summer Emissions Reports (Pounds/Day)

File Name: Z:\Air Quality\1067.01 Broadway Lofts\Emissions\Broadway Lofts Construction - Project.urb924

Project Name: Broadway Lofts - Construction

Project Location: South Coast AQMD

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>
2010 TOTALS (lbs/day unmitigated)	8.19	85.32	36.47	0.06	41.52	3.89	44.28	8.66	3.58	11.19
2010 TOTALS (lbs/day mitigated)	8.19	85.32	36.47	0.06	41.52	3.89	44.28	8.66	3.58	11.19
2011 TOTALS (lbs/day unmitigated)	7.60	77.43	52.76	0.06	27.36	3.55	30.91	5.74	3.26	9.00
2011 TOTALS (lbs/day mitigated)	7.60	77.43	52.76	0.06	5.02	3.55	8.57	1.07	3.26	4.34
2012 TOTALS (lbs/day unmitigated)	22.26	37.33	40.95	0.03	0.14	2.71	2.85	0.05	2.48	2.53
2012 TOTALS (lbs/day mitigated)	22.26	37.33	40.95	0.03	0.14	2.71	2.85	0.05	2.48	2.53

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

	<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>
Time Slice 11/1/2010-11/30/2010	5.11	53.79	24.12	0.06	41.52	2.75	44.28	8.66	2.53	11.19
Active Dvs: 22										
Demolition 11/01/2010-11/30/2010	5.11	53.79	24.12	0.06	41.52	2.75	44.28	8.66	2.53	11.19
Fugitive Dust	0.00	0.00	0.00	0.00	41.33	0.00	41.33	8.60	0.00	8.60
Demo Off Road Diesel	1.82	11.17	6.90	0.00	0.00	1.01	1.01	0.00	0.93	0.93
Demo On Road Diesel	3.27	42.56	16.34	0.05	0.19	1.74	1.94	0.06	1.60	1.67
Demo Worker Trips	0.03	0.05	0.88	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Time Slice 12/1/2010-12/31/2010	8.19	85.32	36.47	0.06	27.36	3.89	31.26	5.74	3.58	9.32
Active Dvs: 23										
Mass Grading 12/01/2010-01/31/2011	8.19	85.32	36.47	0.06	27.36	3.89	31.26	5.74	3.58	9.32
Mass Grading Dust	0.00	0.00	0.00	0.00	27.16	0.00	27.16	5.67	0.00	5.67
Mass Grading Off Road Diesel	4.83	42.28	18.00	0.00	0.00	2.13	2.13	0.00	1.96	1.96
Mass Grading On Road Diesel	3.29	42.92	16.48	0.05	0.19	1.76	1.95	0.06	1.62	1.68
Mass Grading Worker Trips	0.07	0.12	1.98	0.00	0.01	0.01	0.02	0.00	0.01	0.01



Phase Assumptions

Phase: Demolition 11/1/2010 - 11/30/2010 - Default Demolition Description

Building Volume Total (cubic feet): 2161701

Building Volume Daily (cubic feet): 98397.69

On Road Truck Travel (VMT): 1366.63

Off-Road Equipment:

1 Air Compressors (106 hp) operating at a 0.48 load factor for 8 hours per day

3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 6 hours per day

Phase: Mass Grading 12/1/2010 - 1/31/2011 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 0.8

Maximum Daily Acreage Disturbed: 0.8

Fugitive Dust Level of Detail: High

Onsite Haulage: 125.35 ton-miles/day; Offsite haulage: 0 ton-mils/day

On Road Truck Travel (VMT): 1378.12

Off-Road Equipment:

1 Air Compressors (106 hp) operating at a 0.48 load factor for 8 hours per day

1 Bore/Drill Rigs (291 hp) operating at a 0.75 load factor for 8 hours per day

1 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 8 hours per day

1 Cranes (399 hp) operating at a 0.43 load factor for 8 hours per day

1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day

1 Other Equipment (190 hp) operating at a 0.62 load factor for 8 hours per day

2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Paving 3/1/2012 - 8/31/2012 - Default Paving Description

Acres to be Paved: 0.2

Off-Road Equipment:

4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day

1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day

1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

Phase: Building Construction 9/1/2011 - 8/31/2012 - Building Construction (Latter)

Off-Road Equipment:

2 Air Compressors (106 hp) operating at a 0.48 load factor for 8 hours per day

2 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 8 hours per day

1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day

1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day

2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day

1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day

1 Pumps (53 hp) operating at a 0.74 load factor for 8 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

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Phase: Building Construction 2/1/2011 - 8/31/2011 - Building Construction (Initial)

Off-Road Equipment:

- 2 Air Compressors (106 hp) operating at a 0.48 load factor for 8 hours per day
- 2 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 8 hours per day
- 1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day
- 1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 1 Pumps (53 hp) operating at a 0.74 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Architectural Coating 3/1/2012 - 8/31/2012 - Default Architectural Coating Description

- Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100
- Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50
- Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250
- Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100
- Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250
- Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer 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>
Time Slice 11/1/2010-11/30/2010	5.11	53.79	24.12	0.06	<u>41.52</u>	2.75	<u>44.28</u>	<u>8.66</u>	2.53	<u>11.19</u>
Active Days: 22										
Demolition 11/01/2010-11/30/2010	5.11	53.79	24.12	0.06	41.52	2.75	44.28	8.66	2.53	11.19
Fugitive Dust	0.00	0.00	0.00	0.00	41.33	0.00	41.33	8.60	0.00	8.60
Demo Off Road Diesel	1.82	11.17	6.90	0.00	0.00	1.01	1.01	0.00	0.93	0.93
Demo On Road Diesel	3.27	42.56	16.34	0.05	0.19	1.74	1.94	0.06	1.60	1.67
Demo Worker Trips	0.03	0.05	0.88	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Time Slice 12/1/2010-12/31/2010	<u>8.19</u>	<u>85.32</u>	<u>36.47</u>	<u>0.06</u>	5.02	<u>3.89</u>	8.92	1.07	<u>3.58</u>	4.66
Active Days: 23										
Mass Grading 12/01/2010-01/31/2011	8.19	85.32	36.47	0.06	5.02	3.89	8.92	1.07	3.58	4.66
Mass Grading Dust	0.00	0.00	0.00	0.00	4.82	0.00	4.82	1.01	0.00	1.01
Mass Grading Off Road Diesel	4.83	42.28	18.00	0.00	0.00	2.13	2.13	0.00	1.96	1.96
Mass Grading On Road Diesel	3.29	42.92	16.48	0.05	0.19	1.76	1.95	0.06	1.62	1.68
Mass Grading Worker Trips	0.07	0.12	1.98	0.00	0.01	0.01	0.02	0.00	0.01	0.01
Time Slice 1/3/2011-1/31/2011 Active	<u>7.60</u>	<u>77.43</u>	34.25	<u>0.06</u>	<u>5.02</u>	<u>3.55</u>	<u>8.57</u>	<u>1.07</u>	<u>3.26</u>	<u>4.34</u>
Days: 21										
Mass Grading 12/01/2010-01/31/2011	7.60	77.43	34.25	0.06	5.02	3.55	8.57	1.07	3.26	4.34
Mass Grading Dust	0.00	0.00	0.00	0.00	4.82	0.00	4.82	1.01	0.00	1.01
Mass Grading Off Road Diesel	4.50	38.70	17.55	0.00	0.00	1.99	1.99	0.00	1.83	1.83
Mass Grading On Road Diesel	3.03	38.62	14.86	0.05	0.19	1.55	1.75	0.06	1.43	1.49
Mass Grading Worker Trips	0.06	0.11	1.85	0.00	0.01	0.01	0.02	0.00	0.01	0.01

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Time Slice 2/1/2011-8/31/2011 Active	5.40	29.61	<u>52.76</u>	0.05	0.24	2.01	2.24	0.08	1.83	1.92
Days: 152										
Building 02/01/2011-08/31/2011	5.40	29.61	52.76	0.05	0.24	2.01	2.24	0.08	1.83	1.92
Building Off Road Diesel	3.81	22.83	13.70	0.00	0.00	1.69	1.69	0.00	1.56	1.56
Building Vendor Trips	0.43	4.76	3.84	0.01	0.03	0.20	0.23	0.01	0.18	0.19
Building Worker Trips	1.16	2.02	35.22	0.05	0.20	0.12	0.32	0.07	0.10	0.17
Time Slice 9/1/2011-12/30/2011 Active	4.78	28.54	34.04	0.03	0.13	1.94	2.07	0.05	1.78	1.83
Days: 87										
Building 09/01/2011-08/31/2012	4.78	28.54	34.04	0.03	0.13	1.94	2.07	0.05	1.78	1.83
Building Off Road Diesel	3.81	22.83	13.70	0.00	0.00	1.69	1.69	0.00	1.56	1.56
Building Vendor Trips	0.43	4.76	3.84	0.01	0.03	0.20	0.23	0.01	0.18	0.19
Building Worker Trips	0.54	0.94	16.49	0.02	0.09	0.06	0.15	0.03	0.05	0.08
Time Slice 1/2/2012-2/29/2012 Active	4.42	26.58	32.31	0.03	0.13	1.79	1.92	0.05	1.64	1.69
Days: 43										
Building 09/01/2011-08/31/2012	4.42	26.58	32.31	0.03	0.13	1.79	1.92	0.05	1.64	1.69
Building Off Road Diesel	3.53	21.47	13.41	0.00	0.00	1.56	1.56	0.00	1.44	1.44
Building Vendor Trips	0.39	4.25	3.55	0.01	0.03	0.17	0.21	0.01	0.16	0.17
Building Worker Trips	0.50	0.87	15.34	0.02	0.09	0.06	0.15	0.03	0.05	0.08
Time Slice 3/1/2012-8/31/2012 Active	<u>22.26</u>	<u>37.33</u>	<u>40.95</u>	<u>0.03</u>	<u>0.14</u>	<u>2.71</u>	<u>2.85</u>	<u>0.05</u>	<u>2.48</u>	<u>2.53</u>
Days: 132										
Asphalt 03/01/2012-08/31/2012	1.77	10.72	8.18	0.00	0.01	0.92	0.92	0.00	0.84	0.84
Paving Off-Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.72	10.64	6.84	0.00	0.00	0.91	0.91	0.00	0.84	0.84
Paving On Road Diesel	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Worker Trips	0.04	0.08	1.34	0.00	0.01	0.00	0.01	0.00	0.00	0.01
Building 09/01/2011-08/31/2012	4.42	26.58	32.31	0.03	0.13	1.79	1.92	0.05	1.64	1.69
Building Off Road Diesel	3.53	21.47	13.41	0.00	0.00	1.56	1.56	0.00	1.44	1.44
Building Vendor Trips	0.39	4.25	3.55	0.01	0.03	0.17	0.21	0.01	0.16	0.17
Building Worker Trips	0.50	0.87	15.34	0.02	0.09	0.06	0.15	0.03	0.05	0.08
Coating 03/01/2012-08/31/2012	16.07	0.03	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	16.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.03	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Mass Grading 12/1/2010 - 1/31/2011 - Default Mass Site Grading/Excavation Description

For Soil Stabilizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

For Soil Stabilizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

For Unpaved Roads Measures, the Manage haul road dust 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

Combined Winter Emissions Reports (Pounds/Day)

File Name: Z:\Air Quality\1067.01 Broadway Lofts\Emissions\Broadway Lofts Construction - Project.urb924

Project Name: Broadway Lofts - Construction

Project Location: South Coast AQMD

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>
2010 TOTALS (lbs/day unmitigated)	8.19	85.32	36.47	0.06	41.52	3.89	44.28	8.66	3.58	11.19
2010 TOTALS (lbs/day mitigated)	8.19	85.32	36.47	0.06	41.52	3.89	44.28	8.66	3.58	11.19
2011 TOTALS (lbs/day unmitigated)	7.60	77.43	52.76	0.06	27.36	3.55	30.91	5.74	3.26	9.00
2011 TOTALS (lbs/day mitigated)	7.60	77.43	52.76	0.06	5.02	3.55	8.57	1.07	3.26	4.34
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2012 TOTALS (lbs/day mitigated)	22.26	37.33	40.95	0.03	0.14	2.71	2.85	0.05	2.48	2.53

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

	<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>
Time Slice 11/1/2010-11/30/2010	5.11	53.79	24.12	0.06	41.52	2.75	44.28	8.66	2.53	11.19
Active Days: 22										
Demolition 11/01/2010-11/30/2010	5.11	53.79	24.12	0.06	41.52	2.75	44.28	8.66	2.53	11.19
Fugitive Dust	0.00	0.00	0.00	0.00	41.33	0.00	41.33	8.60	0.00	8.60
Demo Off Road Diesel	1.82	11.17	6.90	0.00	0.00	1.01	1.01	0.00	0.93	0.93
Demo On Road Diesel	3.27	42.56	16.34	0.05	0.19	1.74	1.94	0.06	1.60	1.67
Demo Worker Trips	0.03	0.05	0.88	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Time Slice 12/1/2010-12/31/2010	8.19	85.32	36.47	0.06	27.36	3.89	31.26	5.74	3.58	9.32
Active Days: 23										
Mass Grading 12/01/2010-01/31/2011	8.19	85.32	36.47	0.06	27.36	3.89	31.26	5.74	3.58	9.32
Mass Grading Dust	0.00	0.00	0.00	0.00	27.16	0.00	27.16	5.67	0.00	5.67
Mass Grading Off Road Diesel	4.83	42.28	18.00	0.00	0.00	2.13	2.13	0.00	1.96	1.96
Mass Grading On Road Diesel	3.29	42.92	16.48	0.05	0.19	1.76	1.95	0.06	1.62	1.68
Mass Grading Worker Trips	0.07	0.12	1.98	0.00	0.01	0.01	0.02	0.00	0.01	0.01



Phase Assumptions

Phase: Demolition 11/1/2010 - 11/30/2010 - Default Demolition Description

Building Volume Total (cubic feet): 2161701

Building Volume Daily (cubic feet): 98397.69

On Road Truck Travel (VMT): 1366.63

Off-Road Equipment:

1 Air Compressors (106 hp) operating at a 0.48 load factor for 8 hours per day

3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 6 hours per day

Phase: Mass Grading 12/1/2010 - 1/31/2011 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 0.8

Maximum Daily Acreage Disturbed: 0.8

Fugitive Dust Level of Detail: High

Onsite Haulage: 125.35 ton-miles/day; Offsite haulage: 0 ton-mils/day

On Road Truck Travel (VMT): 1378.12

Off-Road Equipment:

1 Air Compressors (106 hp) operating at a 0.48 load factor for 8 hours per day

1 Bore/Drill Rigs (291 hp) operating at a 0.75 load factor for 8 hours per day

1 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 8 hours per day

1 Cranes (399 hp) operating at a 0.43 load factor for 8 hours per day

1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day

1 Other Equipment (190 hp) operating at a 0.62 load factor for 8 hours per day

2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Paving 3/1/2012 - 8/31/2012 - Default Paving Description

Acres to be Paved: 0.2

Off-Road Equipment:

4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day

1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day

1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

Phase: Building Construction 9/1/2011 - 8/31/2012 - Building Construction (Latter)

Off-Road Equipment:

2 Air Compressors (106 hp) operating at a 0.48 load factor for 8 hours per day

2 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 8 hours per day

1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day

1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day

2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day

1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day

1 Pumps (53 hp) operating at a 0.74 load factor for 8 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

6/28/2010 04:32:58 PM

Phase: Building Construction 2/1/2011 - 8/31/2011 - Building Construction (Initial)

Off-Road Equipment:

- 2 Air Compressors (106 hp) operating at a 0.48 load factor for 8 hours per day
- 2 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 8 hours per day
- 1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day
- 1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 1 Pumps (53 hp) operating at a 0.74 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Architectural Coating 3/1/2012 - 8/31/2012 - Default Architectural Coating Description

- Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100
- Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50
- Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250
- Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100
- Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250
- Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Winter Pounds Per Day, Mitigated

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5
Time Slice 11/1/2010-11/30/2010	5.11	53.79	24.12	0.06	<u>41.52</u>	2.75	<u>44.28</u>	<u>8.66</u>	2.53	<u>11.19</u>
Active Days: 22										
Demolition 11/01/2010-11/30/2010	5.11	53.79	24.12	0.06	41.52	2.75	44.28	8.66	2.53	11.19
Fugitive Dust	0.00	0.00	0.00	0.00	41.33	0.00	41.33	8.60	0.00	8.60
Demo Off Road Diesel	1.82	11.17	6.90	0.00	0.00	1.01	1.01	0.00	0.93	0.93
Demo On Road Diesel	3.27	42.56	16.34	0.05	0.19	1.74	1.94	0.06	1.60	1.67
Demo Worker Trips	0.03	0.05	0.88	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Time Slice 12/1/2010-12/31/2010	<u>8.19</u>	<u>85.32</u>	<u>36.47</u>	<u>0.06</u>	5.02	<u>3.89</u>	8.92	1.07	<u>3.58</u>	4.66
Active Days: 23										
Mass Grading 12/01/2010-01/31/2011	8.19	85.32	36.47	0.06	5.02	3.89	8.92	1.07	3.58	4.66
Mass Grading Dust	0.00	0.00	0.00	0.00	4.82	0.00	4.82	1.01	0.00	1.01
Mass Grading Off Road Diesel	4.83	42.28	18.00	0.00	0.00	2.13	2.13	0.00	1.96	1.96
Mass Grading On Road Diesel	3.29	42.92	16.48	0.05	0.19	1.76	1.95	0.06	1.62	1.68
Mass Grading Worker Trips	0.07	0.12	1.98	0.00	0.01	0.01	0.02	0.00	0.01	0.01
Time Slice 1/3/2011-1/31/2011 Active Days: 21	<u>7.60</u>	<u>77.43</u>	34.25	<u>0.06</u>	<u>5.02</u>	<u>3.55</u>	<u>8.57</u>	<u>1.07</u>	<u>3.26</u>	<u>4.34</u>
Mass Grading 12/01/2010-01/31/2011	7.60	77.43	34.25	0.06	5.02	3.55	8.57	1.07	3.26	4.34
Mass Grading Dust	0.00	0.00	0.00	0.00	4.82	0.00	4.82	1.01	0.00	1.01
Mass Grading Off Road Diesel	4.50	38.70	17.55	0.00	0.00	1.99	1.99	0.00	1.83	1.83
Mass Grading On Road Diesel	3.03	38.62	14.86	0.05	0.19	1.55	1.75	0.06	1.43	1.49
Mass Grading Worker Trips	0.06	0.11	1.85	0.00	0.01	0.01	0.02	0.00	0.01	0.01

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Time Slice 2/1/2011-8/31/2011 Active	5.40	29.61	<u>52.76</u>	0.05	0.24	2.01	2.24	0.08	1.83	1.92
Davs: 152										
Building 02/01/2011-08/31/2011	5.40	29.61	52.76	0.05	0.24	2.01	2.24	0.08	1.83	1.92
Building Off Road Diesel	3.81	22.83	13.70	0.00	0.00	1.69	1.69	0.00	1.56	1.56
Building Vendor Trips	0.43	4.76	3.84	0.01	0.03	0.20	0.23	0.01	0.18	0.19
Building Worker Trips	1.16	2.02	35.22	0.05	0.20	0.12	0.32	0.07	0.10	0.17
Time Slice 9/1/2011-12/30/2011	4.78	28.54	34.04	0.03	0.13	1.94	2.07	0.05	1.78	1.83
Active Davs: 87										
Building 09/01/2011-08/31/2012	4.78	28.54	34.04	0.03	0.13	1.94	2.07	0.05	1.78	1.83
Building Off Road Diesel	3.81	22.83	13.70	0.00	0.00	1.69	1.69	0.00	1.56	1.56
Building Vendor Trips	0.43	4.76	3.84	0.01	0.03	0.20	0.23	0.01	0.18	0.19
Building Worker Trips	0.54	0.94	16.49	0.02	0.09	0.06	0.15	0.03	0.05	0.08
Time Slice 1/2/2012-2/29/2012 Active	4.42	26.58	32.31	0.03	0.13	1.79	1.92	0.05	1.64	1.69
Davs: 43										
Building 09/01/2011-08/31/2012	4.42	26.58	32.31	0.03	0.13	1.79	1.92	0.05	1.64	1.69
Building Off Road Diesel	3.53	21.47	13.41	0.00	0.00	1.56	1.56	0.00	1.44	1.44
Building Vendor Trips	0.39	4.25	3.55	0.01	0.03	0.17	0.21	0.01	0.16	0.17
Building Worker Trips	0.50	0.87	15.34	0.02	0.09	0.06	0.15	0.03	0.05	0.08
Time Slice 3/1/2012-8/31/2012 Active	<u>22.26</u>	<u>37.33</u>	<u>40.95</u>	<u>0.03</u>	<u>0.14</u>	<u>2.71</u>	<u>2.85</u>	<u>0.05</u>	<u>2.48</u>	<u>2.53</u>
Davs: 132										
Asphalt 03/01/2012-08/31/2012	1.77	10.72	8.18	0.00	0.01	0.92	0.92	0.00	0.84	0.84
Paving Off-Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.72	10.64	6.84	0.00	0.00	0.91	0.91	0.00	0.84	0.84
Paving On Road Diesel	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Worker Trips	0.04	0.08	1.34	0.00	0.01	0.00	0.01	0.00	0.00	0.01
Building 09/01/2011-08/31/2012	4.42	26.58	32.31	0.03	0.13	1.79	1.92	0.05	1.64	1.69
Building Off Road Diesel	3.53	21.47	13.41	0.00	0.00	1.56	1.56	0.00	1.44	1.44
Building Vendor Trips	0.39	4.25	3.55	0.01	0.03	0.17	0.21	0.01	0.16	0.17
Building Worker Trips	0.50	0.87	15.34	0.02	0.09	0.06	0.15	0.03	0.05	0.08
Coating 03/01/2012-08/31/2012	16.07	0.03	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	16.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.03	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Mass Grading 12/1/2010 - 1/31/2011 - Default Mass Site Grading/Excavation Description

For Soil Stabilizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

For Soil Stabilizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

For Unpaved Roads Measures, the Manage haul road dust 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

**Estimated Ton-Miles of Exported Soil  
High-Level of Detail for Fugitive Dust Quantification Method in URBEMIS**

**Project Name:** Input

**Grading Activity/Phase:** Input

**Cut/Fill Operations  
Activity**

	<i>Amount</i>	<i>Units</i>
Total Cut/Fill Volume	Input <input type="text" value="40,425"/>	cubic yards
Haul Truck Capacity	Input <input type="text" value="20"/>	cubic yards
Total Number of Haul Trucks	Calculated <input type="text" value="2,022"/>	
Number of Months for Excavation	Input <input type="text" value="1.0"/>	
Haul Truck Trips per Day	Calculated <input type="text" value="88"/>	

Soil Type	Density		
	(g/cm <sup>3</sup> )	(pounds/cubic yard)	(tons per cubic yard)
Sandy	1.69	2,849	1.42
Loamy Coarse-Loamy	1.63	2,748	1.37
Loamy Fine-Loamy	1.60	2,697	1.35
Loamy Coarse-Silty	1.60	2,697	1.35
Loamy Fine-Silty	1.54	2,596	1.30
Clayey 35-45% Clay	1.49	2,512	1.26
Clayey >45% Clay	1.39	2,343	1.17

Source: U.S. Department of Agriculture, Natural Resources Conservation Service, "National Soil Survey Handbook, Title 430-VI," <http://soils.usda.gov/technical/handbook/>. 2007.

**Ton-Mile per Day Calculation  
Activity**

	<i>Amount</i>	<i>Units</i>
Soil Type	Input <input type="text" value="Sandy"/>	
Soil Density	Calculated <input type="text" value="1.69"/>	g/cm <sup>3</sup>
Soil Density	Calculated <input type="text" value="2,849"/>	lbs/CY
Soil Density	Calculated <input type="text" value="1.42"/>	tons/CY
Haul Distance (Round Trip On-Site)	Input <input type="text" value="0.05"/>	Miles
Ton-Miles per Day	Calculated <input type="text" value="125.35"/>	<-----> Haul Truck Trips per Day * Haul Truck Capacity * tons/cubic yard * miles/trip