

Appendix D
Air Quality Analysis

AERIE RESIDENTIAL DEVELOPMENT AIR QUALITY FOCUSED ANALYSIS

Prepared for
Keeton Kreitzer Consulting
17291 Irvine Boulevard, Suite 305
Tustin, CA 92780

Prepared by
Synectecology
10232 Overhill Dr.
Santa Ana, CA 92705

12/22/08

AERIE RESIDENTIAL DEVELOPMENT AIR QUALITY FOCUSED ANALYSIS

1.0 Methodology

This air quality evaluation was prepared in accordance with the requirements of the California Environmental Quality Act (CEQA) to determine if significant air quality impacts are likely to occur in conjunction with the type and scale of development associated with the Aerie residential project to be located in the City of Newport Beach, California. The impact analysis contained in this report was prepared in accordance with the methodologies provided by the South Coast Air Quality Management District (SCAQMD) as included in *CEQA Air Quality Handbook* (April 1993) (*Handbook*) as well as updates included on the SCAQMD Internet web site. The analysis makes use of the data provided by the SCAQMD in their OFFROAD2007 construction emissions projections to determine the emissions associated with the construction equipment. Vehicle emissions are included for haul truck, vendors trucks, and workers and are based on emissions projections included for Orange County in the EMFAC2007 emissions model. Localized emissions generated during construction are based on screening tables included in the SCAQMD's *Sample Construction Scenarios for Projects Less than Five Acres in Size*, (February 2005). Finally, operational emissions are based on the URBEMIS2007 urban emissions model (Version 9.4.2).

The Aerie residential project involves the demolition of approximately 16,493 square feet of an existing 14-unit multi-family residential structure and existing dockways and construction and subsequent use of eight condominium units on 1.4 acres of land. The structures are to include approximately 32,413 square feet of living area, 5,943 square feet of storage area, 13,234 square feet of parking, and 10,119 square feet devoted to circulation and mechanical aspects

The calculated emissions of the project are compared to thresholds of significance for individual projects using the SCAQMD *Handbook* as well as their Internet updates. The analysis finds that with the inclusion of standard dust control techniques as required under SCAQMD Rule 403, construction emissions would not exceed either their mass daily threshold values and the impact is less than significant. However, PM₁₀ emissions associated with demolition activities could exceed the allowable localized concentrations at proximate receptor locations and mitigation in the form of additional site and debris watering is prescribed to reduce this potential impact to less than significant. All operational emissions would remain below their respective threshold values. No other significant impacts have been identified and no other mitigation is warranted under CEQA.

2.0 Thresholds of Significance

The State CEQA Guidelines suggest, from an "air quality" perspective, that a project would normally be judged to produce a significant or potentially significant effect on the environment if the project were to:

- *Conflict with or obstruct implementation of the applicable air quality plan.*
- *Violate any air quality standard or contribute substantially to an existing or projected air quality violation.*
- *Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or State ambient air quality standards.*
- *Expose sensitive receptors to substantial air pollutant concentrations.*
- *Create objectionable odors affecting a substantial number of people.*

As indicated in Section 15064(i)(1) of the State CEQA Guidelines, "cumulatively considerable" is defined to mean "that the incremental effects of an individual project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects."

In order to determine whether or not a proposed project would cause a significant effect on the environment, the impact of the project must be determined by examining the types and levels of emissions generated and its impacts on factors that affect air quality. To accomplish this determination of significance, the SCAQMD has established air pollution thresholds against which a proposed project can be evaluated and assist lead agencies in determining whether or not the proposed project is significant. If the thresholds are exceeded by a proposed project, then it should be considered significant.

While, the final determination of whether or not a project is significant is within the purview of the lead agency pursuant to the State CEQA Guidelines, the SCAQMD *recommends* that the following air pollution thresholds be used by lead agencies in determining whether the construction or operational phase of a proposed project is significant. If the lead agency finds that the proposed project has the potential to exceed any of these air pollution thresholds, the project should be considered significant.

2.1 Construction Phase - Thresholds of Significance

The following significance thresholds for air quality have been established by the SCAQMD on a daily basis for construction emissions:

- 75 pounds per day for ROG
- 100 pounds per day for NOx
- 550 pounds per day for CO
- 150 pounds per day of SOx
- 150 pounds per day for PM₁₀
- 55 pounds per day for PM_{2.5}

During construction, if any of the identified daily air pollutant thresholds are exceeded by the proposed project, then the project's air quality impacts may be considered significant.

2.2 Operational Phase - Thresholds of Significance

Specific criteria air pollutants have been identified by the SCAQMD as pollutants of special regional concern. Based upon this categorization, the following significance thresholds have been established by the SCAQMD for project operations:

- 55 pounds per day of ROG
- 55 pounds per day of NOx
- 550 pounds per day of CO
- 150 pounds per day of SOx
- 150 pounds per day of PM₁₀
- 55 pounds per day for PM_{2.5}

Projects within the SCAB with daily operation-related emissions that exceed any of the above emission thresholds may be considered significant. The SCAQMD indicates in Chapter 6 of their *Handbook* that they consider a project to be mitigated to a level of insignificance if its primary effects are mitigated below the thresholds provided above.

2.3 *Local Emission Standards*

In addition to the mass daily threshold values presented above, projects that have the ability to exceed or add measurably to an existing excess of the ambient concentrations may be considered significant. The following localized significance thresholds have been established by the SCAQMD for individual projects:

- California State 1-hour CO standard of 20.0 ppm
- California State 8-hour CO standard of 9.0 ppm
- California State 1-hour NO₂ standard of 0.18 ppm
- SCAQMD 24-hour construction PM₁₀ and PM_{2.5} standards of 10.4 µg/m³
- SCAQMD 24-hour operational PM₁₀ and PM_{2.5} standards of 2.5 µg/m³

The significance of localized project impacts depends on whether ambient levels in the vicinity of the project are above or below State and federal standards. If ambient levels are below the standards, a project is considered to have significant impacts if project emissions result in an exceedance of one or more of these standards. If ambient levels already exceed a State or federal standard, then project emissions are considered significant if they increase ambient concentrations by a measurable amount. Again, the SCAQMD indicates in Chapter 6 of their *Handbook* that they consider a project to be mitigated to a level of insignificance if its effects are mitigated below the thresholds provided above.

3.0 *Environmental Impacts and Mitigation Measures*

The Aerie project involves the demolition of approximately 16,493 square feet of existing residential structures and existing dockways and construction and subsequent use of eight condominium units with dockways on 1.4 acres of land. The structures are to include approximately 32,413 square feet of living area, 5,943 square feet of storage area, 13,234 square feet of parking, and 10,119 square feet devoted to circulation and mechanical aspects.

Projected construction emissions are calculated using OFFROAD2007 model data included on the SCAQMD web site for use in projecting construction emissions. The model updates the emissions on a yearly basis, and the analysis follows this trend. A construction management plan was worked out by Brion Jeannette Architecture in conjunction with the construction contractor and this analysis uses that data. Equipment emissions were selected to best represent the contractor's projections of type and, where known, horsepower values. Where no value was known the SCAQMD composite values were substituted.

Emissions for the trucks used to haul debris and deliver supplies were based on data included in the CARB EMFAC2007 model with emissions selected specific to travel in Orange County, California. Like the equipment emissions, these are updated on a yearly basis. All trucks are assumed to be heavy, heavy diesels. The distances traveled are dependant on the type load and were developed by Brion Jeannette Architecture in conjunction with the construction contractor. Similarly, worker trips were based on data included in the CARB EMFAC2007 model with emissions selected specific to travel in Orange County, California. In this case the emissions were based on a composite of automobiles and light trucks less than 5,151 pounds gross vehicle weight. While the construction management plan specifies that workers are to carpool reducing the number of daily trips, as a reasonable worst-case scenario, each worker was assumed to commute a round-trip distance of 20 miles to the carpool or project site.

The subsequent occupation of the site is based on the URBEMIS2007 model. The majority of residential emissions are based on vehicle trips. The URBEMIS default value for condominiums is 5.86 trips per unit. In accordance with the *ITE Trip Generation Manual*, these values can range from 1.83 to 11.79 trips per unit. Based on the size of the proposed units, as a worst-case scenario this analysis uses a trip rate of 11.79 trips per unit per day and the project is estimated to result in 94 average daily trips (ADT). The calculated emissions of the project are compared to thresholds of significance for individual projects using the *SCAQMD Handbook* and Internet web site updates. The *Handbook* recommends assessing emissions of reactive organic compounds (ROC or ROG) as an indicator of ozone. For ease of the reader, the included impact analysis follows the outline of the CEQA Checklist.

3.1 Project Consistency With the Applicable Air Quality Plan

Less Than Significant Impact. The proposed project represents the removal of 14 multi-family units and replacement with eight condominiums in the City of Newport Beach. The project would not involve growth-inducing impacts or cause an exceedance of established population or growth projections. Furthermore, the project is of a size such that it would not create either short- or long-term significant quantities of criteria pollutants. Additionally, with the included mitigation, the project would not result in significant localized air quality impacts. As such, the project is consistent with the goals of AQMP, and in this respect does not present a significant impact.

3.2 Project Potential to Violate or Add to a Violation of an Air Quality Standard

3.2.1 Site Construction

Less Than Significant Impact. Air quality impacts may occur during demolition activities, site preparation, and construction activities required to implement the proposed land use. Major sources of emissions during construction typically include exhaust emissions generated by heavy equipment and vehicles, fugitive dust generated as a result of soil and material disturbance during demolition and grading activities, and the emissions of reactive organic compounds during site paving and painting of the structures.

As noted, an extensive construction management plan was developed to include all phases of the proposed construction effort on a day-by-day basis. Equipment emissions are based on the OFFROAD2007 emissions model while vehicle emissions are based in the EMFAC2007 emissions model. In accordance with requirements under SCAQMD Rule 403 for dust suppression, a 55 percent control factor is applied to the demolition activities. A similar control efficiency is used by the URBEMIS2007 model for twice daily watering of graded surfaces.

The project site includes approximately 1.4 acres of land. The URBEMIS model estimates that 25 percent of this area (0.35 acre) is disturbed on a daily basis. This acreage (i.e., 0.35 acre) is then used in the calculation of daily dust emissions, which are assumed to occur during excavation and grading activities. Based on the URBEMIS model, a value of 20 pounds per acre per day is assumed. Also, based on the URBEMIS model, a suppression of 55 percent is assumed for adherence to SCAQMD Rule 403 as required for all projects constructed in the Southland. Truck trips are also included for the removal of debris and delivery of materials.

The structures are then constructed over time with various phases of construction overlapping each other. Some of these phases involve work over five days a week while others would extend this to six days a week. The analysis includes both, and in these cases presents those emissions for the five days a week that overlap (though the greenhouse gas analysis considers the sixth day in its total). The URBEMIS model considers dust emissions negligible during the construction of the actual structures, and this analysis follows that approach. Like excavation, the analysis includes the daily delivery of materials to the site.

The structure is painted in the final stages of construction. The major source of emissions associated with the application of paints and surface coatings is from the release of volatile organic compounds (VOCs). These are also a form ROG and are assessed as such. The architect has specified that interior paint is to contain no more than 10 grams per liter and exterior paint is to contain no more than 27 grams per liter of VOC. The area to be painted is based on data included with the URBEMIS model. All interior surfaces are to receive three coats while exterior

surfaces would receive one coat. While the application of asphalt also releases VOC emissions, no asphalt is proposed for the project and these surfaces will be of concrete construction.

Table 1 summarizes the daily emissions projected for site construction. As noted above, some phases of construction would occur five days a week whereas others would use six days. The table presents those five days of overlap in calculation of the worst-case days. (Greenhouse gases, discussed later in this analysis, also include these “sixth day” emissions.) Note that all daily emissions are under their respective criteria levels and the impact is less than significant. Equipment and vehicle calculation spreadsheets showing the daily specifics for each phase are included in the appendix.

Table 1
Comparison of Projected Construction Emissions and Daily Criteria Values
(Pounds/Day)

<i>Source</i>	<i>ROG</i>	<i>NOx</i>	<i>CO</i>	<i>SO₂</i>	<i>PM₁₀</i> <i>Dust¹</i>	<i>PM₁₀</i> <i>Exhaust</i>	<i>PM₁₀</i> <i>Total</i>	<i>PM_{2.5}</i> <i>Dust</i>	<i>PM_{2.5}</i> <i>Exhaust</i>	<i>PM_{2.5}</i> <i>Total</i>	<i>CO₂</i>
Phase 1A, Demolition, 8/10/10 - 8/17/10, 6 Days											
Fugitive Dust ¹	0.00	0.00	0.00	0.00	5.20	0.00	5.20 ¹	1.09 ¹	0.00	1.09 ¹	0.00
Off Road Diesel	1.82	16.96	6.25	0.02	0.00	0.74	0.74	0.00	0.66	0.66	1,787.67
On Road Diesel	2.28	20.46	13.28	0.03	0.00	0.92	0.92	0.00	0.91	0.91	2,362.89
Worker Trips	0.14	0.12	1.30	0.00	0.00	0.01	0.01	0.00	0.01	0.01	153.18
Daily Totals	4.24	37.54	20.83	0.05	5.20	1.67	6.87	1.09	1.58	2.67	2,604.77
Phase 1B, Caisson Installation, 8/18/10 - 9/3/10, 13 Days											
Off Road Diesel	3.04	26.47	12.11	0.03	0.00	1.37	1.37	0.00	1.22	1.22	3,165.50
On Road Diesel	0.88	7.94	5.15	0.01	0.00	0.36	0.36	0.00	0.35	0.35	917.12
Worker Trips	0.14	0.12	1.30	0.00	0.00	0.01	0.01	0.00	0.01	0.01	153.18
Daily Totals	4.06	34.53	18.56	0.04	0.00	1.74	1.74	0.00	1.58	1.58	4,235.8
Phase 1C, Excavation, 9/7/10 - 11/2/10, 41 Days											
Dust	0.00	0.00	0.00	0.00	3.15	0.00	3.15	0.66	0.00	0.66	0.00
Off Road Diesel	2.64	28.64	8.83	0.03	0.00	1.07	1.07	0.00	0.95	0.95	3,152.43
On Road Diesel	6.15	55.25	35.84	0.07	0.00	2.47	2.47	0.00	2.45	2.45	6,379.81
Worker Trips	0.29	0.23	2.61	0.00	0.00	0.03	0.03	0.00	0.03	0.03	306.37
Daily Totals	9.08	84.12	47.28	0.10	3.15	3.57	6.72	0.66	3.43	4.09	9,838.61
Phase 1D, Caisson Installation, 11/3/10 - 11/10/10, 6 Days											
Off Road Diesel	2.26	20.36	9.57	0.03	0.00	1.06	1.06	0.00	0.94	0.94	2,592.00
On Road Diesel	1.10	9.92	6.44	0.01	0.00	0.44	0.44	0.00	0.44	0.44	1,145.40
Worker Trips	0.29	0.23	2.61	0.00	0.00	0.03	0.03	0.00	0.03	0.03	306.37
Daily Totals	3.65	30.51	18.62	0.04	0.00	1.53	1.53	0.00	1.41	1.41	4,043.77
Phase 1E, Excavation, 11/11/10 - 12/9/10, 21 Days											
Dust	0.00	0.00	0.00	0.00	3.15	0.00	3.15	0.66	0.00	0.66	0.00
Off Road Diesel	2.74	29.32	9.22	0.04	0.00	1.12	1.12	0.00	1.00	1.00	3,219.23
On Road Diesel	6.38	57.30	37.17	0.08	0.00	2.57	2.57	0.00	2.54	2.54	6,616.09
Worker Trips	0.29	0.23	2.61	0.00	0.00	0.03	0.03	0.00	0.03	0.03	306.37
Daily Totals	9.41	86.85	49.00	0.12	3.15	3.72	6.87	0.66	3.57	4.23	10,141.69
Phase 1F, Bracing Installation, 12/10/10 - 12/20/10, 7 Days											
Dust	0.00	0.00	0.00	0.00	3.15	0.00	3.15	0.66	0.00	0.66	0.00
Off Road Diesel	2.53	21.38	7.26	0.02	0.00	0.95	0.95	0.00	0.85	0.85	2,098.80
On Road Diesel	0.52	4.65	3.02	0.01	0.00	0.21	0.21	0.00	0.21	0.21	536.66

Worker Trips	0.29	0.23	2.61	0.00	0.00	0.03	0.03	0.00	0.03	0.03	306.37
Daily Totals	3.34	26.26	12.89	0.03	3.15	1.19	4.34	0.66	1.09	1.75	2,941.83
Phase 1G, Excavation, 12/21/10 - 12/31/10, 8 Days											
Dust	0.00	0.00	0.00	0.00	3.15	0.00	3.15	0.66	0.00	0.66	0.00
Off Road Diesel	2.57	27.44	8.35	0.03	0.00	1.06	1.06	0.00	0.94	0.94	3,010.07
On Road Diesel	6.60	59.35	38.50	0.08	0.00	2.66	2.66	0.00	2.63	2.63	6,852.38
Worker Trips	0.29	0.23	2.61	0.00	0.00	0.03	0.03	0.00	0.03	0.03	306.37
Daily Totals	9.46	87.02	49.46	0.11	3.15	3.75	6.90	0.66	3.60	4.26	10,168.82
Phase 1GG, Excavation, 1/1/11 - 1/10/11, 7 Days											
Dust	0.00	0.00	0.00	0.00	3.15	0.00	3.15	0.66	0.00	0.66	0.00
Off Road Diesel	2.59	25.08	8.03	0.03	0.00	0.95	0.95	0.00	0.85	0.85	3,010.07
On Road Diesel	6.13	53.95	35.55	0.08	0.00	2.46	2.46	0.00	2.44	2.44	6,900.50
Worker Trips	0.27	0.21	2.42	0.00	0.00	0.03	0.03	0.00	0.03	0.03	308.31
Daily Totals	8.99	79.24	46.00	0.11	3.15	3.44	6.59	0.66	3.32	3.98	10,218.88
Phase 2A, Sub-basement, 1/11/11 - 2/28/11, 35 Days											
Off Road Diesel	2.40	17.77	8.65	0.02	0.00	1.02	1.02	0.00	0.91	0.91	1,781.10
On Road Diesel	1.93	16.93	11.16	0.03	0.00	0.77	0.77	0.00	0.76	0.76	2,165.73
Worker Trips	0.50	0.40	4.54	0.01	0.00	0.05	0.05	0.00	0.05	0.05	578.09
Daily Totals	4.83	35.10	24.35	0.06	0.00	1.84	1.84	0.00	1.72	1.72	4,524.92
Phase 2B – Shotcrete Sub-basement, 3/1/11 - 4/25/11, 40 Days											
Off Road Diesel	1.83	14.15	6.47	0.02	0.00	0.67	0.67	0.00	0.60	0.60	1,479.20
On Road Diesel	2.08	18.26	12.03	0.03	0.00	0.83	0.83	0.00	0.82	0.82	2,335.12
Worker Trips	0.50	0.40	4.54	0.01	0.00	0.05	0.05	0.00	0.05	0.05	578.09
Daily Totals	4.41	32.81	23.04	0.06	0.00	1.55	1.55	0.00	1.47	1.47	4,392.41
Phase 2C - Basement Deck, 4/26/11 - 6/6/11, 30 Days											
Off Road Diesel	1.75	13.62	6.17	0.02	0.00	0.63	0.63	0.00	0.56	0.56	1,429.60
On Road Diesel	1.82	16.05	10.58	0.02	0.00	0.73	0.73	0.00	0.72	0.72	2,052.81
Worker Trips	0.50	0.40	4.54	0.01	0.00	0.05	0.05	0.00	0.05	0.05	578.09
Daily Totals	4.07	30.07	21.29	0.05	0.00	1.41	1.41	0.00	1.33	1.33	4,060.5
Phase 2D - Shotcrete Basement, 6/7/11 - 8/1/11, 40 Days											
Off Road Diesel	1.75	13.62	6.17	0.02	0.00	0.63	0.63	0.00	0.56	0.56	1,429.60
On Road Diesel	1.94	17.06	11.24	0.03	0.00	0.78	0.78	0.00	0.77	0.77	2,181.86
Worker Trips	0.50	0.40	4.54	0.01	0.00	0.05	0.05	0.00	0.05	0.05	578.09
Daily Totals	4.19	31.08	21.95	0.06	0.00	1.46	1.46	0.00	1.38	1.38	4,189.55
Phase 2,3A - First Floor Deck, 8/2/11 - 8/30/11, 21 Days											
Off Road Diesel	2.35	19.63	8.55	0.03	0.00	0.89	0.89	0.00	0.79	0.79	2,225.80
On Road Diesel	2.96	26.01	17.14	0.04	0.00	1.19	1.19	0.00	1.18	1.18	3,327.24
Worker Trips	0.70	0.56	6.36	0.01	0.00	0.07	0.07	0.00	0.07	0.07	809.32
Phase 2,3B - Install Mechanical at Sub-Basement, 8/2/11 - 8/30/11, 25 Days											
Off Road Diesel	0.69	6.52	2.77	0.01	0.00	0.28	0.28	0.00	0.25	0.25	861.00
On Road Diesel	0.48	4.19	2.76	0.01	0.00	0.19	0.19	0.00	0.19	0.19	536.39
Worker Trips	0.33	0.27	3.03	0.00	0.00	0.03	0.03	0.00	0.03	0.03	385.39
Daily Totals	7.51	57.18	40.61	0.10	0.00	2.65	2.65	0.00	2.51	2.51	8,145.14
Phase 2,3A - First Floor Deck, 8/31/11 - 9/12/11, 9 Days											
Off Road Diesel	2.35	19.63	8.55	0.03	0.00	0.89	0.89	0.00	0.79	0.79	2,225.80
On Road Diesel	2.96	26.01	17.14	0.04	0.00	1.19	1.19	0.00	1.18	1.18	3,327.24
Worker Trips	0.70	0.56	6.36	0.01	0.00	0.07	0.07	0.00	0.07	0.07	809.32
Daily Totals	6.01	46.20	32.05	0.08	0.00	2.15	2.15	0.00	2.04	2.04	6,362.36

Phase 2,3C - Shotcrete First Floor, 9/13/11 - 11/7/11, 40 Days

Off Road Diesel	2.41	19.97	8.80	0.03	0.00	0.91	0.91	0.00	0.81	0.81	4,395.40
On Road Diesel	2.09	18.42	12.13	0.03	0.00	0.84	0.84	0.00	0.83	0.83	2,355.28
Worker Trips	0.70	0.56	6.36	0.01	0.00	0.07	0.07	0.00	0.07	0.07	809.32
Daily Totals	5.20	38.95	27.29	0.07	0.00	1.82	1.82	0.00	1.71	1.71	7,560.00

Phase 2,3D - Second Floor Deck, 11/8/11 - 12/6/11, 25 Days

Off Road Diesel	2.46	20.32	9.06	0.03	0.00	0.93	0.93	0.00	0.82	0.82	4,705.60
On Road Diesel	1.84	16.21	10.68	0.02	0.00	0.74	0.74	0.00	0.73	0.73	2,072.97
Worker Trips	0.50	0.40	4.54	0.01	0.00	0.05	0.05	0.00	0.05	0.05	578.09

Phase 2,3E - Install Electrical and Plumbing in Basement, 11/8/11 - 12/6/11, 25 Days

Off Road Diesel	0.69	6.52	2.77	0.01	0.00	0.28	0.28	0.00	0.25	0.25	784.00
On Road Diesel	0.48	4.19	2.76	0.01	0.00	0.19	0.19	0.00	0.19	0.19	536.39
Worker Trips	0.33	0.27	3.03	0.00	0.00	0.03	0.03	0.00	0.03	0.03	385.39
Daily Totals	6.30	47.91	32.84	0.08	0.00	2.22	2.22	0.00	2.07	2.07	9,062.44

Phase 2,3D - Second Floor Deck, 12/7/11 - 12/19/11, 5 Days

Off Road Diesel	2.46	20.32	9.06	0.03	0.00	0.93	0.93	0.00	0.82	0.82	4,705.60
On Road Diesel	1.84	16.21	10.68	0.02	0.00	0.74	0.74	0.00	0.73	0.73	2,072.97
Worker Trips	0.50	0.40	4.54	0.01	0.00	0.05	0.05	0.00	0.05	0.05	578.09
Daily Totals	4.80	36.93	24.28	0.06	0.00	1.72	1.72	0.00	1.60	1.60	7,356.66

Phase 2,3F - Shotcrete Second Floor, 12/20/11 - 12/31/11, 9 Days

Off Road Diesel	2.14	17.89	7.93	0.03	0.00	0.78	0.78	0.00	0.70	0.70	2,161.00
On Road Diesel	1.58	15.42	10.16	0.02	0.00	0.70	0.70	0.00	0.70	0.70	1,972.15
Worker Trips	0.70	0.56	6.36	0.01	0.00	0.07	0.07	0.00	0.07	0.07	809.21
Daily Totals	4.42	33.87	24.45	0.06	0.00	1.55	1.55	0.00	1.47	1.47	4,942.36

Phase 2,3FF - Shotcrete Second Floor, 1/1/12 - 2/13/12, 31 Days

Off Road Diesel	2.14	17.89	7.93	0.03	0.00	0.78	0.78	0.00	0.70	0.70	2,161.00
On Road Diesel	1.58	13.86	9.11	0.02	0.00	0.64	0.64	0.00	0.63	0.63	1,984.99
Worker Trips	0.07	0.52	5.88	0.01	0.00	0.07	0.07	0.00	0.07	0.07	808.30
Daily Totals	3.79	32.27	22.92	0.06	0.00	1.49	1.49	0.00	1.40	1.40	4,954.29

Phase 2,3G - Third Floor Deck, 2/14/12 - 3/26/12, 30 Days

Off Road Diesel	1.57	12.38	5.62	0.02	0.00	0.55	0.55	0.00	0.49	0.49	1,364.80
On Road Diesel	1.42	12.42	8.16	0.02	0.00	0.57	0.57	0.00	0.56	0.56	1,777.97
Worker Trips	0.47	0.37	4.20	0.01	0.00	0.05	0.05	0.00	0.05	0.05	577.36
Daily Totals	3.46	25.17	17.98	0.05	0.00	1.17	1.17	0.00	1.10	1.10	3,720.13

Phase 2,3H - Third Floor Interior, 3/27/12 - 4/16/12, 15 Days

Off Road Diesel	2.08	17.55	7.67	0.02	0.00	0.76	0.76	0.00	0.68	0.68	2,117.80
On Road Diesel	1.46	12.78	8.40	0.02	0.00	0.59	0.59	0.00	0.58	0.58	1,830.74
Worker Trips	0.66	0.52	5.88	0.01	0.00	0.07	0.07	0.00	0.07	0.07	808.30

Phase 2,3I - First Floor Mechanical, 3/27/12 - 4/16/12, 18 Days

Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00
On Road Diesel	0.43	3.77	2.48	0.01	0.00	0.17	0.17	0.00	0.17	0.17	539.89
Worker Trips	0.31	0.25	2.80	0.00	0.00	0.03	0.03	0.00	0.03	0.03	384.90
Daily Totals	5.59	40.89	29.92	0.07	0.00	1.88	1.88	0.00	1.76	1.76	6,542.63

Phase 2,3I - First Floor Mechanical, 4/17/12 - 4/24/12, 7 Days

Off Road Diesel	1.42	13.52	4.87	0.02	0.00	0.53	0.53	0.00	0.47	0.47	1,645.00
On Road Diesel	0.43	3.77	2.48	0.01	0.00	0.17	0.17	0.00	0.17	0.17	539.89
Worker Trips	0.38	0.29	3.36	0.00	0.00	0.04	0.04	0.00	0.04	0.04	461.89

Phase 2,3J - Fourth Floor Deck, 4/17/12 - 4/24/12, 6 Days

Off Road Diesel	1.45	10.90	6.14	0.02	0.00	0.54	0.54	0.00	0.48	0.48	1,441.80
On Road Diesel	2.12	18.54	12.19	0.03	0.00	0.85	0.85	0.00	0.84	0.84	2,654.78
Worker Trips	0.66	0.52	5.88	0.01	0.00	0.07	0.07	0.00	0.07	0.07	808.30
Phase 2,3K - Second Floor Mechanical, 4/17/12 - 4/24/12, 7 Days											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00
On Road Diesel	0.43	3.77	2.48	0.01	0.00	0.17	0.17	0.00	0.17	0.17	539.89
Worker Trips	0.31	0.25	2.80	0.00	0.00	0.03	0.03	0.00	0.03	0.03	384.90
Daily Totals	9.69	72.89	50.59	0.13	0.00	3.29	3.29	0.00	3.07	3.07	11,435.97
Phase 2,3J - Fourth Floor Deck, 4/25/12 - 5/15/12, 15 Days											
Off Road Diesel	1.45	10.90	6.14	0.02	0.00	0.54	0.54	0.00	0.48	0.48	1,441.80
On Road Diesel	2.12	18.54	12.19	0.03	0.00	0.85	0.85	0.00	0.84	0.84	2,654.78
Worker Trips	0.66	0.52	5.88	0.01	0.00	0.07	0.07	0.00	0.07	0.07	808.30
Phase 2,3K - Second Floor Mechanical, 4/25/12 - 5/15/12, 18 Days											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00
On Road Diesel	0.43	3.77	2.48	0.01	0.00	0.17	0.17	0.00	0.17	0.17	539.89
Worker Trips	0.31	0.25	2.80	0.00	0.00	0.03	0.03	0.00	0.03	0.03	384.90
Phase 4B - Interior Build Out, Sub-Basement, 4/25/12 - 5/15/12, 18 Days											
Off Road Diesel	1.55	14.31	5.46	0.02	0.00	0.57	0.57	0.00	0.51	0.51	1,745.80
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Daily Totals	7.46	55.31	39.88	0.10	0.00	2.55	2.55	0.00	2.39	2.39	8,789.19
Phase 2,3J - Fourth Floor Deck, 5/16/12 - 5/28/12, 9 Days											
Off Road Diesel	1.45	10.90	6.14	0.02	0.00	0.54	0.54	0.00	0.48	0.48	1,441.80
On Road Diesel	2.12	18.54	12.19	0.03	0.00	0.85	0.85	0.00	0.84	0.84	2,654.78
Worker Trips	0.66	0.52	5.88	0.01	0.00	0.07	0.07	0.00	0.07	0.07	808.30
Phase 2,3K - Second Floor Mechanical, 5/16/12 - 5/28/12, 11 Days											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00
On Road Diesel	0.43	3.77	2.48	0.01	0.00	0.17	0.17	0.00	0.17	0.17	539.89
Worker Trips	0.31	0.25	2.80	0.00	0.00	0.03	0.03	0.00	0.03	0.03	384.90
Phase 4B - Interior Build Out, Sub-Basement, 5/16/12 - 5/28/12, 11 Days											
Off Road Diesel	1.55	14.31	5.46	0.02	0.00	0.57	0.57	0.00	0.51	0.51	1,745.80
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Phase 4C - Interior Build Out, Basement, 5/16/12 - 5/28/12, 11 Days											
Off Road Diesel	1.48	13.91	5.16	0.02	0.00	0.55	0.55	0.00	0.49	0.49	1,695.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Daily Totals	9.23	70.22	47.28	0.12	0.00	3.16	3.16	0.00	2.94	2.94	10,837.31
Phase 2,3L - Fourth Floor Interior, 5/29/12 - 5/31/12, 3 Days											
Off Road Diesel	1.43	11.54	4.98	0.02	0.00	0.51	0.51	0.00	0.45	0.45	1,256.80
On Road Diesel	1.65	14.43	9.48	0.02	0.00	0.66	0.66	0.00	0.66	0.66	2,066.18
Worker Trips	0.47	0.37	4.20	0.01	0.00	0.05	0.05	0.00	0.05	0.05	577.36
Phase 4B - Interior Build Out, Sub-Basement, 5/29/12 - 5/31/12, 3 Days											
Off Road Diesel	1.55	14.31	5.46	0.02	0.00	0.57	0.57	0.00	0.51	0.51	1,745.80
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Phase 4C - Interior Build Out, Basement, 5/29/12 - 5/31/12, 3 Days											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40

On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Daily Totals	6.39	49.06	31.59	0.08	0.00	2.19	2.19	0.00	2.04	2.04	7,262.98
Phase 2,3L - Fourth Floor Interior, 6/1/12 - 6/18/12, 12 Days											
Off Road Diesel	1.43	11.54	4.98	0.02	0.00	0.51	0.51	0.00	0.45	0.45	1,256.80
On Road Diesel	1.65	14.43	9.48	0.02	0.00	0.66	0.66	0.00	0.66	0.66	2,066.18
Worker Trips	0.47	0.37	4.20	0.01	0.00	0.05	0.05	0.00	0.05	0.05	577.36
Phase 4B - Interior Build Out, Sub-Basement, 6/1/12 - 6/18/12, 15 Days											
Off Road Diesel	0.78	6.81	3.29	0.01	0.00	0.30	0.30	0.00	0.26	0.26	961.80
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Phase 4C - Interior Build Out, Basement, 6/1/12 - 6/18/12, 15 Days											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Phase 4D - Interior Build Out, First Floor, 6/1/12 - 6/18/12, 15 Day											
Off Road Diesel	0.07	0.39	0.30	0.00	0.00	0.02	0.02	0.00	0.02	0.02	50.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.25	0.20	2.24	0.00	0.00	0.03	0.03	0.00	0.03	0.03	307.92
Daily Totals	2.49	16.66	13.86	0.02	0.00	0.79	0.79	0.00	0.72	0.72	3,058.74
Phase 3A - Fourth Floor Framing, 6/19/12 - 7/23/12, 30 Days											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00
On Road Diesel	0.35	3.06	2.01	0.00	0.00	0.14	0.14	0.00	0.14	0.14	438.40
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Phase 4B - Interior Build Out, Sub-Basement, 6/19/12 - 7/23/12, 30 Days											
Off Road Diesel	0.78	6.81	3.29	0.01	0.00	0.30	0.30	0.00	0.26	0.26	961.80
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Phase 4C - Interior Build Out, Basement, 6/19/12 - 7/23/12, 30 Days											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Phase 4D - Interior Build Out, First Floor, 6/19/12 - 7/23/12, 30 Days											
Off Road Diesel	0.07	0.39	0.30	0.00	0.00	0.02	0.02	0.00	0.02	0.02	50.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.25	0.20	2.24	0.00	0.00	0.03	0.03	0.00	0.03	0.03	307.92
Crane ²	0.77	7.50	2.17	0.01	0.00	0.27	0.27	0.00	0.24	0.24	784.00
Daily Totals	4.45	33.39	22.41	0.04	0.00	1.48	1.48	0.00	1.35	1.35	5,373.08
Phase 3B - Fourth Floor Mechanical, 7/24/12, 1 Day											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00
On Road Diesel	0.43	3.77	2.48	0.01	0.00	0.17	0.17	0.00	0.17	0.17	539.89
Worker Trips	0.31	0.25	2.80	0.00	0.00	0.03	0.03	0.00	0.03	0.03	384.90
Phase 3C - Windows and Doors, 7/24/12, 1 Day											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00
On Road Diesel	0.15	1.33	0.88	0.00	0.00	0.06	0.06	0.00	0.06	0.06	190.79
Worker Trips	0.09	0.07	0.84	0.00	0.00	0.01	0.01	0.00	0.01	0.01	115.47
Phase 3D - Waterproofing, 7/24/12, 1 Day											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00

On Road Diesel	0.11	0.96	0.63	0.00	0.00	0.04	0.04	0.00	0.04	0.04	138.02
Worker Trips	0.06	0.05	0.56	0.00	0.00	0.01	0.01	0.00	0.01	0.01	76.98
Phase 4B - Interior Build Out, Sub-Basement, 7/24/12, 1 Day											
Off Road Diesel	0.78	6.81	3.29	0.01	0.00	0.30	0.30	0.00	0.26	0.26	961.80
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Phase 4C - Interior Build Out, Basement, 7/24/12, 1 Day											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Phase 4D - Interior Build Out, First Floor, 7/24/12, 1 Day											
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.25	0.20	2.24	0.00	0.00	0.03	0.03	0.00	0.03	0.03	307.92
Crane	0.77	7.50	2.17	0.01	0.00	0.27	0.27	0.00	0.24	0.24	784.00
Daily Totals	6.29	48.26	32.02	0.07	0.00	1.35	1.35	0.00	1.23	1.23	7,821.39
Phase 3B - Fourth Floor Mechanical, 7/25/12 - 8/2/12, 7 Days											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00
On Road Diesel	0.43	3.77	2.48	0.01	0.00	0.17	0.17	0.00	0.17	0.17	539.89
Worker Trips	0.31	0.25	2.80	0.00	0.00	0.03	0.03	0.00	0.03	0.03	384.90
Phase 3C - Windows and Doors, 7/25/12 - 8/2/12, 7 Days											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00
On Road Diesel	0.15	1.33	0.88	0.00	0.00	0.06	0.06	0.00	0.06	0.06	190.79
Worker Trips	0.09	0.07	0.84	0.00	0.00	0.01	0.01	0.00	0.01	0.01	115.47
Phase 3D - Waterproofing, 7/25/12 - 8/2/12, 7 Days											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00
On Road Diesel	0.11	0.96	0.63	0.00	0.00	0.04	0.04	0.00	0.04	0.04	138.02
Worker Trips	0.06	0.05	0.56	0.00	0.00	0.01	0.01	0.00	0.01	0.01	76.98
Phase 4B - Interior Build Out, Sub-Basement, 7/25/12 - 8/2/12, 8 Days											
Off Road Diesel	0.78	6.81	3.29	0.01	0.00	0.30	0.30	0.00	0.26	0.26	961.80
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Phase 4C - Interior Build Out, Basement, 7/25/12 - 8/2/12, 8 Days											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Off Road Diesel	0.07	0.39	0.30	0.00	0.00	0.02	0.02	0.00	0.02	0.02	50.40
Phase 4D - Interior Build Out, First Floor, 7/25/12 - 8/2/12, 8 Days											
Off Road Diesel	0.07	0.39	0.30	0.00	0.00	0.02	0.02	0.00	0.02	0.02	50.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.25	0.20	2.24	0.00	0.00	0.03	0.03	0.00	0.03	0.03	307.92
Phase 4E - Interior Build Out, Second Floor, 7/25/12 - 8/2/12, 8 Days											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Crane	0.77	7.50	2.17	0.01	0.00	0.27	0.27	0.00	0.24	0.24	784.00
Daily Totals	7.43	56.45	37.82	0.09	0.00	2.78	2.78	0.00	2.30	2.30	9,186.31
Phase 3B - Fourth Floor Mechanical, 8/3/12 - 8/7/12, 3 Days											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00

On Road Diesel	0.43	3.77	2.48	0.01	0.00	0.17	0.17	0.00	0.17	0.17	539.89
Worker Trips	0.31	0.25	2.80	0.00	0.00	0.03	0.03	0.00	0.03	0.03	384.90
Phase 3C - Windows and Doors, 8/3/12 - 8/7/12, 3 Days											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00
On Road Diesel	0.15	1.33	0.88	0.00	0.00	0.06	0.06	0.00	0.06	0.06	190.79
Worker Trips	0.09	0.07	0.84	0.00	0.00	0.01	0.01	0.00	0.01	0.01	115.47
Phase 3D - Waterproofing, 8/3/12 - 8/7/12, 3 Days											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00
On Road Diesel	0.11	0.96	0.63	0.00	0.00	0.04	0.04	0.00	0.04	0.04	138.02
Worker Trips	0.06	0.05	0.56	0.00	0.00	0.01	0.01	0.00	0.01	0.01	76.98
Phase 4A - Exterior Stucco, 8/3/12 - 8/7/12, 4 Days											
Off Road Diesel	1.54	10.95	6.19	0.02	0.00	0.64	0.64	0.00	0.57	0.57	1,371.30
On Road Diesel	0.77	6.75	4.43	0.01	0.00	0.31	0.31	0.00	0.31	0.31	966.11
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Phase 4B - Interior Build Out, Sub-Basement, 8/3/12 - 8/7/12, 4 Days											
Off Road Diesel	0.78	6.81	3.29	0.01	0.00	0.30	0.30	0.00	0.26	0.26	961.80
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Phase 4C - Interior Build Out, Basement, 8/3/12 - 8/7/12, 4 Days											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Phase 4D - Interior Build Out, First Floor, 8/3/12 - 8/7/12, 4 Days											
Off Road Diesel	0.07	0.39	0.30	0.00	0.00	0.02	0.02	0.00	0.02	0.02	50.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.25	0.20	2.24	0.00	0.00	0.03	0.03	0.00	0.03	0.03	307.92
Phase 4E - Interior Build Out, Second Floor, 8/3/12 - 8/7/12, 4 Days											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Crane	0.77	7.50	2.17	0.01	0.00	0.27	0.27	0.00	0.24	0.24	784.00
Daily Totals	9.86	73.91	49.82	0.11	0.00	7	7	0.00	3.18	3.18	11,704.26
Phase 3B - Fourth Floor Mechanical, 8/8/12 - 8/15/12, 6 Days											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00
On Road Diesel	0.43	3.77	2.48	0.01	0.00	0.17	0.17	0.00	0.17	0.17	539.89
Worker Trips	0.31	0.25	2.80	0.00	0.00	0.03	0.03	0.00	0.03	0.03	384.90
Phase 3C - Windows and Doors, 8/8/12 - 8/15/12, 6 Days											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00
On Road Diesel	0.15	1.33	0.88	0.00	0.00	0.06	0.06	0.00	0.06	0.06	190.79
Worker Trips	0.09	0.07	0.84	0.00	0.00	0.01	0.01	0.00	0.01	0.01	115.47
Phase 3D - Waterproofing, 8/8/12 - 8/15/12, 6 Days											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00
On Road Diesel	0.11	0.96	0.63	0.00	0.00	0.04	0.04	0.00	0.04	0.04	138.02
Worker Trips	0.06	0.05	0.56	0.00	0.00	0.01	0.01	0.00	0.01	0.01	76.98
Phase 4A - Exterior Stucco, 8/8/12 - 8/15/12, 7 Days											
Off Road Diesel	1.54	10.95	6.19	0.02	0.00	0.64	0.64	0.00	0.57	0.57	1,371.30
On Road Diesel	0.77	6.75	4.43	0.01	0.00	0.31	0.31	0.00	0.31	0.31	966.11
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94

Phase 4C - Interior Build Out, Basement, 8/8/12 - 8/15/12, 7 Days											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Phase 4D - Interior Build Out, First Floor, 8/8/12 - 8/15/12, 7 Days											
Off Road Diesel	0.07	0.39	0.30	0.00	0.00	0.02	0.02	0.00	0.02	0.02	50.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.25	0.20	2.24	0.00	0.00	0.03	0.03	0.00	0.03	0.03	307.92
Phase 4E - Interior Build Out, Second Floor, 8/8/12 - 8/15/12, 7 Days											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Crane	0.77	7.50	2.17	0.01	0.00	0.27	0.27	0.00	0.24	0.24	784.00
Daily Totals	8.79	66.10	44.29	0.10	0.00	3.11	3.11	0.00	2.86	2.86	10,389.74
Phase 3B - Fourth Floor Mechanical, 8/16/12 - 8/21/12, 4 Days											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00
On Road Diesel	0.43	3.77	2.48	0.01	0.00	0.17	0.17	0.00	0.17	0.17	539.89
Worker Trips	0.31	0.25	2.80	0.00	0.00	0.03	0.03	0.00	0.03	0.03	384.90
Phase 3C - Windows and Doors, 8/16/12 - 8/21/12, 4 Days											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00
On Road Diesel	0.15	1.33	0.88	0.00	0.00	0.06	0.06	0.00	0.06	0.06	190.79
Worker Trips	0.09	0.07	0.84	0.00	0.00	0.01	0.01	0.00	0.01	0.01	115.47
Phase 3D - Waterproofing, 8/16/12 - 8/21/12, 4 Days											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00
On Road Diesel	0.11	0.96	0.63	0.00	0.00	0.04	0.04	0.00	0.04	0.04	138.02
Worker Trips	0.06	0.05	0.56	0.00	0.00	0.01	0.01	0.00	0.01	0.01	76.98
Phase 3E - Install Trees, 8/16/12 - 8/21/12, 4 Days											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.38	0.29	3.36	0.00	0.00	0.04	0.04	0.00	0.04	0.04	461.89
Phase 4A - Exterior Stucco, 8/16/12 - 8/21/12, 5 Days											
Off Road Diesel	1.54	10.95	6.19	0.02	0.00	0.64	0.64	0.00	0.57	0.57	1,371.30
On Road Diesel	0.77	6.75	4.43	0.01	0.00	0.31	0.31	0.00	0.31	0.31	966.11
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Phase 4C - Interior Build Out, Basement, 8/16/12 - 8/21/12, 5 Days											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Phase 4D - Interior Build Out, First Floor, 8/16/12 - 8/21/12, 5 Days											
Off Road Diesel	0.07	0.39	0.30	0.00	0.00	0.02	0.02	0.00	0.02	0.02	50.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.25	0.20	2.24	0.00	0.00	0.03	0.03	0.00	0.03	0.03	307.92
Phase 4E - Interior Build Out, Second Floor, 8/16/12 - 8/21/12, 5 Days											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Crane	0.77	7.50	2.17	0.01	0.00	0.27	0.27	0.00	0.24	0.24	784.00
Daily Totals	9.92	73.26	50.90	0.11	0.00	3.45	3.45	0.00	3.17	3.17	11,834.41

Phase 3C - Windows and Doors, 8/22/12 - 8/27/12, 4 Days											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00
On Road Diesel	0.15	1.33	0.88	0.00	0.00	0.06	0.06	0.00	0.06	0.06	190.79
Worker Trips	0.09	0.07	0.84	0.00	0.00	0.01	0.01	0.00	0.01	0.01	115.47
Phase 3D - Waterproofing, 8/22/12 - 8/27/12, 4 Days											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00
On Road Diesel	0.11	0.96	0.63	0.00	0.00	0.04	0.04	0.00	0.04	0.04	138.02
Worker Trips	0.06	0.05	0.56	0.00	0.00	0.01	0.01	0.00	0.01	0.01	76.98
Phase 3E - Install Trees, 8/22/12 - 8/27/12, 4 Days											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.38	0.29	3.36	0.00	0.00	0.04	0.04	0.00	0.04	0.04	461.89
Phase 4A - Exterior Stucco, 8/22/12 - 8/27/12, 5 Days											
Off Road Diesel	1.54	10.95	6.19	0.02	0.00	0.64	0.64	0.00	0.57	0.57	1,371.30
On Road Diesel	0.77	6.75	4.43	0.01	0.00	0.31	0.31	0.00	0.31	0.31	966.11
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Phase 4C - Interior Build Out, Basement, 8/22/12 - 8/27/12, 5 Days											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Phase 4D - Interior Build Out, First Floor, 8/22/12 - 8/27/12, 5 Days											
Off Road Diesel	0.07	0.39	0.30	0.00	0.00	0.02	0.02	0.00	0.02	0.02	50.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.25	0.20	2.24	0.00	0.00	0.03	0.03	0.00	0.03	0.03	307.92
Phase 4E - Interior Build Out, Second Floor, 8/22/12 - 8/27/12, 5 Days											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Crane	0.77	7.50	2.17	0.01	0.00	0.27	0.27	0.00	0.24	0.24	784.00
Daily Totals	8.53	63.22	42.93	0.09	0.00	2.99	2.99	0.00	2.74	2.74	10,048.62
Phase 3C - Windows and Doors, 8/28/12, 1 Day											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00
On Road Diesel	0.15	1.33	0.88	0.00	0.00	0.06	0.06	0.00	0.06	0.06	190.79
Worker Trips	0.09	0.07	0.84	0.00	0.00	0.01	0.01	0.00	0.01	0.01	115.47
Phase 4A - Exterior Stucco, 8/28/12, 1 Day											
Off Road Diesel	1.54	10.95	6.19	0.02	0.00	0.64	0.64	0.00	0.57	0.57	1,371.30
On Road Diesel	0.77	6.75	4.43	0.01	0.00	0.31	0.31	0.00	0.31	0.31	966.11
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Phase 4C - Interior Build Out, Basement, 8/28/12, 1 Day											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Phase 4D - Interior Build Out, First Floor, 8/28/12, 1 Day											
Off Road Diesel	0.07	0.39	0.30	0.00	0.00	0.02	0.02	0.00	0.02	0.02	50.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.25	0.20	2.24	0.00	0.00	0.03	0.03	0.00	0.03	0.03	307.92
Phase 4E - Interior Build Out, Second Floor, 8/28/12, 1 Day											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40

On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Crane	0.77	7.50	2.17	0.01	0.00	0.27	0.27	0.00	0.24	0.24	784.00
Daily Totals	6.58	49.03	32.44	0.07	0.00	2.24	2.24	0.00	2.15	2.15	7,527.95
Phase 3C - Windows and Doors, 8/29/12 - 9/7/12, 8 Days											
Off Road Diesel	0.65	6.02	2.69	0.01	0.00	0.26	0.26	0.00	0.23	0.23	861.00
On Road Diesel	0.15	1.33	0.88	0.00	0.00	0.06	0.06	0.00	0.06	0.06	190.79
Worker Trips	0.09	0.07	0.84	0.00	0.00	0.01	0.01	0.00	0.01	0.01	115.47
Phase 4A - Exterior Stucco, 8/29/12 - 9/7/12, 9 Days											
Off Road Diesel	1.54	10.95	6.19	0.02	0.00	0.64	0.64	0.00	0.57	0.57	1,371.30
On Road Diesel	0.77	6.75	4.43	0.01	0.00	0.31	0.31	0.00	0.31	0.31	966.11
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Crane	0.77	7.50	2.17	0.01	0.00	0.27	0.27	0.00	0.24	0.24	784.00
Phase 4D - Interior Build Out, First Floor, 8/29/12 - 9/7/12, 9 Days											
Off Road Diesel	0.07	0.39	0.30	0.00	0.00	0.02	0.02	0.00	0.02	0.02	50.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.25	0.20	2.24	0.00	0.00	0.03	0.03	0.00	0.03	0.03	307.92
Phase 4E - Interior Build Out, Second Floor, 8/29/12 - 9/7/12, 9 Days											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Daily Totals	5.58	41.62	27.21	0.06	0.00	2.00	2.00	0.00	1.84	1.84	6,263.83
Phase 4A - Exterior Stucco, 9/8/12 - 9/30/12, 19 Days											
Off Road Diesel	1.54	10.95	6.19	0.02	0.00	0.64	0.64	0.00	0.57	0.57	1,371.30
On Road Diesel	0.77	6.75	4.43	0.01	0.00	0.31	0.31	0.00	0.31	0.31	966.11
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Crane	0.77	7.50	2.17	0.01	0.00	0.27	0.27	0.00	0.24	0.24	784.00
Phase 4D - Interior Build Out, First Floor, 9/8/12 - 9/30/12, 19 Days											
Off Road Diesel	0.07	0.39	0.30	0.00	0.00	0.02	0.02	0.00	0.02	0.02	50.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.25	0.20	2.24	0.00	0.00	0.03	0.03	0.00	0.03	0.03	307.92
Phase 4E - Interior Build Out, Second Floor, 9/8/12 - 9/30/12, 19 Days											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Interior Paint	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily Totals	6.14	34.20	22.80	0.05	0.00	1.67	1.67	0.00	1.54	1.54	5,096.57
Phase 4A - Exterior Stucco, 10/1/12 - 10/14/12, 12 Days											
Off Road Diesel	1.54	10.95	6.19	0.02	0.00	0.64	0.64	0.00	0.57	0.57	1,371.30
On Road Diesel	0.77	6.75	4.43	0.01	0.00	0.31	0.31	0.00	0.31	0.31	966.11
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Crane	0.77	7.50	2.17	0.01	0.00	0.27	0.27	0.00	0.24	0.24	784.00
Phase 4D - Interior Build Out, First Floor, 10/1/12 - 10/14/12, 12 Days											
Off Road Diesel	0.07	0.39	0.30	0.00	0.00	0.02	0.02	0.00	0.02	0.02	50.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.25	0.20	2.24	0.00	0.00	0.03	0.03	0.00	0.03	0.03	307.92
Phase 4E - Interior Build Out, Second Floor, 10/1/12 - 10/14/12, 12 Days											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40

On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Interior Paint	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exterior Paint	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily Totals	6.64	34.20	22.80	0.05	0.00	1.67	1.67	0.00	1.54	1.54	5,096.57
Phase 4A - Exterior Stucco, 10/15/12 - 11/3/12, 18 Days											
Off Road Diesel	1.54	10.95	6.19	0.02	0.00	0.64	0.64	0.00	0.57	0.57	1,371.30
On Road Diesel	0.77	6.75	4.43	0.01	0.00	0.31	0.31	0.00	0.31	0.31	966.11
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Crane	0.77	7.50	2.17	0.01	0.00	0.27	0.27	0.00	0.24	0.24	784.00
Phase 4D - Interior Build Out, First Floor, 10/15/12 - 11/3/12, 18 Days											
Off Road Diesel	0.07	0.39	0.30	0.00	0.00	0.02	0.02	0.00	0.02	0.02	50.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.25	0.20	2.24	0.00	0.00	0.03	0.03	0.00	0.03	0.03	307.92
Phase 4E - Interior Build Out, Second Floor, 10/15/12 - 11/3/12, 18 Days											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Phase 4F - Interior Build Out, Third and Fourth Floor, 10/15/12 - 11/3/12, 18 Days											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.25	0.20	2.24	0.00	0.00	0.03	0.03	0.00	0.03	0.03	307.92
Interior Paint	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exterior Paint	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily Totals	7.70	41.66	28.59	0.06	0.00	2.02	2.02	0.00	1.86	1.86	6,437.67
Phase 4D - Interior Build Out, First Floor, 11/4/12 - 11/5/12, 1 Day											
Off Road Diesel	0.07	0.39	0.30	0.00	0.00	0.02	0.02	0.00	0.02	0.02	50.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.25	0.20	2.24	0.00	0.00	0.03	0.03	0.00	0.03	0.03	307.92
Crane	0.77	7.50	2.17	0.01	0.00	0.27	0.27	0.00	0.24	0.24	784.00
Phase 4E - Interior Build Out, Second Floor, 11/4/12 - 11/5/12, 1 Day											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94
Phase 4F - Interior Build Out, Third and Fourth Floor, 11/4/12 - 11/5/12, 1 Day											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.25	0.20	2.24	0.00	0.00	0.03	0.03	0.00	0.03	0.03	307.92
Phase 4G - Hardscape and Landscape, 11/4/12 - 11/5/12, 1 Day											
Off Road Diesel	0.07	0.45	0.34	0.00	0.00	0.02	0.02	0.00	0.02	0.02	57.60
On Road Diesel	0.19	1.70	1.12	0.00	0.00	0.08	0.08	0.00	0.08	0.08	243.56
Worker Trips	0.38	0.29	3.36	0.00	0.00	0.04	0.04	0.00	0.04	0.04	461.89
Interior Paint	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily Totals	5.34	26.25	21.11	0.03	0.00	1.19	1.19	0.00	1.10	1.10	4,632.37
Phase 4E - Interior Build Out, Second Floor, 11/6/12 - 12/28/12, 45 Days											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.19	0.15	1.68	0.00	0.00	0.02	0.02	0.00	0.02	0.02	230.94

Phase 4F – Interior Build Out, Third and Fourth Floor, 11/6/12 - 12/28/12, 45 Days											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.25	0.20	2.24	0.00	0.00	0.03	0.03	0.00	0.03	0.03	307.92
Interior Paint	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 4G - Hardscape and Landscape, 11/6/12 - 12/28/12, 45 Days											
Off Road Diesel	0.07	0.45	0.34	0.00	0.00	0.02	0.02	0.00	0.02	0.02	57.60
On Road Diesel	0.19	1.70	1.12	0.00	0.00	0.08	0.08	0.00	0.08	0.08	243.56
Worker Trips	0.38	0.29	3.36	0.00	0.00	0.04	0.04	0.00	0.04	0.04	461.89
Crane	0.77	7.50	2.17	0.01	0.00	0.27	0.27	0.00	0.24	0.24	784.00
Daily Totals	4.92	24.81	18.01	0.03	0.00	1.10	1.10	0.00	1.01	1.01	4,152.27
Phase 4F – Interior Build Out, Third and Fourth Floor, 12/29/12 - 12/31/12, 2 Days											
Off Road Diesel	0.71	6.41	2.99	0.01	0.00	0.28	0.28	0.00	0.25	0.25	911.40
On Road Diesel	0.10	0.85	0.56	0.00	0.00	0.04	0.04	0.00	0.04	0.04	121.78
Worker Trips	0.25	0.20	2.24	0.00	0.00	0.03	0.03	0.00	0.03	0.03	307.92
Interior Paint	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 4G - Hardscape and Landscape, 12/29/12 - 12/31/12, 2 Days											
Off Road Diesel	0.07	0.45	0.34	0.00	0.00	0.02	0.02	0.00	0.02	0.02	57.60
On Road Diesel	0.19	1.70	1.12	0.00	0.00	0.08	0.08	0.00	0.08	0.08	243.56
Worker Trips	0.38	0.29	3.36	0.00	0.00	0.04	0.04	0.00	0.04	0.04	461.89
Crane	0.77	7.50	2.17	0.01	0.00	0.27	0.27	0.00	0.24	0.24	784.00
Daily Totals	3.92	17.40	12.78	0.02	0.00	0.76	0.76	0.00	0.70	0.70	2,888.15
Phase 4FF - Interior Build Out, Third and Fourth Floor, 1/1/13 - 1/25/13, 21 Days											
Off Road Diesel	0.67	5.95	2.93	0.01	0.00	0.25	0.25	0.00	0.22	0.22	911.40
On Road Diesel	0.09	0.76	0.50	0.00	0.00	0.03	0.03	0.00	0.03	0.03	121.98
Worker Trips	0.24	0.18	2.07	0.00	0.00	0.03	0.03	0.00	0.03	0.03	307.62
Interior Paint	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 4GG - Hardscape and Landscape, 11/1/13 - 1/25/13, 21 Days											
Off Road Diesel	0.07	0.44	0.34	0.00	0.00	0.02	0.02	0.00	0.02	0.02	57.60
On Road Diesel	0.17	1.52	1.00	0.00	0.00	0.07	0.07	0.00	0.07	0.07	243.96
Worker Trips	0.35	0.27	3.11	0.00	0.00	0.04	0.04	0.00	0.04	0.04	461.43
Crane	0.77	7.50	2.17	0.01	0.00	0.27	0.27	0.00	0.24	0.24	784.00
Daily Totals	3.81	16.62	12.12	0.02	0.00	0.71	0.71	0.00	0.65	0.65	2,887.99
Phase 4FF - Interior Build Out, Third and Fourth Floor, 1/26/13 - 3/20/13, 46 Days											
Off Road Diesel	0.67	5.95	2.93	0.01	0.00	0.25	0.25	0.00	0.22	0.22	911.40
On Road Diesel	0.09	0.76	0.50	0.00	0.00	0.03	0.03	0.00	0.03	0.03	121.98
Worker Trips	0.24	0.18	2.07	0.00	0.00	0.03	0.03	0.00	0.03	0.03	307.62
Phase 4GG - Hardscape and Landscape, 1/26/13 - 3/20/13, 46 Days											
Off Road Diesel	0.07	0.44	0.34	0.00	0.00	0.02	0.02	0.00	0.02	0.02	57.60
On Road Diesel	0.17	1.52	1.00	0.00	0.00	0.07	0.07	0.00	0.07	0.07	243.96
Worker Trips	0.35	0.27	3.11	0.00	0.00	0.04	0.04	0.00	0.04	0.04	461.43
Crane	0.77	7.50	2.17	0.01	0.00	0.27	0.27	0.00	0.24	0.24	784.00
Daily Totals	2.36	16.62	12.12	0.02	0.00	0.71	0.71	0.00	0.65	0.65	2,887.99
SCAQMD Threshold	75	100	550	150	→	→	150	→	→	55	NT ³
Exceeds Threshold?	No	No	No	No	→	→	No	→	→	No	No

¹ Includes a 55 percent reduction for Rule 403 water spray.

² From this point forward the crane is called out as a separate entity with one used on a daily basis regardless of

other on-site equipment. In prior phases the crane was included with the off-road equipment as appropriate.
³ NT – No Threshold.

3.2.2 Site Operations

Less Than Significant Impact. The major source of long-term air quality impacts is that associated with the emissions produced from project-generated vehicle trips. Stationary sources add only minimally to these values.

Mobile Source Emissions

The occupation of the site is based on the URBEMIS2007 model. The URBEMIS default value for condominiums is 5.86 vehicle trips per unit. In accordance with the *ITE Trip Generation Manual*, these values can range from 1.83 to 11.79 trips per unit. Based on the size of the proposed units, as a worst-case scenario this analysis uses a trip rate of 11.79 trips per unit per day and the project is estimated to result in 94 average daily trips (ADT). In actuality, the project is to replace a 14-unit apartment complex, so the actual number of *new trips* would be less than this value, (and there could even be a reduction in the number of daily trips). As such, the analysis presents a worst-case scenario. The calculated emissions of the project are compared to thresholds of significance for individual projects using the SCAQMD *Handbook* and Internet web site updates. The *Handbook* recommends assessing emissions of reactive organic compounds (ROC or ROG) as an indicator of ozone.

Emissions are based on a year 2013 occupancy. Both summer and winter scenarios were modeled and the higher of the two values are included in Table 2. Note that all values are within their respective threshold values and the impact is less than significant. Model runs are included in the Appendix.

Stationary Source Emissions

In addition to vehicle trips, the proposed land uses would produce emissions from on-site sources. The combustion of natural gas for heating the structures and water would occur. Landscaping would be maintained requiring the use of gardening equipment and their attendant emissions. Additionally, the structures would be maintained and this requires repainting over time resulting in the release of VOC emissions. The resultant emissions are projected by the URBEMIS2007 computer model and included in Table 2. Again, note that all emissions are below their respective threshold values and the impact is less than significant.

Table 2
Daily Operational Emissions (Pounds/Day)

<i>Source</i>	<i>ROG</i>	<i>NO_x</i>	<i>CO</i>	<i>SO₂</i>	<i>PM₁₀</i>	<i>PM_{2.5}</i>	<i>CO₂</i>
Mobile Sources	0.47	0.64	5.43	0.01	1.19	0.23	673.48 ¹
Natural Gas	0.01	0.08	0.03	0.00	0.00	0.00	100.13
Landscape Maintenance	0.12	0.02	1.55	0.00	0.01	0.01	2.81
Consumer Products	0.41	---	---	---	---	---	---
Structural Maintenance	0.01	---	---	---	---	---	---
Operational Total	1.02	0.74	7.01	0.01	1.20	0.24	776.42
Threshold	55	55	550	150	150	55	NT ²
Exceeds Threshold?	No	No	No	No	No	No	No

¹ Averaged from the summer and winter emissions.

² NT – No Threshold.

3.3 *Project Potential to Result in a Cumulatively Considerable Increase in Criteria Pollutants*

3.3.1 *Criteria Pollutants*

Less Than Significant Impact. In accordance with SCAQMD methodology, any project that does not exceed or can be mitigated to less than the daily threshold values does not add significantly to a cumulative impact. The project is of a size such that it does not result in daily emissions above either the construction or operational threshold values suggested by the SCAQMD and as such, the project does not add significantly to a cumulative impact.

3.3.2 *Greenhouse Gas Emissions*

No Established Threshold. At this time, greenhouse gases are not regulated as a criteria pollutant and there are no significance criteria for these emissions. Furthermore, the Final 2007 AQMP does not set CEQA targets that can be used to determine any potential threshold values. Nevertheless, in order to provide decision-makers with as much information as possible, this analysis quantifies, to the extent feasible, potential greenhouse gas emissions associated with the proposed development.

Construction

Construction activities would consume fuel and result in the generation of greenhouse gases. Construction CO₂ emissions are included in Table 1, above. In accordance with the projected construction schedule, approximately 4,335,633 pounds (2,168 tons) of CO₂ would be produced over the active construction period.

Site Operations

In the case of site operations, the majority of greenhouse gas emissions, and specifically CO₂, is due to vehicle travel and energy consumption. As indicated in Table 2, the URBEMIS2007 model projects that on average 776.42 pounds (0.4 ton) of CO₂ would be produced daily or about 283,393 pounds (142 tons) per year. These emissions include mobile sources, the combustion of natural gas for space and water heating, and the use of landscape maintenance equipment.

The generation of electricity also creates GHG emissions. Electricity used in the SCAB comes from within local areas, the State, and other states. There is no way to determine the point of origin for these emissions and as such, these emissions are not quantified by the URBEMIS model, nor are they typically included in CEQA analyses. However, because GHG are of concern at the *global level*, and the generation of this electricity could add to global CO₂, the CO₂ that is attributable to the generation of electrical power was also quantified as feasible.

The *Handbook* includes estimates of electrical usage by land use while the *Source Inventory of Bay Area Greenhouse Gas Emissions* (November 2006) provides CO₂ estimates from the generation of electricity. Based Table A9-11-A of the SCAQMD *Handbook*, each of the eight units would consume about 5,626.50 kilowatts per year. The eight units combined would then use 45,012 kilowatt-hours per year and the generation of this electricity will result in about 14 tons of CO₂ per year. All told, the project then generates about 156 tons of CO₂ per year. Electrical use and its emissions calculations are included in the appendix.

In accordance with the 2007 AQMP, the emission levels in California are estimated to be 473 million metric tons (521.4 million short tons) CO₂ equivalent for 2000 and 532 million metric tons (568.4 short tons) CO₂ equivalent for 2010. At approximately 156 tons per year, the project operations represent less than 0.00003 percent of this State's annual 2010 CO₂ emissions' budget (and would represent an even smaller percentage of the 2013 CO₂ budget).

Recognizing that there is a great amount of public concern regarding GHGs, the majority of the information given above is for disclosure purposes as required by CEQA. There is no agreement among air quality experts, or guidance at the State level, regarding the level at which an individual project's incremental GHG effect is

cumulatively considerable. Given the emerging level of experience within the air quality industry with GHG analyses, coupled with the fact that the policies implementing the state goal of reducing greenhouse gas emissions in California to 1990 levels by 2020, as set forth by the timetable established in AB 32, California Global Warming Solutions Act of 2006 have not been adequately defined, there is no way to state with reasonable scientific certainty that the project would conflict with these policies.

3.4 Project Potential to Expose Sensitive Receptors to Substantial Pollutant Concentrations

3.4.1 Short-Term Localized Impacts

Less Than Significant With Mitigation. In addition to the mass daily threshold standards, project construction has the potential to raise localized ambient pollutant concentrations. This could present a significant impact if these concentrations were to exceed the State ambient air quality standards at receptor locations.

The SCAQMD has developed screening tables for the construction of projects up to five acres in size. These tables are included in *Sample Construction Scenarios for Projects Less than Five Acres in Size* (February 2005) (*Sample Construction Scenarios*). The emissions values included in the screening tables are based on the emissions produced at the site and do not include mobile source emissions (i.e., trucks and worker vehicles) that are spread over a much larger area. The Aerie residential project site consists of about 1.4 acres so fits within the *Sample Construction Scenarios*.

Screening level allowable daily emissions are then calculated from the “mass-rate look-up tables” included in Appendix L of the *Sample Construction Scenarios*. The project borders on Source Receptor Areas (SRA) 18 and 20. In accordance with Appendix L of *Sample Construction Scenarios*, projects of 1.4 acres in size located in either SRA 18 (North Coastal Orange County) or SRA 20 (Central Orange County Coastal) would not create significant localized emissions impacts if CO, NO_x, PM₁₀, and PM_{2.5} levels do not exceed 392.2, 185.2, 5.2, and 5.2 pounds per day, respectively. According to Table 1, peak day CO and NO_x levels are projected at 50.90 and 87.02 pounds per day, respectively, including both on-site equipment *and* off-site mobile sources. On-site values are well under the screening table limits and the localized impact of these two pollutants is less than significant.

The highest levels of PM₁₀ and PM_{2.5} are produced during the initial demolition phase with the majority of these emissions due to fugitive dust. These activities are estimated to result in 5.94 pounds of PM₁₀ and 1.75 pounds of PM_{2.5} per day produced from on-site sources, including both equipment exhaust and fugitive dust. These values include a dust suppression control efficiency of 55 percent as based on requirements of SCAQMD Rule 403. While the value for PM_{2.5}, is under the screening threshold and less than significant, the PM₁₀ value exceeds it slightly. All other on-site construction phases and activities are projected to remain within the PM₁₀ 5.2 pounds-per-day screening threshold and would not result in localized impacts.

Mitigation

The following measure shall be implemented as mitigation.

- Site and debris watering shall be performed a minimum of three times (rather than twice) daily during all demolition activities.

Residual Impact

The URBEMIS Model indicates that three-times, rather than twice-daily watering, would improve the dust control efficiency to a minimum of 65 percent (rather than 55 percent). This action would reduce PM₁₀ associated with fugitive dust from 5.20 pounds per day to 4.04 pounds per day. When combined with PM₁₀ from on-site equipment, daily on-site PM₁₀ emissions are reduced to 4.78 pounds per day. This value is under the screening threshold of 5.2 pounds per day and the impact is reduced to less than significant.

3.4.2 Long-Term Localized Impacts

Off-Site Localized Emissions

Less Than Significant Impact. Long-term emissions also have the potential to exceed ambient air quality standards. Because operational emissions are mostly the product vehicle travel, these impacts are typically produced along the roadways. Because CO is produced in greatest quantities from vehicle combustion and does not readily disperse into the atmosphere; adherence to ambient air quality standards is typically demonstrated through an analysis of localized CO concentrations. Areas of vehicle congestion that have the potential to create “pockets” of CO called “hot spots.” These hot spots typically occur at intersections where vehicle speeds are reduced and idle time is increased.

As noted above, as a worst-case scenario, this analysis uses a trip rate of 11.79 trips per unit per day and the project is estimated to result in 94 average daily trips (ADT). Based on the EMFAC2007 computer model, the peak traffic hour in Orange County includes 7.7 percent of the daily vehicle miles traveled. Assuming that the vehicles associated with the Aerie project follow a similar pattern, approximately seven vehicle trips would occur during the peak hour. This value is too small to add measurably to the CO emissions concentrations at any local intersections.

3.4.3 Other Toxics Impacts

Less Than Significant Impact. The project site contains existing structures that would be removed during the first phase of construction. Based on the type and age of structures to be removed, asbestos containing materials (ACM), which could include floor tiles and mastics, gypsum wallboard and joint compound, base cove mastic, carpet glue, thermal system insulation, spray-applied fireproofing ceiling plaster, and roofing mastics, felts and flashing would be removed. Additionally, lead-based paint would be removed.

Demolition and renovation activities that involve ACM are strictly regulated under SCAQMD Rule 1403 (Asbestos Emissions from Demolition/Renovation Activities) adopted on October 8, 1989 and amended April 8, 1994. The purpose of this rule is to specify work practice requirements to limit asbestos emissions from building demolition and renovation activities, including the removal and associated disturbance of ACM. The requirements for demolition and renovation activities include asbestos surveying, notification, ACM removal procedures and time schedules, ACM handling and clean-up procedures, and storage, disposal and landfilling requirements for asbestos-containing waste materials (ACWM). All operators are required to maintain records, including waste shipment records, and are required to use appropriate warning labels, signs, and markings.

Any demolition work involving asbestos-containing material must be identified and potential emissions of asbestos determined. Any building to be demolished or renovation that involves asbestos-containing material would be subject to provisions related to the following tasks:

- Asbestos surveying (inspection, identification, quantification) to be conducted by a qualified environmental laboratory, and
- SCAQMD notification to include project description, removal procedures and time schedules (options provided in Rule), material handling and clean-up, material storage and disposal methods.

All handling and removal of ACM must be performed by a certified California State licensed contractor that has been certified under the California Occupational Safety and Health Administration (Cal OSHA). All workers must undergo 40 hours of hazardous materials handling training and receive 8 hours of refresher training on a yearly basis.

Similarly, lead paint is as a toxic material and its removal is regulated as such. Like asbestos removal, workers are trained and certified in the handling of these materials.

Where necessary, actual asbestos and lead paint removal would be accomplished under a negative pressure environment with high efficiency particulate air (HEPA) filtration, through the use of a glove bag or through adequate wetting. These materials are to be contained in certified leak-proof containers and the general public is not allowed access to the demolition-site.

Mandatory compliance with notification and removal processes identified in the SCAQMD Rules and Regulations would ensure that any potential impacts remain below a level considered significant.

3.5 Project Potential to Create Objectionable Odors

Less Than Significant Impact. Project construction would involve the use of heavy equipment creating exhaust pollutants from on-site earth movement and from equipment bringing concrete and other building materials to the site. With regards to nuisance odors, any air quality impacts will be confined to the immediate vicinity of the equipment itself. By the time such emissions reach any sensitive receptor sites away from the project site, they will be diluted to well below any level of air quality concern. An occasional “whiff” of diesel exhaust from passing equipment and trucks accessing the site from public roadways may result. Such brief exhaust odors are an adverse, but not significant, air quality impact.

Operational odors could be produced from on-site food preparation. Again, these odors are common in the environment and would not constitute a significant impact. Nuisance odors would be subject to SCAQMD Rule 402, Nuisance.

4.0 References

Bay Area Air Quality Management District, *Source Inventory of Bay Area Greenhouse Gas Emissions*, November 2006

California Air Resources Board, EMFAC2007 Computer Model, Version 2.3, November 1, 2006

California Air Resources Board, URBEMIS2007 Computer Model, Version 9.4.2, February 2008

South Coast Air Quality Management District, *Final 2007 AQMP*, June 1, 2007

South Coast Air Quality Management District, *Final Localized Significance Threshold Methodology*, June 2003

South Coast Air Quality Management District, (Internet Web Site) *Off-Road Mobile Source Emissions Factors, 2007 - 2025*, No Date

South Coast Air Quality Management District, *Rules and Regulations*, January 1993

South Coast Air Quality Management District, *Sample Construction Scenarios for Projects Less than Five Acres in Size*, February 2005

South Coast Air Quality Management District, *SCAQMD CEQA Air Quality Handbook*, April 1993

APPENDIX A
CONSTRUCTION EMISSIONS BY PHASE

Phase 1A - Demolition, 8/10/10 - 8/17/10

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Backhoe (120 hp)	1	2	0.3623	0.5664	0.0515	0.0006	0.0910
Excavator (250 hp)	1	7	0.3934	1.4935	0.0519	0.0018	0.1451
Loader (189 hp)	1	5	0.5537	1.0737	0.0555	0.0012	0.1254

Trucks, Heavy Diesel ¹	Days	Loads/Day	Distance	Daily Mi
Demo of Building	6	10	59	590

Worker Vehicles ²	#/Day	Distance	Daily Mi
Vehicles <5,151 lbs	8	20	160

Demolition Dust	Lb/cu ft	sq ft	cu ft	# days	Lb/day	Rule 403 %	Daily PM10
	0.00042	16493	164,930.0000	6	11.5451	55	5.1953

1 Based on Year 2010 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2010 autos and light trucks <5,151 lb

		Emissions in Pounds per Day						
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0458	51.7000	0.7246	1.1328	0.1030	0.0012	0.1820	0.0917	103.4000
0.0462	159.0000	2.7538	10.4545	0.3633	0.0126	1.0157	0.3233	1,113.0000
0.0494	114.2533	2.7685	5.3685	0.2775	0.0060	0.6270	0.2470	571.2665
	Totals	6.2469	16.9558	0.7438	0.0198	1.8247	0.6620	1,787.6665

Truck Emissions in Pounds per Mile						
CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.022500	0.034684	0.001553	0.000049	0.003859	0.0015	4.0049

Truck Emissions in Pounds per Day						
CO	NOx	PM10	SOx	VOC	PM2.5	CO2
13.2750	20.4638	0.9165	0.0286	2.2769	0.9073	2,362.8910

Worker Emissions in Pounds per Mile						
CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.008152	0.000729	0.000084	0.000009	0.000894	0.0001	0.9574

Daily PM2.5
1.0910

Worker Emissions in Pounds per Day						
CO	NOx	PM10	SOx	VOC	PM2.5	CO2
1.3043	0.1167	0.0134	0.0015	0.1430	0.0132	153.1840

Total Emissions in Pounds per Day						
CO	NOx	PM10	SOx	VOC	PM2.5	CO2
20.8262	37.5363	6.8690	0.0499	4.2447	2.6736	4,303.7415

Thresholds in Pounds per Day						
CO	NOx	PM10	SOx	VOC	PM2.5	CO2
550	100	150	150	75	55	NT

Phase 1B - Caisson Installation, 8/18/10 - 9/3/10

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Compressor	1	4	0.3613	0.732	0.0526	0.0007	0.112
Backhoe (120 hp)	1	3	0.3623	0.5664	0.0515	0.0006	0.0910
Concrete Mixer	6	3	0.0434	0.0599	0.0035	0.0001	0.0101
Crane (250 hp)	1	4	0.3464	1.2372	0.0470	0.0013	0.1243
Drill Rig	2	6	0.5146	1.1331	0.0498	0.0017	0.1052
Excavator (250 hp)	0	0	0.3934	1.4935	0.0519	0.0018	0.1451
Loader (189 hp)	0	0	0.5537	1.0737	0.0555	0.0012	0.1254
Pumper	1	4	0.3096	0.5545	0.0393	0.0006	0.0936

Trucks, Heavy Diesel ¹	Days	Loads/Day	Distance	Daily Mi
Cement	13	9	19	171
Rebar	8	2	29	58
			Total	229

Worker Vehicles ²	#/Day	Distance	Daily Mi
Vehicles <5,151 lbs	8	20	160

1 Based on Year 2010 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2010 autos and light trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0468	63.6	1.4452	2.9280	0.2104	0.0028	0.4480	0.1873	254.4000
0.0458	51.7000	1.0869	1.6992	0.1545	0.0018	0.2730	0.1375	155.1000
0.0031	7.2000	0.7812	1.0782	0.0630	0.0018	0.1818	0.0561	129.6000
0.0418	112.0000	1.3856	4.9488	0.1880	0.0052	0.4972	0.1673	448.0000
0.0443	165.0000	6.1752	13.5972	0.5976	0.0204	1.2624	0.5319	1,980.0000
0.0462	159.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0494	114.2533	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0350	49.6000	1.2384	2.2180	0.1572	0.0024	0.3744	0.1399	198.4000
Totals		12.1125	26.4694	1.3707	0.0344	3.0368	1.2199	3,165.5000

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.022500	0.034684	0.001553	0.000049	0.003859	0.0015	4.0049

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
5.1525	7.9427	0.3557	0.0111	0.8838	0.3522	917.1221

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.008152	0.000729	0.000084	0.000009	0.000894	0.0001	0.9574

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
1.3043	0.1167	0.0134	0.0015	0.1430	0.0132	153.1840

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
18.5693	34.5288	1.7398	0.0470	4.0636	1.5853	4,235.8061

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
-----	-----	-----	-----	----	----	----

Phase 1C - Excavation and Lagging Installation, 9/7/10 - 11/2/10

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Compressor	0	0	0.3613	0.732	0.0526	0.0007	0.112
Backhoe (120 hp)	0	0	0.3623	0.5664	0.0515	0.0006	0.0910
Concrete Mixer	0	0	0.0434	0.0599	0.0035	0.0001	0.0101
Crane (250 hp)	1	1	0.3464	1.2372	0.0470	0.0013	0.1243
Dozer (305 hp)	1	7	0.5018	1.8078	0.0624	0.0023	0.1422
Drill Rig	0	0	0.5146	1.1331	0.0498	0.0017	0.1052
Excavator (250 hp)	1	7	0.3934	1.4935	0.0519	0.0018	0.1451
Loader (189 hp)	1	4	0.5537	1.0737	0.0555	0.0012	0.1254
Pumper	0	0	0.3096	0.5545	0.0393	0.0006	0.0936

Trucks, Heavy Diesel1	Days	Loads/Day	Distance	Daily Mi
Dump Trucks	41	27	59	1593

Worker Vehicles2	#/Day	Distance	Daily Mi
Vehicles <5,151 lbs	16	20	320

Fugitive Dust	Lb/acre	Total Acres	Daily Acres	Rule 403 % Daily	PM10	Daily PM2.5
	20	1.4	0.3500	55	3.1500	0.6615

1 Based on Year 2010 Heavy Heavy Diesels >30,000 lb
 2 Based on a composite of Year 2010 autos and light trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0468	63.6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0458	51.7000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0031	7.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0418	112.0000	0.3464	1.2372	0.0470	0.0013	0.1243	0.0418	112.0000
0.0555	210.0600	3.5126	12.6546	0.4368	0.0161	0.9954	0.3888	1,470.4200
0.0443	165.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0462	159.0000	2.7538	10.4545	0.3633	0.0126	1.0157	0.3233	1,113.0000
0.0494	114.2533	2.2148	4.2948	0.2220	0.0048	0.5016	0.1976	457.0132
0.0350	49.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Totals	8.8276	28.6411	1.0691	0.0348	2.6370	0.9515	3,152.4332

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.022500	0.034684	0.001553	0.000049	0.003859	0.0015	4.0049

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
35.8425	55.2524	2.4746	0.0773	6.1477	2.4498	6,379.8057

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.008152	0.000729	0.000084	0.000009	0.000894	0.0001	0.9574

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
2.6087	0.2334	0.0267	0.0029	0.2861	0.0265	306.3680

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
47.2788	84.1269	6.7204	0.1151	9.0708	4.0893	9,838.6069

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
-----	-----	-----	-----	----	----	----

Phase 1D - Caisson Installation, 11/3/10 - 11/10/10

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Compressor	1	4	0.3613	0.732	0.0526	0.0007	0.112
Backhoe (120 hp)	1	2	0.3623	0.5664	0.0515	0.0006	0.0910
Concrete Mixer	6	1	0.0434	0.0599	0.0035	0.0001	0.0101
Crane (250 hp)	1	1	0.3464	1.2372	0.0470	0.0013	0.1243
Dozer (305 hp)	0	0	0.5018	1.8078	0.0624	0.0023	0.1422
Drill Rig	2	6	0.5146	1.1331	0.0498	0.0017	0.1052
Excavator (250 hp)	0	0	0.3934	1.4935	0.0519	0.0018	0.1451
Loader (189 hp)	0	0	0.5537	1.0737	0.0555	0.0012	0.1254
Pumper	1	2	0.3096	0.5545	0.0393	0.0006	0.0936

Trucks, Heavy Diesel1	Days	Loads/Day	Distance	Daily Mi
Cement Trucks	6	12	19	228
Rebar	2	2	29	58
			Totl	286

Worker Vehicles2	#/Day	Distance	Daily Mi
Vehicles <5,151 lbs	16	20	320

1 Based on Year 2010 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2010 autos and light trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0468	63.6	1.4452	2.9280	0.2104	0.0028	0.4480	0.1873	254.4000
0.0458	51.7000	0.7246	1.1328	0.1030	0.0012	0.1820	0.0917	103.4000
0.0031	7.2000	0.2604	0.3594	0.0210	0.0006	0.0606	0.0187	43.2000
0.0418	112.0000	0.3464	1.2372	0.0470	0.0013	0.1243	0.0418	112.0000
0.0555	210.0600	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0443	165.0000	6.1752	13.5972	0.5976	0.0204	1.2624	0.5319	1,980.0000
0.0462	159.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0494	114.2533	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0350	49.6000	0.6192	1.1090	0.0786	0.0012	0.1872	0.0700	99.2000
	Totals	9.5710	20.3636	1.0576	0.0275	2.2645	0.9413	2,592.2000

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.022500	0.034684	0.001553	0.000049	0.003859	0.0015	4.0049

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
6.4350	9.9198	0.4443	0.0139	1.1037	0.4398	1,145.4014

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.008152	0.000729	0.000084	0.000009	0.000894	0.0001	0.9574

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
2.6087	0.2334	0.0267	0.0029	0.2861	0.0265	306.3680

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
18.6147	30.5168	1.5286	0.0443	3.6543	1.4076	4,043.9694

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
-----	-----	-----	-----	----	----	----

Phase 1E - Excavation and Lagging Installation, 11/11/10 - 12/9/10

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Compressor	0	0	0.3613	0.732	0.0526	0.0007	0.112
Backhoe (120 hp)	0	0	0.3623	0.5664	0.0515	0.0006	0.0910
Concrete Mixer	0	0	0.0434	0.0599	0.0035	0.0001	0.0101
Crane (250 hp)	1	1	0.3464	1.2372	0.0470	0.0013	0.1243
Dozer (305 hp)	1	7	0.5018	1.8078	0.0624	0.0023	0.1422
Drill Rig	0	0	0.5146	1.1331	0.0498	0.0017	0.1052
Excavator (250 hp)	1	7	0.3934	1.4935	0.0519	0.0018	0.1451
Loader (189 hp)	1	4	0.5537	1.0737	0.0555	0.0012	0.1254
Pumper	0	0	0.3096	0.5545	0.0393	0.0006	0.0936
Ram Hoe	1	1	0.3930	0.6747	0.0521	0.0008	0.1021

Trucks, Heavy Diesel ¹	Days	Loads/Day	Distance	Daily Mi
Dump Trucks	21	28	59	1652

Worker Vehicles ²	#/Day	Distance	Daily Mi
Vehicles <5,151 lbs	16	20	320

Fugitive Dust	Lb/acre	Total Acres	Daily Acres	Rule 403 %	Daily PM10	Daily PM2.5
	20	1.4	0.3500	55	3.1500	0.6615

1 Based on Year 2010 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2010 autos and light trucks <5,151 lb

Emissions in Pounds per Day

PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0468	63.6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0458	51.7000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0031	7.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0418	112.0000	0.3464	1.2372	0.0470	0.0013	0.1243	0.0418	112.0000
0.0555	210.0600	3.5126	12.6546	0.4368	0.0161	0.9954	0.3888	1,470.4200
0.0443	165.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0462	159.0000	2.7538	10.4545	0.3633	0.0126	1.0157	0.3233	1,113.0000
0.0494	114.2533	2.2148	4.2948	0.2220	0.0048	0.5016	0.1976	457.0132
0.0350	49.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0464	66.8000	0.3930	0.6747	0.0521	0.0008	0.1021	0.0464	66.8000
	Totals	9.2206	29.3158	1.1212	0.0356	2.7391	0.9979	3,219.2332

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.022500	0.034684	0.001553	0.000049	0.003859	0.0015	4.0049

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
37.1700	57.2987	2.5662	0.0802	6.3754	2.5406	6,616.0948

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.008152	0.000729	0.000084	0.000009	0.000894	0.0001	0.9574

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
2.6087	0.2334	0.0267	0.0029	0.2861	0.0265	306.3680

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
48.9993	86.8479	6.8641	0.1187	9.4006	4.2264	10,141.6960

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
-----	-----	-----	-----	----	----	----

Phase 1F - Bracing Installation, 12/10/10 - 12/20/10

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Compressor	0	0	0.3613	0.732	0.0526	0.0007	0.112
Backhoe (120 hp)	1	2	0.3623	0.5664	0.0515	0.0006	0.0910
Concrete Mixer	1	1	0.0434	0.0599	0.0035	0.0001	0.0101
Crane (250 hp)	1	6	0.3464	1.2372	0.0470	0.0013	0.1243
Dozer (305 hp)	0	0	0.5018	1.8078	0.0624	0.0023	0.1422
Drill Rig	0	0	0.5146	1.1331	0.0498	0.0017	0.1052
Excavator (250 hp)	1	7	0.3934	1.4935	0.0519	0.0018	0.1451
Loader (189 hp)	0	0	0.5537	1.0737	0.0555	0.0012	0.1254
Pumper	1	1	0.3096	0.5545	0.0393	0.0006	0.0936
Ram Hoe	0	0	0.3930	0.6747	0.0521	0.0008	0.1021
Welder	1	6	0.2246	0.2920	0.0270	0.0003	0.0805

Trucks, Heavy Diesel ¹	Days	Loads/Day	Distance	Daily Mi
Cement Trucks	2	4	19	76
Waler	4	2	29	58
				134

Worker Vehicles ²	#/Day	Distance	Daily Mi
Vehicles <5,151 lbs	16	20	320

Fugitive Dust	Lb/acre	Total Acres	Daily Acres	Rule 403 % Daily	PM10	Daily PM2.5
	20	1.4	0.3500	55	3.1500	0.6615

1 Based on Year 2010 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2010 autos and light trucks <5,151 lb

Emissions in Pounds per Day

PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0468	63.6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0458	51.7000	0.7246	1.1328	0.1030	0.0012	0.1820	0.0917	103.4000
0.0031	7.2000	0.0434	0.0599	0.0035	0.0001	0.0101	0.0031	7.2000
0.0418	112.0000	2.0784	7.4232	0.2820	0.0078	0.7458	0.2510	672.0000
0.0555	210.0600	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0443	165.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0462	159.0000	2.7538	10.4545	0.3633	0.0126	1.0157	0.3233	1,113.0000
0.0494	114.2533	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0350	49.6000	0.3096	0.5545	0.0393	0.0006	0.0936	0.0350	49.6000
0.0464	66.8000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0240	25.6000	1.3476	1.7520	0.1620	0.0018	0.4830	0.1442	153.6000
	Totals	7.2574	21.3769	0.9531	0.0241	2.5302	0.8483	2,098.8000

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.022500	0.034684	0.001553	0.000049	0.003859	0.0015	4.0049

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
3.0150	4.6477	0.2082	0.0065	0.5171	0.2061	536.6566

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.008152	0.000729	0.000084	0.000009	0.000894	0.0001	0.9574

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
2.6087	0.2334	0.0267	0.0029	0.2861	0.0265	306.3680

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
12.8811	26.2580	4.3380	0.0335	3.3334	1.7423	2,941.8246

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
-----	-----	-----	-----	----	----	----

Phase 1G - Excavation and Lagging Installation, 12/21/10 - 12/31/10

	Emissions in Pounds per Hour						
	#/Day	Hrs/Day	CO	NOx	PM10	SOx	VOC
Compressor	0	0	0.3613	0.732	0.0526	0.0007	0.112
Backhoe (120 hp)	0	0	0.3623	0.5664	0.0515	0.0006	0.0910
Concrete Mixer	0	0	0.0434	0.0599	0.0035	0.0001	0.0101
Crane (250 hp)	1	1	0.3464	1.2372	0.0470	0.0013	0.1243
Dozer (305 hp)	1	7	0.5018	1.8078	0.0624	0.0023	0.1422
Drill Rig	0	0	0.5146	1.1331	0.0498	0.0017	0.1052
Excavator (250 hp)	1	7	0.3934	1.4935	0.0519	0.0018	0.1451
Loader (189 hp)	1	1	0.5537	1.0737	0.0555	0.0012	0.1254
Pumper	0	0	0.3096	0.5545	0.0393	0.0006	0.0936
Ram Hoe	1	3	0.3930	0.6747	0.0521	0.0008	0.1021

Trucks, Heavy Diesel1	Days	Loads/Day	Distance	Daily Mi
Dump Trucks	15	29	59	1711

Worker Vehicles2	#/Day	Distance	Daily Mi
Vehicles <5,151 lbs	16	20	320

Fugitive Dust	Lb/acre	Total Acres	Daily Acres	Rule 403 %	Daily PM10	Daily PM2.5
	20	1.4	0.3500	55	3.1500	0.6615

1 Based on Year 2010 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2010 autos and light trucks <5,151 lb

Emissions in Pounds per Day

PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0468	63.6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0458	51.7000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0031	7.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0418	112.0000	0.3464	1.2372	0.0470	0.0013	0.1243	0.0418	112.0000
0.0555	210.0600	3.5126	12.6546	0.4368	0.0161	0.9954	0.3888	1,470.4200
0.0443	165.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0462	159.0000	2.7538	10.4545	0.3633	0.0126	1.0157	0.3233	1,113.0000
0.0494	114.2533	0.5537	1.0737	0.0555	0.0012	0.1254	0.0494	114.2533
0.0350	49.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0464	66.8000	1.1790	2.0241	0.1563	0.0024	0.3063	0.1391	200.4000
	Totals	8.3455	27.4441	1.0589	0.0336	2.5671	0.9424	3,010.0733

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.022500	0.034684	0.001553	0.000049	0.003859	0.0015	4.0049

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
38.4975	59.3451	2.6579	0.0831	6.6031	2.6313	6,852.3839

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.008152	0.000729	0.000084	0.000009	0.000894	0.0001	0.9574

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
2.6087	0.2334	0.0267	0.0029	0.2861	0.0265	306.3680

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
49.4517	87.0226	6.8935	0.1196	9.4563	4.2617	10,168.8252

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
-----	-----	-----	-----	----	----	----

Phase 1G - Excavation and Lagging Installation, 1/1/11 - 1/10/11

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Compressor	0	0	0.3524	0.6923	0.0501	0.0007	0.1054
Backhoe (120 hp)	0	0	0.3589	0.5288	0.0478	0.0006	0.0833
Concrete Mixer	0	0	0.0429	0.0575	0.0032	0.0001	0.0096
Crane (250 hp)	1	1	0.3276	1.1522	0.0428	0.0013	0.1171
Dozer (305 hp)	1	7	0.4800	1.6450	0.0557	0.0023	0.1592
Drill Rig	0	0	0.5102	1.0083	0.0436	0.0017	0.0943
Excavator (250 hp)	1	7	0.3762	1.3632	0.0465	0.0018	0.1371
Loader (189 hp)	1	1	0.5501	0.9914	0.0518	0.0012	0.1173
Pumper	0	0	0.3040	0.5285	0.0375	0.0006	0.0877
Ram Hoe	1	3	0.3874	0.6276	0.0482	0.0008	0.0938

Trucks, Heavy Diesel1	Days	Loads/Day	Distance	Daily Mi
Dump Trucks	15	29	59	1711

Worker Vehicles2	#/Day	Distance	Daily Mi
Vehicles <5,151 lbs	16	20	320

Fugitive Dust	Lb/acre	Total Acres	Daily Acres	Rule 403 % Daily	PM10	Daily PM2.5
	20	1.4	0.3500	55	3.1500	0.6615

1 Based on Year 2011 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2011 autos and light trucks <5,151 lb

Emissions in Pounds per Day

PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0446	63.6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0425	51.7000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0028	7.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0381	112.0000	0.3276	1.1522	0.0428	0.0013	0.1171	0.0381	112.0000
0.0496	210.0600	3.3600	11.5150	0.3899	0.0161	1.1144	0.3470	1,470.4200
0.0388	165.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0414	159.0000	2.6334	9.5424	0.3255	0.0126	0.9597	0.2897	1,113.0000
0.0461	114.2533	0.5501	0.9914	0.0518	0.0012	0.1173	0.0461	114.2533
0.0334	49.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0429	66.8000	1.1622	1.8828	0.1446	0.0024	0.2814	0.1287	200.4000
	Totals	8.0333	25.0838	0.9546	0.0336	2.5899	0.8496	3,010.0733

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0208	0.0315	0.0014	0.0000	0.0036	0.0014	4.0330

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
35.5517	53.9530	2.4616	0.0807	6.1338	2.4370	6,900.4953

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0076	0.0007	0.0001	0.0000	0.0008	0.0001	0.9635

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
2.4238	0.2147	0.0271	0.0029	0.2678	0.0269	308.3135

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
46.0088	79.2515	6.5933	0.1172	8.9915	3.9749	10,218.8821

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
-----	-----	-----	-----	----	----	----

Phase 2A - Sub-basement, 1/11/11 - 2/28/11

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Backhoe (120 hp)	1	7	0.3589	0.5288	0.0478	0.0006	0.0833
Concrete Mixer	20	2	0.0429	0.0575	0.0032	0.0001	0.0096
Crane (250 hp)	1	7	0.3276	1.1522	0.0428	0.0013	0.1171
Pumper	1	7	0.3040	0.5285	0.0375	0.0006	0.0877

Trucks, Heavy Diesel1	Days	Loads/Day	Distance	Daily Mi
Cement Trucks	5	20	19	380
Formwork	1	1	19	19
Gravel	2	5	19	95
Rebar	3	1	29	29
Plumbing	3	1	29	29
			Total	537
Worker Vehicles2	#/Day		Distance	Daily Mi
Vehicles <5,151 lbs	30		20	600

1 Based on Year 2011 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2011 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0425	51.7000	2.5123	3.7016	0.3346	0.0042	0.5831	0.2978	361.9000
0.0028	7.2000	1.7160	2.3000	0.1280	0.0040	0.3840	0.1139	288.0000
0.0381	112.0000	2.2932	8.0654	0.2996	0.0091	0.8197	0.2666	784.0000
0.0334	49.6000	2.1280	3.6995	0.2625	0.0042	0.6139	0.2336	347.2000
	Totals	8.6495	17.7665	1.0247	0.0215	2.4007	0.9120	1,781.1000

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0208	0.0315	0.0014	0.0000	0.0036	0.0014	4.0330

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
11.1579	16.9332	0.7726	0.0253	1.9251	0.7648	2,165.7311

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0076	0.0007	0.0001	0.0000	0.0008	0.0001	0.9635

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
4.5446	0.4026	0.0509	0.0054	0.5022	0.0503	578.0879

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
24.3521	35.1024	1.8481	0.0523	4.8280	1.7272	4,524.9190

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
------------	------------	------------	------------	-----------	-----------	-----------

Phase 2B - Shotcrete, 3/1/11 - 4/25/11

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Backhoe (120 hp)	0	0	0.3589	0.5288	0.0478	0.0006	0.0833
Concrete Mixer	23	3	0.0429	0.0575	0.0032	0.0001	0.0096
Crane (250 hp)	1	7	0.3276	1.1522	0.0428	0.0013	0.1171
Pumper	1	4	0.3040	0.5285	0.0375	0.0006	0.0877

	Days	Loads/Day	Distance	Daily Mi
Trucks, Heavy Diesel ¹				
Cement Trucks	3	23	19	437
WP	1	1	17	17
Form work	1	2	19	38
Rebar	1	3	29	87

	#/Day	Total Distance	Daily Mi
Worker Vehicles ²		579	
Vehicles <5,151 lbs	30	20	600

1 Based on Year 2011 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2011 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0425	51.7000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0028	7.2000	2.9601	3.9675	0.2208	0.0069	0.6624	0.1965	496.8000
0.0381	112.0000	2.2932	8.0654	0.2996	0.0091	0.8197	0.2666	784.0000
0.0334	49.6000	1.2160	2.1140	0.1500	0.0024	0.3508	0.1335	198.4000
	Totals	6.4693	14.1469	0.6704	0.0184	1.8329	0.5967	1,479.2000

Truck Emissions in Pounds per Mile								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
0.0208	0.0315	0.0014	0.0000	0.0036	0.0014	4.0330		

Truck Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
12.0306	18.2576	0.8330	0.0273	2.0757	0.8247	2,335.1179		

Worker Emissions in Pounds per Mile								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
0.0076	0.0007	0.0001	0.0000	0.0008	0.0001	0.9635		

Worker Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
4.5446	0.4026	0.0509	0.0054	0.5022	0.0503	578.0879		

Total Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
23.0445	32.8072	1.5542	0.0512	4.4107	1.4717	4,392.4058		

Thresholds in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
550	100	150	150	75	55	NT		

Phase 2C - Basement Deck, 4/26/11 - 6/6/11

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Backhoe (120 hp)	0	0	0.3589	0.5288	0.0478	0.0006	0.0833
Concrete Mixer	23	3	0.0429	0.0575	0.0032	0.0001	0.0096
Crane (250 hp)	1	7	0.3276	1.1522	0.0428	0.0013	0.1171
Pumper	1	3	0.3040	0.5285	0.0375	0.0006	0.0877

Trucks, Heavy Diesel1	Days	Loads/Day	Distance	Daily Mi
Cement Trucks	2	23	19	437
Form Work	1	2	17	34
Shoring	1	2	19	38

Worker Vehicles2	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	30	20	600

1 Based on Year 2011 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2011 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0425	51.7000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0028	7.2000	2.9601	3.9675	0.2208	0.0069	0.6624	0.1965	496.8000
0.0381	112.0000	2.2932	8.0654	0.2996	0.0091	0.8197	0.2666	784.0000
0.0334	49.6000	0.9120	1.5855	0.1125	0.0018	0.2631	0.1001	148.8000
	Totals	6.1653	13.6184	0.6329	0.0178	1.7452	0.5633	1,429.6000

Truck Emissions in Pounds per Mile								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
0.0208	0.0315	0.0014	0.0000	0.0036	0.0014	4.0330		

Truck Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
10.5762	16.0503	0.7323	0.0240	1.8247	0.7250	2,052.8066		

Worker Emissions in Pounds per Mile								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
0.0076	0.0007	0.0001	0.0000	0.0008	0.0001	0.9635		

Worker Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
4.5446	0.4026	0.0509	0.0054	0.5022	0.0503	578.0879		

Total Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
21.2861	30.0714	1.4160	0.0473	4.0721	1.3386	4,060.4945		

Thresholds in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
550	100	150	150	75	55	NT		

Phase 2D - Shotcrete Basement, 6/7/11 - 8/1/11

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Backhoe (120 hp)	0	0	0.3589	0.5288	0.0478	0.0006	0.0833
Concrete Mixer	23	3	0.0429	0.0575	0.0032	0.0001	0.0096
Crane (250 hp)	1	7	0.3276	1.1522	0.0428	0.0013	0.1171
Pumper	1	3	0.3040	0.5285	0.0375	0.0006	0.0877

Trucks, Heavy Diesel ¹	Days	Loads/Day	Distance	Daily Mi
Cement Trucks	3	23	19	437
WP	1	1	17	17
Rebar	1	3	29	87

Worker Vehicles ²	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	30	20	600

1 Based on Year 2011 Heavy Heavy Diesels >30,000 lb
 2 Based on a composite of Year 2011 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0425	51.7000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0028	7.2000	2.9601	3.9675	0.2208	0.0069	0.6624	0.1965	496.8000
0.0381	112.0000	2.2932	8.0654	0.2996	0.0091	0.8197	0.2666	784.0000
0.0334	49.6000	0.9120	1.5855	0.1125	0.0018	0.2631	0.1001	148.8000
	Totals	6.1653	13.6184	0.6329	0.0178	1.7452	0.5633	1,429.6000

Truck Emissions in Pounds per Mile								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
0.0208	0.0315	0.0014	0.0000	0.0036	0.0014	4.0330		

Truck Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
11.2411	17.0594	0.7783	0.0255	1.9394	0.7705	2,181.8632		

Worker Emissions in Pounds per Mile								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
0.0076	0.0007	0.0001	0.0000	0.0008	0.0001	0.9635		

Worker Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
4.5446	0.4026	0.0509	0.0054	0.5022	0.0503	578.0879		

Total Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
21.9510	31.0804	1.4621	0.0488	4.1868	1.3842	4,189.5511		

Thresholds in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
550	100	150	150	75	55	NT		

Phase 23A - First Floor Deck, 8/2/11 - 9/12/11

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	20	3	0.0429	0.0575	0.0032	0.0001	0.0096
Crane (250 hp)	1	7	0.3276	1.1522	0.0428	0.0013	0.1171
Other	1	7	0.3954	0.9321	0.0404	0.0013	0.0984
Pumper	1	3	0.3040	0.5285	0.0375	0.0006	0.0877

Trucks, Heavy Diesel ¹	Days	Loads/Day	Distance	Daily Mi
Cement Trucks	2	25	19	475
Shoring	1	2	19	38
Rebar	1	2	29	58
Form Work	1	2	19	38
Metal Studs	1	2	108	216
			Total	825
Worker Vehicles ²	#/Day		Distance	Daily Mi
Vehicles <5,151 lbs	42		20	840

1 Based on Year 2011 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2011 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0028	7.2000	2.5740	3.4500	0.1920	0.0060	0.5760	0.1709	432.0000
0.0381	112.0000	2.2932	8.0654	0.2996	0.0091	0.8197	0.2666	784.0000
0.0360	123.0000	2.7678	6.5247	0.2828	0.0091	0.6888	0.2517	861.0000
0.0334	49.6000	0.9120	1.5855	0.1125	0.0018	0.2631	0.1001	148.8000
	Totals	8.5470	19.6256	0.8869	0.0260	2.3476	0.7893	2,225.8000
Truck Emissions in Pounds per Mile								
	CO	NOx	PM10	SOx	VOC	PM2.5	CO2	
	0.0208	0.0315	0.0014	0.0000	0.0036	0.0014	4.0330	
Truck Emissions in Pounds per Day								
	CO	NOx	PM10	SOx	VOC	PM2.5	CO2	
	17.1421	26.0147	1.1869	0.0389	2.9575	1.1750	3,327.2406	
Worker Emissions in Pounds per Mile								
	CO	NOx	PM10	SOx	VOC	PM2.5	CO2	
	0.0076	0.0007	0.0001	0.0000	0.0008	0.0001	0.9635	
Worker Emissions in Pounds per Day								
	CO	NOx	PM10	SOx	VOC	PM2.5	CO2	
	6.3625	0.5637	0.0712	0.0076	0.7030	0.0705	809.3230	
Total Emissions in Pounds per Day								
	CO	NOx	PM10	SOx	VOC	PM2.5	CO2	
	32.0516	46.2040	2.1450	0.0725	6.0082	2.0349	6,362.3636	
Thresholds in Pounds per Day								
	550	100	150	150	75	55	NT	

Phase 23B - Install Mechanical at Sub-Basement, 8/2/11 - 8/30/11

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	0	0	0.0429	0.0575	0.0032	0.0001	0.0096
Crane (250 hp)	0	0	0.3276	1.1522	0.0428	0.0013	0.1171
Other	1	7	0.3954	0.9321	0.0404	0.0013	0.0984
Pumper	0	0	0.3040	0.5285	0.0375	0.0006	0.0877

Trucks, Heavy Diesell	Days	Loads/Day	Distance	Daily Mi
Mechanical	1	1	108	108
Electrical	1	1	13	13
Plumbing	1	1	12	12

Worker Vehicles2	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	24	20	480

1 Based on Year 2011 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2011 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0028	7.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0381	112.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0360	123.0000	2.7678	6.5247	0.2828	0.0091	0.6888	0.2517	861.0000
0.0334	49.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Totals	2.7678	6.5247	0.2828	0.0091	0.6888	0.2517	861.0000

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0208	0.0315	0.0014	0.0000	0.0036	0.0014	4.0330

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
2.7635	4.1939	0.1913	0.0063	0.4768	0.1894	536.3915

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0076	0.0007	0.0001	0.0000	0.0008	0.0001	0.9635

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
3.6357	0.3221	0.0407	0.0044	0.4017	0.0403	462.4703

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
9.1670	11.0407	0.5148	0.0197	1.5673	0.4814	1,859.8618

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
------------	------------	------------	------------	-----------	-----------	-----------

Phase 23C - Shotcrete First Floor, 9/13/11 - 11/7/11

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	22	3	0.0429	0.0575	0.0032	0.0001	0.0096
Crane (250 hp)	1	7	0.3276	1.1522	0.0428	0.0013	0.1171
Other	1	7	0.3954	0.9321	0.0404	0.0013	0.0984
Pumper	1	3	0.3040	0.5285	0.0375	0.0006	0.0877

Trucks, Heavy Diesel1	Days	Loads/Day	Distance	Daily Mi
Cement Trucks	3	22	19	418
Rebar	1	2	29	58
Metal Studs	1	1	108	108

Worker Vehicles2	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	42	20	840

1 Based on Year 2011 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2011 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0028	51.7000	2.8314	3.7950	0.2112	0.0066	0.6336	0.1880	3,412.2000
0.0381	7.2000	2.2932	8.0654	0.2996	0.0091	0.8197	0.2666	50.4000
0.0360	112.0000	2.7678	6.5247	0.2828	0.0091	0.6888	0.2517	784.0000
0.0334	49.6000	0.9120	1.5855	0.1125	0.0018	0.2631	0.1001	148.8000
	Totals	8.8044	19.9706	0.9061	0.0266	2.4052	0.8064	4,395.4000

Truck Emissions in Pounds per Mile								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
0.0208	0.0315	0.0014	0.0000	0.0036	0.0014	4.0330		

Truck Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
12.1345	18.4153	0.8402	0.0275	2.0936	0.8318	2,355.2830		

Worker Emissions in Pounds per Mile								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
0.0076	0.0007	0.0001	0.0000	0.0008	0.0001	0.9635		

Worker Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
6.3625	0.5637	0.0712	0.0076	0.7030	0.0705	809.3230		

Total Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
27.3014	38.9496	1.8175	0.0618	5.2018	1.7087	7,560.0060		

Thresholds in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
550	100	150	150	75	55	NT		

Phase 23D - Second Floor Deck, 11/8/11 - 12/19/11

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	24	3	0.0429	0.0575	0.0032	0.0001	0.0096
Crane (250 hp)	1	7	0.3276	1.1522	0.0428	0.0013	0.1171
Other	1	7	0.3954	0.9321	0.0404	0.0013	0.0984
Pumper	1	3	0.3040	0.5285	0.0375	0.0006	0.0877
Trucks, Heavy Diesell	Days	Loads/Day	Distance	Daily Mi			
Cement Trucks	2	24	19	456			
Rebar	1	2	29	58			
			Total	514			
Worker Vehicles2	#/Day			Distance	Daily Mi		
Vehicles <5,151 lbs	30			20	600		

1 Based on Year 2011 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2011 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0028	51.7000	3.0888	4.1400	0.2304	0.0072	0.6912	0.2051	3,722.4000
0.0381	7.2000	2.2932	8.0654	0.2996	0.0091	0.8197	0.2666	50.4000
0.0360	112.0000	2.7678	6.5247	0.2828	0.0091	0.6888	0.2517	784.0000
0.0334	49.6000	0.9120	1.5855	0.1125	0.0018	0.2631	0.1001	148.8000
	Totals	9.0618	20.3156	0.9253	0.0272	2.4628	0.8235	4,705.6000

Truck Emissions in Pounds per Mile								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
0.0208	0.0315	0.0014	0.0000	0.0036	0.0014	4.0330		

Truck Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
10.6800	16.2080	0.7395	0.0242	1.8426	0.7321	2,072.9717		

Worker Emissions in Pounds per Mile								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
0.0076	0.0007	0.0001	0.0000	0.0008	0.0001	0.9635		

Worker Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
4.5446	0.4026	0.0509	0.0054	0.5022	0.0503	578.0879		

Total Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
24.2865	36.9262	1.7156	0.0569	4.8076	1.6059	7,356.6596		

Thresholds in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
550	100	150	150	75	55	NT		

Phase 23E - Install Electrical and Plumbing in Basement, 11/8/11 - 12/6/11

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	0	0	0.0429	0.0575	0.0032	0.0001	0.0096
Crane (250 hp)	0	0	0.3276	1.1522	0.0428	0.0013	0.1171
Other	1	7	0.3954	0.9321	0.0404	0.0013	0.0984
Pumper	0	0	0.3040	0.5285	0.0375	0.0006	0.0877

Trucks, Heavy Diesel ¹	Days	Loads/Day	Distance	Daily Mi
Mechanical	1	1	108	108
Electrical	1	1	13	13
Plumbing	1	1	12	12

Worker Vehicles ²	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	20	20	400

¹ Based on Year 2011 Heavy Heavy Diesels >30,000 lb

² Based on a composite of Year 2011 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0028	51.7000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0381	7.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0360	112.0000	2.7678	6.5247	0.2828	0.0091	0.6888	0.2517	784.0000
0.0334	49.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Totals	2.7678	6.5247	0.2828	0.0091	0.6888	0.2517	784.0000

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0208	0.0315	0.0014	0.0000	0.0036	0.0014	4.0330

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
2.7635	4.1939	0.1913	0.0063	0.4768	0.1894	536.3915

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0076	0.0007	0.0001	0.0000	0.0008	0.0001	0.9635

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
3.0297	0.2684	0.0339	0.0036	0.3348	0.0336	385.3919

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
8.5611	10.9870	0.5080	0.0190	1.5004	0.4747	1,705.7834

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
------------	------------	------------	------------	-----------	-----------	-----------

Phase 23F - Shotcrete Second Floor, 12/20/11 - 12/31/11

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	17	3	0.0425	0.0564	0.0029	0.0001	0.0093
Crane (250 hp)	1	7	0.3103	1.0712	0.0388	0.0013	0.1103
Other	1	7	0.3847	0.8599	0.0366	0.0013	0.0925
Pumper	1	3	0.2983	0.4999	0.0351	0.0006	0.0813

Trucks, Heavy Diesel ¹	Days	Loads/Day	Distance	Daily Mi
Cement	2	17	19	323
Rebar	1	2	29	58
Metal Studs	1	1	108	108

Worker Vehicles ²	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	42	20	840

¹ Based on Year 2011 Heavy Heavy Diesels >30,000 lb

² Based on a composite of Year 2011 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0026	7.2000	2.1675	2.8764	0.1479	0.0051	0.4743	0.1316	367.2000
0.0345	112.0000	2.1721	7.4984	0.2716	0.0091	0.7721	0.2417	784.0000
0.0326	123.0000	2.6929	6.0193	0.2562	0.0091	0.6475	0.2280	861.0000
0.0312	49.6000	0.8949	1.4997	0.1053	0.0018	0.2439	0.0937	148.8000
	Totals	7.9274	17.8938	0.7810	0.0251	2.1378	0.6951	2,161.0000
Truck Emissions in Pounds per Mile								
	CO	NOx	PM10	SOx	VOC	PM2.5	CO2	
	0.0208	0.0315	0.0014	0.0000	0.0036	0.0014	4.0330	
Truck Emissions in Pounds per Day								
	CO	NOx	PM10	SOx	VOC	PM2.5	CO2	
	10.1606	15.4196	0.7035	0.0231	1.7530	0.6965	1,972.1462	
Worker Emissions in Pounds per Mile								
	CO	NOx	PM10	SOx	VOC	PM2.5	CO2	
	0.0076	0.0007	0.0001	0.0000	0.0008	0.0001	0.9635	
Worker Emissions in Pounds per Day								
	CO	NOx	PM10	SOx	VOC	PM2.5	CO2	
	6.3625	0.5637	0.0712	0.0076	0.7030	0.0705	809.3230	
Total Emissions in Pounds per Day								
	CO	NOx	PM10	SOx	VOC	PM2.5	CO2	
	24.4504	33.8772	1.5557	0.0558	4.5939	1.4621	4,942.4692	
Thresholds in Pounds per Day								
	550	100	150	150	75	55	NT	

Phase 23FF - Shotcrete Second Floor, 1/1/12 - 2/13/12

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	17	3	0.0425	0.0564	0.0029	0.0001	0.0093
Crane (250 hp)	1	7	0.3103	1.0712	0.0388	0.0013	0.1103
Other	1	7	0.3847	0.8599	0.0366	0.0013	0.0925
Pumper	1	3	0.2983	0.4999	0.0351	0.0006	0.0813

Trucks, Heavy Diesel ¹	Days	Loads/Day	Distance	Daily Mi
Cement	2	17	19	323
Rebar	1	2	29	58
Metal Studs	1	1	108	108

Worker Vehicles ²	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	42	20	840

1 Based on Year 2012 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2012 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0026	7.2000	2.1675	2.8764	0.1479	0.0051	0.4743	0.1316	367.2000
0.0345	112.0000	2.1721	7.4984	0.2716	0.0091	0.7721	0.2417	784.0000
0.0326	123.0000	2.6929	6.0193	0.2562	0.0091	0.6475	0.2280	861.0000
0.0312	49.6000	0.8949	1.4997	0.1053	0.0018	0.2439	0.0937	148.8000
	Totals	7.9274	17.8938	0.7810	0.0251	2.1378	0.6951	2,161.0000

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0186	0.0283	0.0013	0.0000	0.0032	0.0013	4.0593

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
9.1109	13.8615	0.6356	0.0223	1.5835	0.6293	1,984.9943

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0070	0.0006	0.0001	0.0000	0.0008	0.0001	0.9623

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
5.8823	0.5161	0.0715	0.0076	0.6577	0.0708	808.3002

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
22.9206	32.2714	1.4882	0.0550	4.3790	1.3952	4,954.2945

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
-----	-----	-----	-----	----	----	----

Phase 23G - Third Floor Deck, 2/14/12 - 3/26/12

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	20	3	0.0425	0.0564	0.0029	0.0001	0.0093
Crane (250 hp)	1	7	0.3103	1.0712	0.0388	0.0013	0.1103
Other	0	0	0.3847	0.8599	0.0366	0.0013	0.0925
Pumper	1	3	0.2983	0.4999	0.0351	0.0006	0.0813

Trucks, Heavy Diesel ¹	Days	Loads/Day	Distance	Daily Mi
Cement	2	20	19	380
Rebar	1	2	29	58

Worker Vehicles ²	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	30	20	600

¹ Based on Year 2012 Heavy Heavy Diesels >30,000 lb

² Based on a composite of Year 2012 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0026	7.2000	2.5500	3.3840	0.1740	0.0060	0.5580	0.1549	432.0000
0.0345	112.0000	2.1721	7.4984	0.2716	0.0091	0.7721	0.2417	784.0000
0.0326	123.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0312	49.6000	0.8949	1.4997	0.1053	0.0018	0.2439	0.0937	148.8000
	Totals	5.6170	12.3821	0.5509	0.0169	1.5740	0.4903	1,364.8000

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0186	0.0283	0.0013	0.0000	0.0032	0.0013	4.0593

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
8.1607	12.4158	0.5694	0.0200	1.4184	0.5637	1,777.9704

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0070	0.0006	0.0001	0.0000	0.0008	0.0001	0.9623

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
4.2016	0.3687	0.0511	0.0054	0.4698	0.0506	577.3573

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
17.9793	25.1666	1.1713	0.0423	3.4621	1.1045	3,720.1277

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
-----	-----	-----	-----	----	----	----

Phase 23H - Third Floor Interior, 3/27/12 - 4/16/12

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	15	3	0.0425	0.0564	0.0029	0.0001	0.0093
Crane (250 hp)	1	7	0.3103	1.0712	0.0388	0.0013	0.1103
Other	1	7	0.3847	0.8599	0.0366	0.0013	0.0925
Pumper	1	3	0.2983	0.4999	0.0351	0.0006	0.0813

Trucks, Heavy Diesel ¹	Days	Loads/Day	Distance	Daily Mi
Cement	2	15	19	285
Rebar	1	2	29	58
Metal Studs	1	1	108	108

Worker Vehicles ²	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	42	20	840

¹ Based on Year 2012 Heavy Heavy Diesels >30,000 lb

² Based on a composite of Year 2012 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0026	7.2000	1.9125	2.5380	0.1305	0.0045	0.4185	0.1161	324.0000
0.0345	112.0000	2.1721	7.4984	0.2716	0.0091	0.7721	0.2417	784.0000
0.0326	123.0000	2.6929	6.0193	0.2562	0.0091	0.6475	0.2280	861.0000
0.0312	49.6000	0.8949	1.4997	0.1053	0.0018	0.2439	0.0937	148.8000
	Totals	7.6724	17.5554	0.7636	0.0245	2.0820	0.6796	2,117.8000
Truck Emissions in Pounds per Mile								
	CO	NOx	PM10	SOx	VOC	PM2.5	CO2	
	0.0186	0.0283	0.0013	0.0000	0.0032	0.0013	4.0593	
Truck Emissions in Pounds per Day								
	CO	NOx	PM10	SOx	VOC	PM2.5	CO2	
	8.4029	12.7843	0.5862	0.0206	1.4605	0.5804	1,830.7412	
Worker Emissions in Pounds per Mile								
	CO	NOx	PM10	SOx	VOC	PM2.5	CO2	
	0.0070	0.0006	0.0001	0.0000	0.0008	0.0001	0.9623	
Worker Emissions in Pounds per Day								
	CO	NOx	PM10	SOx	VOC	PM2.5	CO2	
	5.8823	0.5161	0.0715	0.0076	0.6577	0.0708	808.3002	
Total Emissions in Pounds per Day								
	CO	NOx	PM10	SOx	VOC	PM2.5	CO2	
	21.9576	30.8558	1.4214	0.0526	4.2002	1.3308	4,756.8414	
Thresholds in Pounds per Day								
	550	100	150	150	75	55	NT	

Phase 23I - First Floor Mechanical, 3/27/12 - 4/24/12

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	0	0	0.0425	0.0564	0.0029	0.0001	0.0093
Crane (250 hp)	1	7	0.3103	1.0712	0.0388	0.0013	0.1103
Other	1	7	0.3847	0.8599	0.0366	0.0013	0.0925
Pumper	0	0	0.2983	0.4999	0.0351	0.0006	0.0813

Trucks, Heavy Diesell	Days	Loads/Day	Distance	Daily Mi
Mechanical	1	1	108	108
Electrical	1	1	13	13
Plumbing	1	1	12	12

Worker Vehicles2	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	24	20	480

1 Based on Year 2012 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2012 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0026	7.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0345	112.0000	2.1721	7.4984	0.2716	0.0091	0.7721	0.2417	784.0000
0.0326	123.0000	2.6929	6.0193	0.2562	0.0091	0.6475	0.2280	861.0000
0.0312	49.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Totals	4.8650	13.5177	0.5278	0.0182	1.4196	0.4697	1,645.0000

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0186	0.0283	0.0013	0.0000	0.0032	0.0013	4.0593

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
2.4780	3.7701	0.1729	0.0061	0.4307	0.1712	539.8860

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0070	0.0006	0.0001	0.0000	0.0008	0.0001	0.9623

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
3.3613	0.2949	0.0409	0.0043	0.3758	0.0405	461.8858

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
10.7043	17.5827	0.7416	0.0286	2.2261	0.6814	2,646.7718

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
-----	-----	-----	-----	----	----	----

Phase 23J - Fourth Floor Deck, 4/17/12 - 5/28/12

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	20	3	0.0425	0.0564	0.0029	0.0001	0.0093
Crane (250 hp)	0	0	0.3103	1.0712	0.0388	0.0013	0.1103
Other	1	7	0.3847	0.8599	0.0366	0.0013	0.0925
Pumper	1	3	0.2983	0.4999	0.0351	0.0006	0.0813

Trucks, Heavy Diesel ¹	Days	Loads/Day	Distance	Daily Mi
Cement	2	20	19	380
Rebar	1	2	29	58
Metal Studs	1	2	108	216

Worker Vehicles ²	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	42	20	840

¹ Based on Year 2012 Heavy Heavy Diesels >30,000 lb

² Based on a composite of Year 2012 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0026	7.2000	2.5500	3.3840	0.1740	0.0060	0.5580	0.1549	432.0000
0.0345	112.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0326	123.0000	2.6929	6.0193	0.2562	0.0091	0.6475	0.2280	861.0000
0.0312	49.6000	0.8949	1.4997	0.1053	0.0018	0.2439	0.0937	148.8000
Totals		6.1378	10.9030	0.5355	0.0169	1.4494	0.4766	1,441.8000

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0186	0.0283	0.0013	0.0000	0.0032	0.0013	4.0593

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
12.1851	18.5387	0.8501	0.0298	2.1179	0.8416	2,654.7777

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0070	0.0006	0.0001	0.0000	0.0008	0.0001	0.9623

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
5.8823	0.5161	0.0715	0.0076	0.6577	0.0708	808.3002

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
24.2052	29.9578	1.4572	0.0543	4.2249	1.3890	4,904.8779

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
-----	-----	-----	-----	----	----	----

Phase 23K - Second Floor Mechanical, 4/17/12 - 5/15/12

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	0	0	0.0425	0.0564	0.0029	0.0001	0.0093
Crane (250 hp)	0	0	0.3103	1.0712	0.0388	0.0013	0.1103
Other	1	7	0.3847	0.8599	0.0366	0.0013	0.0925
Pumper	0	0	0.2983	0.4999	0.0351	0.0006	0.0813

Trucks, Heavy Diesel ¹	Days	Loads/Day	Distance	Daily Mi
Mechanical	1	1	108	108
Electrical	1	1	13	13
Plumbing	1	1	12	12

Worker Vehicles ²	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	20	20	400

¹ Based on Year 2012 Heavy Heavy Diesels >30,000 lb

² Based on a composite of Year 2012 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0026	7.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0345	112.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0326	123.0000	2.6929	6.0193	0.2562	0.0091	0.6475	0.2280	861.0000
0.0312	49.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Totals	2.6929	6.0193	0.2562	0.0091	0.6475	0.2280	861.0000

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0186	0.0283	0.0013	0.0000	0.0032	0.0013	4.0593

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
2.4780	3.7701	0.1729	0.0061	0.4307	0.1712	539.8860

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0070	0.0006	0.0001	0.0000	0.0008	0.0001	0.9623

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
2.8011	0.2458	0.0341	0.0036	0.3132	0.0337	384.9049

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
7.9720	10.0352	0.4631	0.0188	1.3914	0.4329	1,785.7908

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
-----	-----	-----	-----	----	----	----

Phase 23L - Fourth Floor Interior, 5/29/12 - 6/18/12

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	15	3	0.0425	0.0564	0.0029	0.0001	0.0093
Crane (250 hp)	1	7	0.3103	1.0712	0.0388	0.0013	0.1103
Other	0	0	0.3847	0.8599	0.0366	0.0013	0.0925
Pumper	1	3	0.2983	0.4999	0.0351	0.0006	0.0813

Trucks, Heavy Diesel ¹	Days	Loads/Day	Distance	Daily Mi
Cement	2	15	19	285
Rebar	1	2	58	116
Metal Studs	1	1	108	108

Worker Vehicles ²	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	30	20	600

1 Based on Year 2012 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2012 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day

PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0026	7.2000	1.9125	2.5380	0.1305	0.0045	0.4185	0.1161	324.0000
0.0345	112.0000	2.1721	7.4984	0.2716	0.0091	0.7721	0.2417	784.0000
0.0326	123.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0312	49.6000	0.8949	1.4997	0.1053	0.0018	0.2439	0.0937	148.8000
	Totals	4.9795	11.5361	0.5074	0.0154	1.4345	0.4516	1,256.8000

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0186	0.0283	0.0013	0.0000	0.0032	0.0013	4.0593

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
9.4835	14.4284	0.6616	0.0232	1.6483	0.6550	2,066.1802

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0070	0.0006	0.0001	0.0000	0.0008	0.0001	0.9623

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
4.2016	0.3687	0.0511	0.0054	0.4698	0.0506	577.3573

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
18.6647	26.3332	1.2201	0.0440	3.5526	1.1572	3,900.3375

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
-----	-----	-----	-----	----	----	----

Phase 3A - Fourth Floor Framing, 6/19/12 - 7/23/12

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	0	0	0.0425	0.0564	0.0029	0.0001	0.0093
Crane (250 hp)	0	0	0.3103	1.0712	0.0388	0.0013	0.1103
Other	1	7	0.3847	0.8599	0.0366	0.0013	0.0925
Pumper	0	0	0.2983	0.4999	0.0351	0.0006	0.0813

Trucks, Heavy Diesel1	Days	Loads/Day	Distance	Daily Mi
Metal Studs	1	1	108	108

Worker Vehicles2	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	12	20	240

1 Based on Year 2012 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2012 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0026	7.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0345	112.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0326	123.0000	2.6929	6.0193	0.2562	0.0091	0.6475	0.2280	861.0000
0.0312	49.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Totals		2.6929	6.0193	0.2562	0.0091	0.6475	0.2280	861.0000

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0186	0.0283	0.0013	0.0000	0.0032	0.0013	4.0593

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
2.0122	3.0614	0.1404	0.0049	0.3497	0.1390	438.4036

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0070	0.0006	0.0001	0.0000	0.0008	0.0001	0.9623

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
1.6807	0.1475	0.0204	0.0022	0.1879	0.0202	230.9429

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
6.3858	9.2282	0.4170	0.0162	1.1851	0.3872	1,530.3466

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
-----	-----	-----	-----	----	----	----

Phase 3B - Fourth Floor Mechanical, 7/24/12 - 8/21/12

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	0	0	0.0425	0.0564	0.0029	0.0001	0.0093
Crane (250 hp)	0	0	0.3103	1.0712	0.0388	0.0013	0.1103
Other	1	7	0.3847	0.8599	0.0366	0.0013	0.0925
Pumper	0	0	0.2983	0.4999	0.0351	0.0006	0.0813

Trucks, Heavy Diesel ¹	Days	Loads/Day	Distance	Daily Mi
Mechanical	1	1	108	108
Electrical	1	1	13	13
Plumbing	1	1	12	12

Worker Vehicles ²	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	20	20	400

1 Based on Year 2012 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2012 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0026	7.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0345	112.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0326	123.0000	2.6929	6.0193	0.2562	0.0091	0.6475	0.2280	861.0000
0.0312	49.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Totals	2.6929	6.0193	0.2562	0.0091	0.6475	0.2280	861.0000

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0186	0.0283	0.0013	0.0000	0.0032	0.0013	4.0593

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
2.4780	3.7701	0.1729	0.0061	0.4307	0.1712	539.8860

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0070	0.0006	0.0001	0.0000	0.0008	0.0001	0.9623

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
2.8011	0.2458	0.0341	0.0036	0.3132	0.0337	384.9049

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
7.9720	10.0352	0.4631	0.0188	1.3914	0.4329	1,785.7908

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
-----	-----	-----	-----	----	----	----

Phase 3C - Windows and Doors, 7/24/12 - 9/7/12

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	0	0	0.0425	0.0564	0.0029	0.0001	0.0093
Crane (250 hp)	0	0	0.3103	1.0712	0.0388	0.0013	0.1103
Other	1	7	0.3847	0.8599	0.0366	0.0013	0.0925
Pumper	0	0	0.2983	0.4999	0.0351	0.0006	0.0813

Trucks, Heavy Diesel1	Days	Loads/Day	Distance	Daily Mi
Windows/Doors	8	1	30	30
WP	1	1	17	17

Worker Vehicles2	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	6	20	120

1 Based on Year 2012 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2012 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day

PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0026	7.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0345	112.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0326	123.0000	2.6929	6.0193	0.2562	0.0091	0.6475	0.2280	861.0000
0.0312	49.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Totals	2.6929	6.0193	0.2562	0.0091	0.6475	0.2280	861.0000

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0186	0.0283	0.0013	0.0000	0.0032	0.0013	4.0593

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.8757	1.3323	0.0611	0.0021	0.1522	0.0605	190.7868

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0070	0.0006	0.0001	0.0000	0.0008	0.0001	0.9623

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.8403	0.0737	0.0102	0.0011	0.0940	0.0101	115.4715

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
4.4089	7.4253	0.3275	0.0123	0.8937	0.2986	1,167.2582

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
-----	-----	-----	-----	----	----	----

Phase 3D - Waterproofing, 7/24/12 - 8/27/12

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	0	0	0.0425	0.0564	0.0029	0.0001	0.0093
Crane (250 hp)	0	0	0.3103	1.0712	0.0388	0.0013	0.1103
Other	1	7	0.3847	0.8599	0.0366	0.0013	0.0925
Pumper	0	0	0.2983	0.4999	0.0351	0.0006	0.0813

Trucks, Heavy Diesel1	Days	Loads/Day	Distance	Daily Mi
Roofing	1	1	17	17
Decking	1	1	17	17

Worker Vehicles2	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	4	20	80

1 Based on Year 2012 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2012 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0026	7.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0345	112.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0326	123.0000	2.6929	6.0193	0.2562	0.0091	0.6475	0.2280	861.0000
0.0312	49.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Totals	2.6929	6.0193	0.2562	0.0091	0.6475	0.2280	861.0000

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0186	0.0283	0.0013	0.0000	0.0032	0.0013	4.0593

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.6335	0.9638	0.0442	0.0016	0.1101	0.0438	138.0160

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0070	0.0006	0.0001	0.0000	0.0008	0.0001	0.9623

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.5602	0.0492	0.0068	0.0007	0.0626	0.0067	76.9810

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
3.8866	7.0322	0.3072	0.0114	0.8202	0.2785	1,075.9969

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
-----	-----	-----	-----	----	----	----

Phase 3E - Install Trees, 8/16/12 - 8/27/12

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	0	0	0.0425	0.0564	0.0029	0.0001	0.0093
Crane (250 hp)	0	0	0.3103	1.0712	0.0388	0.0013	0.1103
Other	1	7	0.3847	0.8599	0.0366	0.0013	0.0925
Pumper	0	0	0.2983	0.4999	0.0351	0.0006	0.0813

Trucks, Heavy Diesel1	Days	Loads/Day	Distance	Daily Mi
Trees	8	1	30	30

Worker Vehicles2	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	24	20	480

1 Based on Year 2012 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2012 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0026	7.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0345	112.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0326	123.0000	2.6929	6.0193	0.2562	0.0091	0.6475	0.2280	861.0000
0.0312	49.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Totals	2.6929	6.0193	0.2562	0.0091	0.6475	0.2280	861.0000

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0186	0.0283	0.0013	0.0000	0.0032	0.0013	4.0593

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.5590	0.8504	0.0390	0.0014	0.0971	0.0386	121.7788

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0070	0.0006	0.0001	0.0000	0.0008	0.0001	0.9623

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
3.3613	0.2949	0.0409	0.0043	0.3758	0.0405	461.8858

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
6.6132	7.1646	0.3361	0.0148	1.1205	0.3071	1,444.6646

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
-----	-----	-----	-----	----	----	----

Phase 4A - Exterior Stucco, 8/3/12 - 11/3/12

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	2	7	0.0425	0.0564	0.0029	0.0001	0.0093
Crane (250 hp)	0	0	0.3103	1.0712	0.0388	0.0013	0.1103
Other	1	7	0.3847	0.8599	0.0366	0.0013	0.0925
Masonry Saws	1	7	0.4148	0.5910	0.0491	0.0007	0.1090

Trucks, Heavy Diesel ¹	Days	Loads/Day	Distance	Daily Mi
Scaffolding	1	4	20	80
Stone	14	1	78	78
Stucco	14	1	40	40
Lath	14	1	40	40

Worker Vehicles ²	#/Day	Distance	Daily Mi
Vehicles <5,151 lbs	12	20	240
		Total	238

1 Based on Year 2012 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2012 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0026	7.2000	0.5950	0.7896	0.0406	0.0014	0.1302	0.0361	100.8000
0.0345	112.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0326	123.0000	2.6929	6.0193	0.2562	0.0091	0.6475	0.2280	861.0000
0.0437	58.5000	2.9036	4.1370	0.3437	0.0049	0.7630	0.3059	409.5000
	Totals	6.1915	10.9459	0.6405	0.0154	1.5407	0.5700	1,371.3000

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0186	0.0283	0.0013	0.0000	0.0032	0.0013	4.0593

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
4.4343	6.7465	0.3094	0.0109	0.7707	0.3063	966.1117

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0070	0.0006	0.0001	0.0000	0.0008	0.0001	0.9623

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
1.6807	0.1475	0.0204	0.0022	0.1879	0.0202	230.9429

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
12.3065	17.8399	0.9703	0.0284	2.4993	0.8966	2,568.3547

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
-----	-----	-----	-----	----	----	----

Phase 4B - Interior Build Out, Sub-Basement, 4/25/12 - 8/7/12

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	2	7	0.0425	0.0564	0.0029	0.0001	0.0093
Crane (250 hp)	1	7	0.3103	1.0712	0.0388	0.0013	0.1103
Other	1	7	0.3847	0.8599	0.0366	0.0013	0.0925
Masonry Saws	0	0	0.4148	0.5910	0.0491	0.0007	0.1090

Trucks, Heavy Diesel1	Days	Loads/Day	Distance	Daily Mi
Materials	14	1	30	30

Worker Vehicles2	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	12	20	240

1 Based on Year 2012 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2012 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0026	7.2000	0.5950	0.7896	0.0406	0.0014	0.1302	0.0361	100.8000
0.0345	112.0000	2.1721	7.4984	0.2716	0.0091	0.7721	0.2417	784.0000
0.0326	123.0000	2.6929	6.0193	0.2562	0.0091	0.6475	0.2280	861.0000
0.0437	58.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Totals	5.4600	14.3073	0.5684	0.0196	1.5498	0.5059	1,745.8000

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0186	0.0283	0.0013	0.0000	0.0032	0.0013	4.0593

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.5590	0.8504	0.0390	0.0014	0.0971	0.0386	121.7788

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0070	0.0006	0.0001	0.0000	0.0008	0.0001	0.9623

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
1.6807	0.1475	0.0204	0.0022	0.1879	0.0202	230.9429

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
7.6996	15.3052	0.6278	0.0231	1.8349	0.5647	2,098.5217

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
-----	-----	-----	-----	----	----	----

Phase 4C - Interior Build Out, Basement, 5/16/12 - 8/28/12

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	1	7	0.0425	0.0564	0.0029	0.0001	0.0093
Crane (250 hp)	1	7	0.3103	1.0712	0.0388	0.0013	0.1103
Other	1	7	0.3847	0.8599	0.0366	0.0013	0.0925
Masonry Saws	0	0	0.4148	0.5910	0.0491	0.0007	0.1090

Trucks, Heavy Diesel1	Days	Loads/Day	Distance	Daily Mi
Materials	15	1	30	30

Worker Vehicles2	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	12	20	240

1 Based on Year 2012 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2012 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0026	7.2000	0.2975	0.3948	0.0203	0.0007	0.0651	0.0181	50.4000
0.0345	112.0000	2.1721	7.4984	0.2716	0.0091	0.7721	0.2417	784.0000
0.0326	123.0000	2.6929	6.0193	0.2562	0.0091	0.6475	0.2280	861.0000
0.0437	58.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Totals	5.1625	13.9125	0.5481	0.0189	1.4847	0.4878	1,695.4000

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0186	0.0283	0.0013	0.0000	0.0032	0.0013	4.0593

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.5590	0.8504	0.0390	0.0014	0.0971	0.0386	121.7788

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0070	0.0006	0.0001	0.0000	0.0008	0.0001	0.9623

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
1.6807	0.1475	0.0204	0.0022	0.1879	0.0202	230.9429

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
7.4021	14.9104	0.6075	0.0224	1.7698	0.5466	2,048.1217

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
-----	-----	-----	-----	----	----	----

Phase 4D - Interior Build Out, First Floor, 6/1/12 - 11/5/12

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	1	7	0.0425	0.0564	0.0029	0.0001	0.0093
Crane (250 hp)	0	0	0.3103	1.0712	0.0388	0.0013	0.1103
Other	0	0	0.3847	0.8599	0.0366	0.0013	0.0925
Masonry Saws	0	0	0.4148	0.5910	0.0491	0.0007	0.1090

Trucks, Heavy Diesel1	Days	Loads/Day	Distance	Daily Mi
Materials	23	1	30	30

Worker Vehicles2	#/Day	Total	30
		Distance	Daily Mi
Vehicles <5,151 lbs	16	20	320

1 Based on Year 2012 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2012 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0026	7.2000	0.2975	0.3948	0.0203	0.0007	0.0651	0.0181	50.4000
0.0345	112.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0326	123.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0437	58.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Totals	0.2975	0.3948	0.0203	0.0007	0.0651	0.0181	50.4000

Truck Emissions in Pounds per Mile								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
0.0186	0.0283	0.0013	0.0000	0.0032	0.0013	4.0593		

Truck Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
0.5590	0.8504	0.0390	0.0014	0.0971	0.0386	121.7788		

Worker Emissions in Pounds per Mile								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
0.0070	0.0006	0.0001	0.0000	0.0008	0.0001	0.9623		

Worker Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
2.2409	0.1966	0.0273	0.0029	0.2505	0.0270	307.9239		

Total Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
3.0973	1.4418	0.0865	0.0049	0.4128	0.0837	480.1027		

Thresholds in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
550	100	150	150	75	55	NT		

Phase 4E - Interior Build Out, Second Floor, 7/25/12 - 12/28/12

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	1	7	0.0425	0.0564	0.0029	0.0001	0.0093
Crane (250 hp)	0	0	0.3103	1.0712	0.0388	0.0013	0.1103
Other	1	7	0.3847	0.8599	0.0366	0.0013	0.0925
Masonry Saws	0	0	0.4148	0.5910	0.0491	0.0007	0.1090

Trucks, Heavy Diesel1	Days	Loads/Day	Distance	Daily Mi
Materials	23	1	30	30

Worker Vehicles2	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	12	20	240

1 Based on Year 2012 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2012 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0026	7.2000	0.2975	0.3948	0.0203	0.0007	0.0651	0.0181	50.4000
0.0345	112.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0326	123.0000	2.6929	6.0193	0.2562	0.0091	0.6475	0.2280	861.0000
0.0437	58.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Totals	2.9904	6.4141	0.2765	0.0098	0.7126	0.2461	911.4000

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0186	0.0283	0.0013	0.0000	0.0032	0.0013	4.0593

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.5590	0.8504	0.0390	0.0014	0.0971	0.0386	121.7788

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0070	0.0006	0.0001	0.0000	0.0008	0.0001	0.9623

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
1.6807	0.1475	0.0204	0.0022	0.1879	0.0202	230.9429

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
5.2300	7.4120	0.3359	0.0133	0.9977	0.3049	1,264.1217

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
-----	-----	-----	-----	----	----	----

Phase 4F - Interior Build Out, Third and Fourth Floor, 10/15/12 - 12/31/12

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	1	7	0.0425	0.0564	0.0029	0.0001	0.0093
Crane (250 hp)	0	0	0.3103	1.0712	0.0388	0.0013	0.1103
Other	1	7	0.3847	0.8599	0.0366	0.0013	0.0925
Masonry Saws	0	0	0.4148	0.5910	0.0491	0.0007	0.1090

Trucks, Heavy Diesel1	Days	Loads/Day	Distance	Daily Mi
Materials	23	1	30	30

Worker Vehicles2	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	16	20	320

1 Based on Year 2012 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2012 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0026	7.2000	0.2975	0.3948	0.0203	0.0007	0.0651	0.0181	50.4000
0.0345	112.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0326	123.0000	2.6929	6.0193	0.2562	0.0091	0.6475	0.2280	861.0000
0.0437	58.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Totals	2.9904	6.4141	0.2765	0.0098	0.7126	0.2461	911.4000

Truck Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0186	0.0283	0.0013	0.0000	0.0032	0.0013	4.0593

Truck Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.5590	0.8504	0.0390	0.0014	0.0971	0.0386	121.7788

Worker Emissions in Pounds per Mile

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0070	0.0006	0.0001	0.0000	0.0008	0.0001	0.9623

Worker Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
2.2409	0.1966	0.0273	0.0029	0.2505	0.0270	307.9239

Total Emissions in Pounds per Day

CO	NOx	PM10	SOx	VOC	PM2.5	CO2
5.7902	7.4611	0.3427	0.0140	1.0603	0.3117	1,341.1027

Thresholds in Pounds per Day

550	100	150	150	75	55	NT
-----	-----	-----	-----	----	----	----

Phase 4FF - Interior Build Out, Third and Fourth Floor, 1/1/13 - 3/20/13

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	1	7	0.0421	0.0556	0.0026	0.0001	0.0091
Crane (250 hp)	0	0	0.2948	0.9948	0.0351	0.0013	0.1040
Other	1	7	0.3765	0.7938	0.033	0.0013	0.0872
Masonry Saws	0	0	0.4088	0.5572	0.0452	0.0007	0.1002

Trucks, Heavy Diesel1	Days	Loads/Day	Distance	Daily Mi
Materials	23	1	30	30

Worker Vehicles2	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	16	20	320

1 Based on Year 2013 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2013 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0023	7.2000	0.2947	0.3892	0.0182	0.0007	0.0637	0.0162	50.4000
0.0312	112.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0294	123.0000	2.6355	5.5566	0.2310	0.0091	0.6104	0.2056	861.0000
0.0402	58.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Totals	2.9302	5.9458	0.2492	0.0098	0.6741	0.2218	911.4000

Truck Emissions in Pounds per Mile								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
0.0166	0.0253	0.0012	0.0000	0.0029	0.0012	4.0659		

Truck Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
0.4991	0.7576	0.0349	0.0013	0.0870	0.0346	121.9780		

Worker Emissions in Pounds per Mile								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
0.0065	0.0006	0.0001	0.0000	0.0007	0.0001	0.9613		

Worker Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
2.0725	0.1800	0.0275	0.0030	0.2351	0.0272	307.6184		

Total Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
5.5018	6.8833	0.3117	0.0142	0.9962	0.2836	1,340.9964		

Thresholds in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
550	100	150	150	75	55	NT		

Phase 4G - Hardscape and Landscape, 11/4/12 - 12/31/12

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	1	8	0.0425	0.0564	0.0029	0.0001	0.0093
Crane (250 hp)	0	0	0.3103	1.0712	0.0388	0.0013	0.1103
Other	0	0	0.3847	0.8599	0.0366	0.0013	0.0925
Masonry Saws	0	0	0.4148	0.5910	0.0491	0.0007	0.1090

Trucks, Heavy Diesel ¹	Days	Loads/Day	Distance	Daily Mi
Materials	20	1	30	30
Landscape	5	1	30	30

Worker Vehicles ²	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	24	20	480

¹ Based on Year 2012 Heavy Heavy Diesels >30,000 lb

² Based on a composite of Year 2012 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0026	7.2000	0.3400	0.4512	0.0232	0.0008	0.0744	0.0206	57.6000
0.0345	112.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0326	123.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0437	58.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Totals	0.3400	0.4512	0.0232	0.0008	0.0744	0.0206	57.6000

Truck Emissions in Pounds per Mile								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
0.0186	0.0283	0.0013	0.0000	0.0032	0.0013	4.0593		

Truck Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
1.1179	1.7008	0.0780	0.0027	0.1943	0.0772	243.5576		

Worker Emissions in Pounds per Mile								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
0.0070	0.0006	0.0001	0.0000	0.0008	0.0001	0.9623		

Worker Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
3.3613	0.2949	0.0409	0.0043	0.3758	0.0405	461.8858		

Total Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
4.8192	2.4469	0.1421	0.0079	0.6445	0.1383	763.0434		

Thresholds in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
550	100	150	150	75	55	NT		

Phase 4GG - Hardscape and Landscape, 11/1/13 - 3/20/13

	#/Day	Hrs/Day	Emissions in Pounds per Hour				
			CO	NOx	PM10	SOx	VOC
Concrete Mixer	1	8	0.0421	0.0556	0.0026	0.0001	0.0091
Crane (250 hp)	0	0	0.2948	0.9948	0.0351	0.0013	0.1040
Other	0	0	0.3765	0.7938	0.033	0.0013	0.0872
Masonry Saws	0	0	0.4088	0.5572	0.0452	0.0007	0.1002

Trucks, Heavy Diesel1	Days	Loads/Day	Distance	Daily Mi
Materials	20	1	30	30
Landscape	5	1	30	30

Worker Vehicles2	#/Day	Total Distance	Daily Mi
Vehicles <5,151 lbs	24	20	480

1 Based on Year 2013 Heavy Heavy Diesels >30,000 lb

2 Based on a composite of Year 2013 Autos and Light Trucks <5,151 lb

Emissions in Pounds per Day								
PM2.5	CO2	CO	NOx	PM10	SOx	VOC	PM2.5	CO2
0.0023	7.2000	0.3368	0.4448	0.0208	0.0008	0.0728	0.0185	57.6000
0.0312	112.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0294	123.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0402	58.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Totals	0.3368	0.4448	0.0208	0.0008	0.0728	0.0185	57.6000

Truck Emissions in Pounds per Mile								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
0.0166	0.0253	0.0012	0.0000	0.0029	0.0012	4.0659		

Truck Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
0.9982	1.5152	0.0699	0.0026	0.1741	0.0692	243.9560		

Worker Emissions in Pounds per Mile								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
0.0065	0.0006	0.0001	0.0000	0.0007	0.0001	0.9613		

Worker Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
3.1087	0.2699	0.0413	0.0046	0.3527	0.0409	461.4276		

Total Emissions in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
4.4437	2.2299	0.1320	0.0080	0.5995	0.1286	762.9836		

Thresholds in Pounds per Day								
CO	NOx	PM10	SOx	VOC	PM2.5	CO2		
550	100	150	150	75	55	NT		

Phase 4 - Interior Paint, 9/8/12 - 1/25/13

	# Days	Sq Ft	Times Area	Int Area	Total Area	# Coats	Gallons
Sub-Basement	120	11,088	2.7	0.75	22,453.20	3	374.22
Basement	120	11,604	2.7	0.75	23,498.10	3	391.64
First Floor	120	11,009	2.7	0.75	22,293.23	3	371.55
Second Floor	120	10,236	2.7	0.75	20,727.90	3	345.47
Third Floor	120	9,236	2.7	0.75	18,702.90	3	311.72
Fourth Floor	120	8,536	2.7	0.75	17,285.40	3	288.09

Phase 4 Exterior Paint, 10/1/12 - 11/3/12

	# Days	Sq Ft	Times Area	Ext Area	Total Area	# Coats	Gallons
Third Floor	30	9,236	2.7	0.25	6,234.30	1	34.64
Fourth Floor	30	8,536	2.7	0.25	5,761.80	1	32.01

Gr/L Daily	VOC
10	0.26
10	0.27
10	0.26
10	0.24
10	0.22
10	0.20
	1.45

Gr/L Daily	VOC
27	0.26
27	0.24
	0.50

APPENDIX B
URBEMIS2007 MODEL RESULTS FOR OPERATIONAL MOBILE-SOURCE EMISSIONS

Detail Report for Winter Operational Unmitigated Emissions (Pounds/Day)

File Name: C:\Documents and Settings\Todd\Application Data\Urbemis\Version9a\Projects\Aerie Operations.urb924

Project Name: Aerie

Project Location: Orange County

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

OPERATIONAL EMISSION ESTIMATES (Winter Pounds Per Day, Unmitigated)

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Condo/townhouse general	0.47	0.64	5.14	0.01	1.19	0.23	639.22
TOTALS (lbs/day, unmitigated)	0.47	0.64	5.14	0.01	1.19	0.23	639.22

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2013 Temperature (F): 60 Season: Winter

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Condo/townhouse general	1.40	8.57	dwelling units	8.00	68.56	692.65
					68.56	692.65

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	51.0	0.4	99.4	0.2

Vehicle Type	<u>Vehicle Fleet Mix</u>			Catalyst	Diesel
	Percent Type	Non-Catalyst			
Light Truck < 3750 lbs	7.0	1.4		95.7	2.9
Light Truck 3751-5750 lbs	24.0	0.0		100.0	0.0
Med Truck 5751-8500 lbs	10.8	0.0		100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.7	0.0		82.4	17.6
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0		60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0		22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.2	0.0		0.0	100.0
Other Bus	0.1	0.0		0.0	100.0
Urban Bus	0.0	0.0		0.0	0.0
Motorcycle	2.9	55.2		44.8	0.0
School Bus	0.1	0.0		0.0	100.0
Motor Home	0.8	0.0		87.5	12.5

Travel Conditions

	Residential			Commercial	
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work
Urban Trip Length (miles)	12.7	7.0	9.5	13.3	7.4
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1		
% of Trips - Commercial (by land use)					Customer

Operational Changes to Defaults

Detail Report for Summer Operational Unmitigated Emissions (Pounds/Day)

File Name: C:\Documents and Settings\Todd\Application Data\Urbemis\Version9a\Projects\Aerie Operations.urb924

Project Name: Aerie

Project Location: Orange County

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

OPERATIONAL EMISSION ESTIMATES (Summer Pounds Per Day, Unmitigated)

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Condo/townhouse general	0.44	0.53	5.43	0.01	1.19	0.23	707.74
TOTALS (lbs/day, unmitigated)	0.44	0.53	5.43	0.01	1.19	0.23	707.74

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2013 Temperature (F): 80 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Condo/townhouse general	1.40	8.57	dwelling units	8.00	68.56	692.65
					68.56	692.65

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	51.0	0.4	99.4	0.2

Vehicle Type	<u>Vehicle Fleet Mix</u>			Catalyst	Diesel
	Percent Type	Non-Catalyst			
Light Truck < 3750 lbs	7.0	1.4		95.7	2.9
Light Truck 3751-5750 lbs	24.0	0.0		100.0	0.0
Med Truck 5751-8500 lbs	10.8	0.0		100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.7	0.0		82.4	17.6
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0		60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0		22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.2	0.0		0.0	100.0
Other Bus	0.1	0.0		0.0	100.0
Urban Bus	0.0	0.0		0.0	0.0
Motorcycle	2.9	55.2		44.8	0.0
School Bus	0.1	0.0		0.0	0.0
Motor Home	0.8	0.0		87.5	100.0

Travel Conditions

	Residential				Commercial	
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	12.7	7.0	9.5	13.3	7.4	8.9
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			

% of Trips - Commercial (by land use)

Operational Changes to Defaults

APPENDIX C
URBEMIS2007 MODEL RESULTS FOR OPERATIONAL STATIONARY-SOURCE EMISSIONS

Detail Report for Summer Area Source Unmitigated Emissions (Pounds/Day)

File Name: C:\Documents and Settings\Todd\Application Data\Urbemis\Version9a\Projects\Aerie Operations.urb924

Project Name: Aerie

Project Location: Orange County

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

AREA SOURCE EMISSION ESTIMATES (Summer Pounds Per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.01	0.08	0.03	0.00	0.00	0.00	100.13
Hearth							
Landscape	0.12	0.02	1.55	0.00	0.01	0.01	2.81
Consumer Products	0.41						
Architectural Coatings	0.01						
TOTALS (lbs/day, unmitigated)	0.55	0.10	1.58	0.00	0.01	0.01	102.94

Area Source Changes to Defaults

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 3/3/2009
 Case Description: SoundPlan Calibration

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Calibration	Residential	35	35	35

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	50	0
Concrete Mixer Truck	No	40		78.8	50	0
Concrete Pump Truck	No	20		81.4	50	0
Excavator	No	40		80.7	50	0
Front End Loader	No	40		79.1	50	0
Excavator	No	40		80.7	50	0
Jackhammer	Yes	20		88.9	50	0
Drill Rig Truck	No	20		79.1	50	0
Hydra Break Ram	Yes	10		90	50	0
Pneumatic Tools	No	50		85.2	50	0
Tractor	No	40		84	50	0
Welder / Torch	No	40		74	50	0
Vibratory Concrete Mixer	No	20		80	50	0
Flat Bed Truck	No	40		74.3	50	0
Compressor (air)	No	40		77.7	50	0
Auger Drill Rig	No	20		84.4	50	0
Mounted Impact Hammer (hoe ram)	Yes	20		90.3	50	0
Dozer	No	40		81.7	50	0
Vibratory Concrete Mixer	No	20		80	50	0
Crane	No	16		80.6	50	0

Results

Equipment	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day	Leq	Evening	
			Lmax		Lmax	Leq
Backhoe	77.6		73.6	N/A	N/A	N/A
Concrete Mixer Truck	78.8		74.8	N/A	N/A	N/A
Concrete Pump Truck	81.4		74.4	N/A	N/A	N/A
Excavator	80.7		76.7	N/A	N/A	N/A
Front End Loader	79.1		75.1	N/A	N/A	N/A
Excavator	80.7		76.7	N/A	N/A	N/A
Jackhammer	88.9		81.9	N/A	N/A	N/A
Drill Rig Truck	79.1		72.2	N/A	N/A	N/A
Hydra Break Ram	90		80	N/A	N/A	N/A
Pneumatic Tools	85.2		82.2	N/A	N/A	N/A
Tractor	84		80	N/A	N/A	N/A
Welder / Torch	74		70	N/A	N/A	N/A
Vibratory Concrete Mixer	80		73	N/A	N/A	N/A
Flat Bed Truck	74.3		70.3	N/A	N/A	N/A
Compressor (air)	77.7		73.7	N/A	N/A	N/A
Auger Drill Rig	84.4		77.4	N/A	N/A	N/A
Mounted Impact Hammer (hoe ram)	90.3		83.3	N/A	N/A	N/A
Dozer	81.7		77.7	N/A	N/A	N/A
Vibratory Concrete Mixer	80		73	N/A	N/A	N/A
Crane	80.6		72.6	N/A	N/A	N/A
Total	90.3		90.7	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

**Federally Endangered, Threatened, Proposed, and Candidate Species that May Occur in the
Vicinity of Orange County, California**

December 12, 2008

Common Name	Scientific Name	Federal Status ¹
Santa Monica Mountains dudleya	<i>Dudleya cymosa</i> subsp. <i>ovatifolia</i>	threatened
Laguna Beach live-forever	<i>Dudleya stolonifera</i>	threatened
Santa Ana River woolly-star	<i>Eriastrum densifolium</i> subsp. <i>sanctorum</i>	endangered
Gambel's watercress	<i>Rorippa gambellii</i>	endangered
big-leaved crown beard	<i>Verbesina dissita</i>	threatened
<u>Invertebrates</u>		
San Diego fairy shrimp	<i>Branchinecta sandiegonensis</i>	endangered, CH
Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	endangered, PCH
Riverside fairy shrimp	<i>Streptocephalus woottoni</i>	endangered, CH
<u>Mammals</u>		
southern sea otter	<i>Enhydra lutris nereis</i>	threatened
Pacific pocket mouse	<i>Perognathus longimembris pacificus</i>	endangered

¹ CH – designated Critical Habitat
PCH – proposed Critical Habitat