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Huntington Beach Energy Project

(12-AFC-02)

Resubmission of Data Response, Set 4

(Updated Response to Data Request 104 [Air Quality])

Submitted to

California Energy Commission

Prepared by

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With Assistance from

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Attachments

Introduction

Attached is AES Southland Development, LLC's (AES or the Applicant) updated response to the California Energy Commission (CEC) Staff's Data Request, Set 4 (Air Quality, request 104) regarding the Huntington Beach Energy Project (HBEP) (12-AFC-02) Application for Certification (AFC).

The response is keyed to the Data Request number. New or revised tables are numbered in reference to the Data Request number and sequentially from the first Data Request submission. For example, the first table used in response to Data Request 104 would be numbered Table DR104-1, but a new table used in this revised response would be numbered Table DR104-11 as it is intended to follow sequentially from a previous submission. The first attachment used in response to Data Request 104 would be Attachment DR104-1, and so on, with the exception of new attachments numbered to follow sequentially from a previous submission. Tables or attachments from previous submissions that have been revised have "R1" or "R2" following the original number, indicating a first or second revision, respectively.

Air Quality (104)

BACKGROUND

Based on CEC Staff's review of the construction-related particulate matter (PM) emissions impacts presented in Applicant's resubmitted response to Data Request 104 (TN# 201570), Staff concluded that impacts of PM with an aerodynamic diameter less than or equal to 10 microns (PM_{10}) and PM with an aerodynamic diameter less than or equal to 2.5 microns ($PM_{2.5}$) during the construction period would be significant because they would cause exceedances of ambient air quality standards (AAQS).[1] As a result, CEC Staff recommended that the Applicant further revise HBEP construction-related PM emissions impacts for the Data Request 104 response.

DATA REQUEST

104. Please continue to refine the modeling, consider staggering construction activities to reduce concurrent emissions, and implement additional mitigation measures to reduce construction emissions and potential impacts.

Response: Applicant's response to CEC Staff's Data Request 104 using five (5) years of data (2008 to 2012) collected at the John Wayne Airport meteorological monitoring station, owned and operated by the National Weather Service (NWS), in conjunction with the corresponding 1-minute automated surface observational system (ASOS) data,[2] was submitted to the CEC on November 4, 2013. Following this submission, CEC Staff identified errors in the documentation for the fugitive dust construction emission calculations. As such, portions of the response to Data Request 104 related to construction emission estimates were revised and submitted to the CEC on January 15, 2014. Following this submission, CEC Staff concluded in the Preliminary Staff Assessment Part B that PM_{10} and $PM_{2.5}$ construction-related impacts were still significant and needed to be further revised. Based on CEC Staff's recommendations, Applicant conducted additional modeling and incorporated additional mitigation measures into the construction emission estimates. The revised results are presented below.

Construction Impacts Analysis

The dispersion modeling for the HBEP construction impacts analysis followed the methodology outlined in the original response to Data Request 104, which was submitted to the CEC on November 4, 2013, with one exception. For this submission, the receptor grid was revised to exclude receptors located within the Southern California Edison (SCE) switchyard. These receptors were reasonably excluded because access to the switchyard is controlled through the AES property. Additionally, the construction emission estimates were revised to incorporate proposed Condition of Certification AQ-SC3, Construction Fugitive Dust Control, which requires the use of soil stabilizers in place of watering unpaved roads and disturbed areas. This revision increased the fugitive dust control efficiency for unpaved roads, grading, and bulldozing activities to 84 percent, per Tables XI-A and XI-D of the South Coast Air Quality Management District (SCAQMD) California Environmental Quality Act (CEQA) Handbook. The revised construction emission estimates are included in Attachment DR104-5R2.

Table DR104-11, which is a revision to the PM impacts presented in Data Request 104 Table DR104-1R2, indicates that the 24-hour $PM_{2.5}$ construction impact combined with the 98th percentile 24-hour background concentration will be below the 24-hour federal AAQS. Therefore, HBEP construction will not

[1] Please refer to Page 4.1-1 of the CEC's Preliminary Staff Assessment Part B (TN 201839).

[2] Twice-daily National Climatic Data Center soundings from the San Diego Miramar NWS station (Station #03190) were also utilized in developing the AERMOD-ready meteorological data file.

cause or contribute to the violation of the 24-hour $PM_{2.5}$ standard and the 24-hour $PM_{2.5}$ impacts will be less than significant.

The annual PM_{10} background concentration exceeds the state AAQS without adding the modeled concentrations. In addition, the 24-hour PM_{10} and annual $PM_{2.5}$ background concentrations nearly equal the state AAQS without adding the modeled concentrations. As a result, the predicted 24-hour PM_{10} and annual PM_{10} and $PM_{2.5}$ construction impacts combined with the background concentrations will be greater than the AAQS and could potentially contribute to a violation of the standards. Based on the modeling analysis, fugitive dust is a significant contributor to the predicted concentrations, but the maximum PM_{10} and $PM_{2.5}$ concentrations will remain near the property boundary.

A summary of the dispersion modeling input files for this scenario, as well as the complete modeling results, are presented in Attachment DR104-6, which is a partial revision to Data Request 104 Attachment DR104-2R2. The AERMOD input and output files have been separately prepared and are included with this submission on CD.

TABLE DR104-11
Maximum Modeled PM Impacts from Construction and the Ambient Air Quality Standards

Pollutant	Averaging Period	Maximum Modeled Concentration ($\mu g/m^3$)	Background Concentration [a] ($\mu g/m^3$)	Total Predicted Concentration ($\mu g/m^3$)	State Standard ($\mu g/m^3$)	Federal Standard ($\mu g/m^3$)
PM_{10}	24-hour	14.6	45.0	59.6	50	150
	Annual	2.31	24.2	26.5	20	—
$PM_{2.5}$	24-hour [b]	4.71	27.5	32.2	—	35
	Annual	1.32	11.0	12.3	12	12

[a] Consistent with the CEC's Preliminary Staff Assessment Part B (TN 201839), background concentrations were the highest concentrations monitored during 2010 through 2012 at the North Long Beach monitoring station, unless otherwise noted.
[b] Total predicted concentration for the federal 24-hour $PM_{2.5}$ standard is the maximum modeled concentration combined with the 3-year average of 98th percentile background concentrations.

$\mu g/m^3$ = micrograms per cubic meter

Air Quality Improvement Projects

As described in Applicant's January 15, 2014 revised response to Data Request 104, all potential HBEP air quality impacts resulting from construction and operation will be mitigated to less-than-significant levels through a combination of emission offsets, air quality improvement projects, and the permanent shutdown of existing electrical utility steam boilers. Under the provisions of SCAQMD Rule 1304(a)(2) and Regulation XX Regional Clean Air Incentives Market (RECLAIM), all emissions of state and federal non-attainment pollutants or their precursors will be offset through the retirement of PM_{10} and volatile organic compound (VOC) offsets from the SCAQMD internal bank of offsets and the Reclaim Trading Credit (RTC) requirements for oxides of nitrogen (NO_x) and sulfur dioxide (SO_2). In addition to the retired offsets and RTCs, the HBEP will result in the permanent closure and retirement of Huntington Beach Generating Station Units 1 and 2 and Redondo Beach Generating Station Units 6 and 8, thereby eliminating all emissions from these additional sources. HBEP will also be subject to SCAQMD Rule 1304.1 fees, estimated at over $70 million dollars, which must be used to fund air quality improvement projects consistent with the SCAQMD's Air Quality Management Plan, with a priority for air quality improvement projects in the communities surrounding the location of the subject electrical generating facility.

Applicant expects the above actions (i.e., combination of emission offsets, participation in RECLAIM, the shutdown of existing sources, and the funding of over $70 million in air quality improvement projects) to mitigate all potential air quality impacts from the construction and operation of HBEP to a less than significant level. However, CEC Staff suggested that these actions would not alone mitigate construction-related fugitive dust impacts to a less than significant level due to the spatial and temporal nature of these reductions. Rather, CEC Staff recommended that Applicant fund additional air quality improvement projects

that would occur simultaneously with the construction period. Therefore, to further mitigate any potential construction-related fugitive dust impacts to a less than significant level, Applicant proposes to sweep roadways in the project vicinity during the construction period with SCAQMD-certified street sweepers.

The number of miles of sweeping required to reduce local emissions to less than significant levels were calculated from the emissions reduction needed, the control efficiency achieved by sweeping frequency, fugitive dust emission factors for paved roads (see Attachment DR104-5R2), and an assumed daily vehicle volume. For purposes of this analysis, the daily vehicle volume was taken from Tables 5.12-4 and 5.12-7 of the HBEP AFC, assuming only the Pacific Coast Highway will be swept since it will be most affected by the HBEP construction activities.

The PM_{10} emissions reduction needed was based on the estimated maximum daily emission rate resulting in a 24-hour modeled impact that, when combined with a background concentration of 45 micrograms per cubic meter ($\mu g/m^3$), would be less than the AAQS. Based on the modeling results presented in Table DR104-11, this would require a reduction of approximately 66 percent in emissions during the worst-case month of construction. Similarly, the $PM_{2.5}$ emissions reduction needed was based on the estimated annual emission rate resulting in an annual modeled impact that, when combined with a background concentration of 11.0 $\mu g/m^3$, would be less than the AAQS. Based on the modeling results presented in Table DR104-11, this would require a reduction of approximately 24 percent in emissions during the worst-case year of construction.

Based on results presented in Table DR104-12, AES proposes to sweep 3.5 miles once per month for the duration of the construction period to achieve the necessary PM emissions reductions to assure the modeled PM impacts, combined with background concentrations, are below the applicable AAQS. As such, street sweeping would improve air quality in the project vicinity concurrently with construction activities, thereby mitigating construction-related fugitive dust impacts to less than significant. The detailed street sweeper emissions calculations are presented in Attachment DR104-6 and include an estimate of the number of miles of sweeping required for the daily construction emissions associated with each of the overlap scenarios.

TABLE DR104-12
Estimate of Street Sweeping Miles

Pollutant	Emissions Reduction Needed (lb/day)	Street Sweeping Once per Month	
		Control Efficiency [a]	Miles to Sweep
PM_{10}	8.26	9%	3.34
$PM_{2.5}$	0.79	9%	1.28

[a] Control efficiencies were taken from Table XI-C of the SCAQMD CEQA Handbook for street sweeping local, arterial, and collector streets.

Construction Overlap Impacts Analysis

The dispersion modeling for the HBEP construction overlap impacts analysis followed the methodology outlined in the original response to Data Request 104, which was submitted to the CEC on November 4, 2013, with one exception. As noted previously, this submission includes a revised receptor grid that excludes receptors located within the SCE switchyard because switchyard access is controlled through the AES property. Additionally, the fugitive dust control efficiency was revised to reflect the use of soil stabilizers on unpaved roads and disturbed areas during construction activities.

Block 1 Operation with Construction of Block 2

Table DR104-13, which is a revision to the PM impacts presented in Data Request 104 Table DR104-8R, indicates that the maximum modeled $PM_{2.5}$ concentrations combined with the background concentrations do not exceed the AAQS. Therefore, Block 1 operation with construction of Block 2 will not cause or contribute to the violation of a $PM_{2.5}$ standard and the $PM_{2.5}$ impacts will be less than significant.

The annual PM_{10} background concentration exceeds the state AAQS without adding the modeled concentration. In addition, the 24-hour PM_{10} background concentration nearly equals the state AAQS without adding the modeled concentration. As a result, the predicted 24-hour and annual PM_{10} construction impacts combined with the background concentrations will be greater than the AAQS and could potentially contribute to a violation of the standards. Based on the modeling analysis, although fugitive dust is a significant contributor to the predicted concentrations, the maximum PM_{10} and $PM_{2.5}$ concentrations will remain at or near the property boundary.

As noted above, AES proposes to perform 3.5 miles of street sweeping per month during the duration of the construction period to reduce the construction PM_{10} and $PM_{2.5}$ impacts to less than significant levels. The HBEP Block 1 operational PM_{10} and $PM_{2.5}$ impacts will be mitigated through surrender of emission reduction credits consistent with South Coast Air Quality Management District Rule 1304(a)(2). Therefore, construction air quality impacts from the operation of HBEP Block 1 and construction of Block 2 are less than significant.

A summary of the dispersion modeling input files for this scenario, as well as the complete modeling results, are presented in Attachment DR104-7, which is a partial revision to Data Request 104 Attachment DR104-4R2. The AERMOD input and output files have been separately prepared and are included with this submission on DVD.

TABLE DR104-13
Maximum Modeled PM Impacts from Block 1 Operation with Construction of Block 2 and the Ambient Air Quality Standards

Pollutant	Averaging Period	Maximum Modeled Concentration ($\mu g/m^3$)	Background Concentration [a] ($\mu g/m^3$)	Total Predicted Concentration ($\mu g/m^3$)	State Standard ($\mu g/m^3$)	Federal Standard ($\mu g/m^3$)
PM_{10}	24-hour	7.60	45.0	52.6	50	150
	Annual	1.25	24.2	25.5	20	—
$PM_{2.5}$	24-hour [b]	1.41	27.5	28.9	—	35
	Annual	0.24	11.0	11.2	12	12

[a] Consistent with the CEC's Preliminary Staff Assessment Part B (TN 201839), background concentrations were the highest concentrations monitored during 2010 through 2012 at the North Long Beach monitoring station, unless otherwise noted.
[b] Total predicted concentration for the federal 24-hour $PM_{2.5}$ standard is the maximum modeled concentration combined with the 3-year average of 98th percentile background concentrations.

HBEP Operation with Demolition of Huntington Beach Generating Station Units 1 and 2

Table DR104-14, which is a revision to the PM impacts presented in Data Request 104 Table DR104-9R2, indicates that the maximum modeled $PM_{2.5}$ concentrations combined with the background concentrations do not exceed the AAQS. Therefore, operation of HBEP (Blocks 1 and 2) with demolition of Huntington Beach Generating Station Units 1 and 2 will not cause or contribute to the violation of a $PM_{2.5}$ standard and the $PM_{2.5}$ impacts will be less than significant.

The annual PM_{10} background concentration exceeds the state AAQS without adding the modeled concentration. In addition, the 24-hour PM_{10} background concentration nearly equals the state AAQS without adding the modeled concentration. As a result, the predicted 24-hour and annual PM_{10} construction impacts combined with the background concentrations will be greater than the AAQS and could potentially contribute to a violation of the standards. Based on the modeling analysis, although fugitive dust is a significant contributor to the predicted concentrations, the maximum PM_{10} and $PM_{2.5}$ concentrations will remain at or near the property boundary.

As noted above, AES proposes to perform 3.5 miles of street sweeping per month during the duration of the construction period to reduce the construction PM_{10} and $PM_{2.5}$ impacts to less than significant levels. The HBEP operational PM_{10} and $PM_{2.5}$ impacts will be mitigated through surrender of emission reduction credits

consistent with South Coast Air Quality Management District Rule 1304(a)(2). Therefore, construction air quality impacts from the operation of HBEP and demolition of Huntington Beach Generation Station Units 1 and 2 are less than significant.

A summary of the dispersion modeling input files for this scenario, as well as the complete modeling results, are presented in Attachment DR104-8, which is a partial revision to Data Request 104 Attachment DR104-4R2. The AERMOD input and output files have been separately prepared and are included with this submission on DVD.

TABLE DR104-14
Maximum Modeled PM Impacts from HBEP Operation with Demolition of Units 1 and 2 and the Ambient Air Quality Standards

Pollutant	Averaging Period	Maximum Modeled Concentration ($\mu g/m^3$)	Background Concentration [a] ($\mu g/m^3$)	Total Predicted Concentration ($\mu g/m^3$)	State Standard ($\mu g/m^3$)	Federal Standard ($\mu g/m^3$)
PM_{10}	24-hour	16.1	45.0	61.1	50	150
	Annual	2.81	24.2	27.0	20	—
$PM_{2.5}$	24-hour [b]	3.70	27.5	31.2	—	35
	Annual	0.56	11.0	11.6	12	12

[a] Consistent with the CEC's Preliminary Staff Assessment Part B (TN 201839), background concentrations were the highest concentrations monitored during 2010 through 2012 at the North Long Beach monitoring station, unless otherwise noted.
[b] Total predicted concentration for the federal 24-hour $PM_{2.5}$ standard is the maximum modeled concentration combined with the 3-year average of 98th percentile background concentrations.

HBEP Construction and Demolition of Huntington Beach Generating Station Units 3 and 4

Table DR104-15, which is a revision to the PM impacts presented in Data Request 104 Table DR104-10R2, indicates that the 24-hour $PM_{2.5}$ construction impact combined with the 98th percentile 24-hour background concentration will be below the 24-hour federal AAQS. Therefore, HBEP construction will not cause or contribute to the violation of the 24-hour $PM_{2.5}$ standard and the 24-hour $PM_{2.5}$ impacts will be less than significant.

The annual PM_{10} background concentration exceeds the state AAQS without adding the modeled concentration. In addition, the 24-hour PM_{10} and annual $PM_{2.5}$ background concentrations nearly equal the state AAQS without adding the modeled concentrations. As a result, the predicted 24-hour PM_{10} and annual PM_{10} and $PM_{2.5}$ construction impacts combined with the background concentrations will be greater than the AAQS and could potentially contribute to a violation of the standards. Based on the modeling analysis, although fugitive dust is a significant contributor to the predicted concentrations, the maximum PM_{10} and $PM_{2.5}$ concentrations will remain at or near the property boundary.

As noted above, AES proposes to perform 3.5 miles of street sweeping per month during the duration of the construction period to reduce the construction PM_{10} and $PM_{2.5}$ impacts to less than significant levels.

A summary of the dispersion modeling input files for this scenario, as well as the complete modeling results, are presented in Attachment DR104-9, which is a partial revision to Data Request 104 Attachment DR104-4R2. The AERMOD input and output files have been separately prepared and are included with this submission on DVD.

TABLE DR104-15

Maximum Modeled PM Impacts from HBEP Construction and Demolition of Units 3 and 4 and the Ambient Air Quality Standards

Pollutant	Averaging Period	Maximum Modeled Concentration ($\mu g/m^3$)	Background Concentration [a] ($\mu g/m^3$)	Total Predicted Concentration ($\mu g/m^3$)	State Standard ($\mu g/m^3$)	Federal Standard ($\mu g/m^3$)
PM_{10}	24-hour	15.0	45.0	60.0	50	150
	Annual	4.80	24.2	29.0	20	—
$PM_{2.5}$	24-hour [b]	4.29	27.5	31.8	—	35
	Annual	1.27	11.0	12.3	12	12

[a] Consistent with the CEC's Preliminary Staff Assessment Part B (TN 201839), background concentrations were the highest concentrations monitored during 2010 through 2012 at the North Long Beach monitoring station, unless otherwise noted.

[b] Total predicted concentration for the federal 24-hour $PM_{2.5}$ standard is the maximum modeled concentration combined with the 3-year average of 98th percentile background concentrations.

Attachment DR104-5R2
Revised Appendix 5.1A, Construction Emission Calculations

APPENDIX 5.1A-R

Construction Emission Estimates

(Criteria and Greenhouse Gas)

Tables 5.1A.1R through 5.1A.9R summarize the construction emissions from the demolition of the existing Peaker 5 unit and storage tank and stack 3 and 4.

Table 5.1A.1R	Onsite Construction Equipment Exhaust Emissions
Table 5.1A.2R	Onsite Motor Vehicle Exhaust Emissions
Table 5.1A.3R	Onsite Demolition Fugitive Dust Emissions
Table 5.1A.4R	Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions
Table 5.1A.5R	Equations Used to Calculate Criteria Pollutant and GHG Emissions
Table 5.1A.6R	Number of Onsite Construction Equipment and Motor Vehicles
Table 5.1A.7R	Construction Equipment Exhaust Criteria Pollutant Emission Factors
Table 5.1A.8R	Onsite and Offsite Motor Vehicle Criteria Pollutant Emission Factors
Table 5.1A.9R	Onsite and Offsite Greenhouse Gas Emission Factors

Tables 5.1A.10R through 5.1A.18R summarize the construction emissions from the construction of Block 1.

Table 5.1A.10R	Onsite Construction Equipment Exhaust Emissions
Table 5.1A.11R	Onsite Motor Vehicle Exhaust Emissions
Table 5.1A.12R	Onsite Construction Fugitive Dust Emissions
Table 5.1A.13R	Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions
Table 5.1A.14R	Equations Used to Calculate Criteria Pollutant and GHG Emissions
Table 5.1A.15R	Number of Onsite Construction Equipment and Motor Vehicles
Table 5.1A.16R	Construction Equipment Exhaust Criteria Pollutant Emission Factors
Table 5.1A.17R	Onsite and Offsite Motor Vehicle Criteria Pollutant Emission Factors
Table 5.1A.18R	Onsite and Offsite Greenhouse Gas Emission Factors

Tables 5.1A.19R through 5.1A.27R summarize the construction emissions from the construction of Block 2.

Table 5.1A.19R	Onsite Construction Equipment Exhaust Emissions
Table 5.1A.20R	Onsite Motor Vehicle Exhaust Emissions
Table 5.1A.21R	Onsite Construction Fugitive Dust Emissions
Table 5.1A.22R	Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions
Table 5.1A.23R	Equations Used to Calculate Criteria Pollutant and GHG Emissions
Table 5.1A.24R	Number of Onsite Construction Equipment and Motor Vehicles
Table 5.1A.25R	Construction Equipment Exhaust Criteria Pollutant Emission Factors
Table 5.1A.26R	Onsite and Offsite Motor Vehicle Criteria Pollutant Emission Factors
Table 5.1A.27R	Onsite and Offsite Greenhouse Gas Emission Factors

Tables 5.1A.28R through 5.1A.36R summarize the construction emissions from the demolition of existing Units 1 and 2.

Table 5.1A.28R	Onsite Construction Equipment Exhaust Emissions

Table 5.1A.29R Onsite Motor Vehicle Exhaust Emissions
Table 5.1A.30R Onsite Demolition Fugitive Dust Emissions
Table 5.1A.31R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions
Table 5.1A.32R Equations Used to Calculate Criteria Pollutant and GHG Emissions
Table 5.1A.33R Number of Onsite Construction Equipment and Motor Vehicles
Table 5.1A.34R Construction Equipment Exhaust Criteria Pollutant Emission Factors
Table 5.1A.35R Onsite and Offsite Motor Vehicle Criteria Pollutant Emission Factors
Table 5.1A.36R Onsite and Offsite Greenhouse Gas Emission Factors

Tables 5.1A.37R through 5.1A.45R summarize the construction emissions from the construction of Buildings 33 and 34.

Table 5.1A.37R Onsite Construction Equipment Exhaust Emissions
Table 5.1A.38R Onsite Motor Vehicle Exhaust Emissions
Table 5.1A.39R Onsite Construction Fugitive Dust Emissions
Table 5.1A.40R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions
Table 5.1A.41R Equations Used to Calculate Criteria Pollutant and GHG Emissions
Table 5.1A.42R Number of Onsite Construction Equipment and Motor Vehicles
Table 5.1A.43R Construction Equipment Exhaust Criteria Pollutant Emission Factors
Table 5.1A.44R Onsite and Offsite Motor Vehicle Criteria Pollutant Emission Factors
Table 5.1A.45R Onsite and Offsite Greenhouse Gas Emission Factors

Tables 5.1A.46R through 5.1A.48R summarize the construction emissions from all stages of the project.

Table 5.1A.46R Onsite Construction Exhaust and Fugitive Emissions Summary
Table 5.1A.47R Offsite Construction Exhaust and Fugitive Emissions Summary
Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Tables 5.1A.49R through 5.1A.57R summarize the construction emissions from the demolition of existing Units 3 and 4.

Table 5.1A.49R Onsite Construction Equipment Exhaust Emissions
Table 5.1A.50R Onsite Motor Vehicle Exhaust Emissions
Table 5.1A.51R Onsite Demolition Fugitive Dust Emissions
Table 5.1A.52R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions
Table 5.1A.53R Equations Used to Calculate Criteria Pollutant and GHG Emissions
Table 5.1A.54R Number of Onsite Construction Equipment and Motor Vehicles
Table 5.1A.55R Construction Equipment Exhaust Criteria Pollutant Emission Factors
Table 5.1A.56R Onsite and Offsite Motor Vehicle Criteria Pollutant Emission Factors
Table 5.1A.57R Onsite and Offsite Greenhouse Gas Emission Factors

Tables 5.1A.58R through 5.1A.60R summarize the construction emissions from all stages of the project and cumulative projects.

Table 5.1A.58R Onsite Construction Exhaust and Fugitive Emissions Summary
Table 5.1A.59R Offsite Construction Exhaust and Fugitive Emissions Summary
Table 5.1A.60R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Huntington Beach Energy Project
Construction Emission Estimates - Peaker and Tank Area and Stack 3 and 4 Demolition
April 2014

Table 5.1A.1R Onsite Construction Equipment Exhaust Emissions

Construction Equipment CO Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	CO Emisisons (lbs/month)														
Onsite Equipment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Water Truck	68.33	68.33	68.33	68.33	68.33	68.33	68.33	68.33	68.33	68.33	68.33	68.33	68.33	68.33	68.33
Excavator	129.94	129.94	129.94	259.88	259.88	259.88	259.88	259.88	389.83	389.83	389.83	389.83	389.83	389.83	389.83
Grader	134.53	134.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	134.53	134.53	134.53
Cranes	0.00	0.00	81.01	121.51	121.51	121.51	121.51	121.51	121.51	81.01	81.01	81.01	81.01	81.01	81.01
Tractor/Loader/Backhoe	43.98	43.98	43.98	43.98	43.98	43.98	43.98	43.98	43.98	43.98	43.98	43.98	43.98	43.98	43.98
Rubber Tired Loader	51.69	51.69	51.69	51.69	51.69	51.69	51.69	51.69	51.69	51.69	51.69	51.69	51.69	51.69	51.69
Crawler Tractor	87.75	87.75	87.75	87.75	87.75	87.75	87.75	87.75	87.75	87.75	87.75	87.75	87.75	87.75	87.75
Air Compressor	58.32	58.32	116.64	116.64	116.64	116.64	116.64	116.64	116.64	116.64	116.64	116.64	116.64	116.64	116.64
Forklift	0.00	0.00	57.07	57.07	114.13	114.13	114.13	114.13	114.13	114.13	114.13	57.07	57.07	57.07	57.07
Roller	64.33	64.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.33	64.33	64.33	64.33
Onsite Total (lbs/month)	**638.86**	**638.86**	**636.40**	**806.84**	**863.91**	**863.91**	**863.91**	**863.91**	**993.85**	**953.34**	**953.34**	**960.61**	**1,095.14**	**1,095.14**	**1,095.14**
Onsite Total (lbs/day) [a]	**27.78**	**27.78**	**27.67**	**35.08**	**37.56**	**37.56**	**37.56**	**37.56**	**43.21**	**41.45**	**41.45**	**41.77**	**47.61**	**47.61**	**47.61**
Onsite Total (tons/year)	**5.70**														

Construction Equipment VOC Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	VOC Emisisons (lbs/month)														
Onsite Equipment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Water Truck	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46
Excavator	20.52	20.52	20.52	41.04	41.04	41.04	41.04	41.04	61.56	61.56	61.56	61.56	61.56	61.56	61.56
Grader	23.85	23.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.85	23.85	23.85
Cranes	0.00	0.00	27.59	41.39	41.39	41.39	41.39	41.39	41.39	27.59	27.59	27.59	27.59	27.59	27.59
Tractor/Loader/Backhoe	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
Rubber Tired Loader	10.55	10.55	10.55	10.55	10.55	10.55	10.55	10.55	10.55	10.55	10.55	10.55	10.55	10.55	10.55
Crawler Tractor	21.01	21.01	21.01	21.01	21.01	21.01	21.01	21.01	21.01	21.01	21.01	21.01	21.01	21.01	21.01
Air Compressor	12.47	12.47	24.94	24.94	24.94	24.94	24.94	24.94	24.94	24.94	24.94	24.94	24.94	24.94	24.94
Forklift	0.00	0.00	8.28	8.28	16.56	16.56	16.56	16.56	16.56	16.56	16.56	8.28	8.28	8.28	8.28
Roller	13.77	13.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.77	13.77	13.77	13.77
Onsite Total (lbs/month)	**131.92**	**131.92**	**142.63**	**176.95**	**185.22**	**185.22**	**185.22**	**185.22**	**205.74**	**191.95**	**191.95**	**197.44**	**221.29**	**221.29**	**221.29**
Onsite Total (lbs/day) [a]	**5.74**	**5.74**	**6.20**	**7.69**	**8.05**	**8.05**	**8.05**	**8.05**	**8.95**	**8.35**	**8.35**	**8.58**	**9.62**	**9.62**	**9.62**
Onsite Total (tons/year)	**1.18**														

Construction Equipment NOx Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	NOx Emissions (lbs/month)														
Onsite Equipment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Water Truck	162.75	162.75	162.75	162.75	162.75	162.75	162.75	162.75	162.75	143.87	143.87	143.87	143.87	143.87	143.87
Excavator	144.68	144.68	144.68	289.35	289.35	289.35	289.35	289.35	434.03	384.50	384.50	384.50	384.50	384.50	384.50
Grader	175.25	175.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	158.54	158.54	158.54
Cranes	0.00	0.00	247.44	371.16	371.16	371.16	371.16	371.16	371.16	225.10	225.10	225.10	225.10	225.10	225.10
Tractor/Loader/Backhoe	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	44.57	44.57	44.57	44.57	44.57	44.57
Rubber Tired Loader	66.05	66.05	66.05	66.05	66.05	66.05	66.05	66.05	66.05	61.02	61.02	61.02	61.02	61.02	61.02
Crawler Tractor	125.28	125.28	125.28	125.28	125.28	125.28	125.28	125.28	125.28	117.26	117.26	117.26	117.26	117.26	117.26
Air Compressor	78.82	78.82	157.64	157.64	157.64	157.64	157.64	157.64	157.64	145.49	145.49	145.49	145.49	145.49	145.49
Forklift	0.00	0.00	58.75	58.75	117.50	117.50	117.50	117.50	117.50	104.10	104.10	52.05	52.05	52.05	52.05
Roller	88.42	88.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.23	82.23	82.23	82.23
Onsite Total (lbs/month)	**890.17**	**890.17**	**1,011.50**	**1,279.90**	**1,338.65**	**1,338.65**	**1,338.65**	**1,338.65**	**1,483.32**	**1,225.90**	**1,225.90**	**1,256.08**	**1,414.62**	**1,414.62**	**1,414.62**
Onsite Total (lbs/day) [a]	**38.70**	**38.70**	**43.98**	**55.65**	**58.20**	**58.20**	**58.20**	**58.20**	**64.49**	**53.30**	**53.30**	**54.61**	**61.51**	**61.51**	**61.51**
Onsite Total (tons/year)	**8.03**														

Table 5.1A.1R Onsite Construction Equipment Exhaust Emissions

Construction Equipment SOx Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	SOx Emissions (lbs/month)														
Onsite Equipment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Water Truck	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Excavator	0.23	0.23	0.23	0.46	0.46	0.46	0.46	0.46	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Grader	0.24	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.24	0.24
Cranes	0.00	0.00	0.35	0.53	0.53	0.53	0.53	0.53	0.53	0.35	0.35	0.35	0.35	0.35	0.35
Tractor/Loader/Backhoe	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Rubber Tired Loader	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Crawler Tractor	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Air Compressor	0.09	0.09	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Forklift	0.00	0.00	0.10	0.10	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.10	0.10	0.10	0.10
Roller	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.10	0.10
Onsite Total (lbs/month)	**1.21**	**1.21**	**1.42**	**1.83**	**1.93**	**1.93**	**1.93**	**1.93**	**2.16**	**1.98**	**1.98**	**1.98**	**2.22**	**2.22**	**2.22**
Onsite Total (lbs/day) [a]	**0.05**	**0.05**	**0.06**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.09**	**0.09**	**0.09**	**0.09**	**0.10**	**0.10**	**0.10**
Onsite Total (tons/year)	**0.01**														

Construction Equipment PM_{10} Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	PM_{10} Emissions (lbs/month)														
Onsite Equipment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Water Truck	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.12	5.12	5.12	5.12	5.12	5.12
Excavator	7.87	7.87	7.87	15.74	15.74	15.74	15.74	15.74	23.60	20.71	20.71	20.71	20.71	20.71	20.71
Grader	9.66	9.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.74	8.74	8.74
Cranes	0.00	0.00	8.55	12.82	12.82	12.82	12.82	12.82	12.82	7.72	7.72	7.72	7.72	7.72	7.72
Tractor/Loader/Backhoe	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.20	3.20	3.20	3.20	3.20	3.20
Rubber Tired Loader	5.44	5.44	5.44	5.44	5.44	5.44	5.44	5.44	5.44	4.89	4.89	4.89	4.89	4.89	4.89
Crawler Tractor	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	9.79	9.79	9.79	9.79	9.79	9.79
Air Compressor	6.77	6.77	13.55	13.55	13.55	13.55	13.55	13.55	13.55	12.06	12.06	12.06	12.06	12.06	12.06
Forklift	0.00	0.00	3.20	3.20	6.39	6.39	6.39	6.39	6.39	5.64	5.64	2.82	2.82	2.82	2.82
Roller	7.30	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.68	6.68	6.68	6.68
Onsite Total (lbs/month)	**57.17**	**57.17**	**58.73**	**70.87**	**74.06**	**74.06**	**74.06**	**74.06**	**81.93**	**69.14**	**69.14**	**72.99**	**81.73**	**81.73**	**81.73**
Onsite Total (lbs/day) [a]	**2.49**	**2.49**	**2.55**	**3.08**	**3.22**	**3.22**	**3.22**	**3.22**	**3.56**	**3.01**	**3.01**	**3.17**	**3.55**	**3.55**	**3.55**
Onsite Total (tons/year)	**0.45**														

Construction Equipment $PM_{2.5}$ Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	$PM_{2.5}$ Emissions (lbs/month)														
Onsite Equipment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Water Truck	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.12	5.12	5.12	5.12	5.12	5.12
Excavator	7.87	7.87	7.87	15.74	15.74	15.74	15.74	15.74	23.60	20.71	20.71	20.71	20.71	20.71	20.71
Grader	9.66	9.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.74	8.74	8.74
Cranes	0.00	0.00	8.55	12.82	12.82	12.82	12.82	12.82	12.82	7.72	7.72	7.72	7.72	7.72	7.72
Tractor/Loader/Backhoe	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.20	3.20	3.20	3.20	3.20	3.20
Rubber Tired Loader	5.44	5.44	5.44	5.44	5.44	5.44	5.44	5.44	5.44	4.89	4.89	4.89	4.89	4.89	4.89
Crawler Tractor	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	9.79	9.79	9.79	9.79	9.79	9.79
Air Compressor	6.77	6.77	13.55	13.55	13.55	13.55	13.55	13.55	13.55	12.06	12.06	12.06	12.06	12.06	12.06
Forklift	0.00	0.00	3.20	3.20	6.39	6.39	6.39	6.39	6.39	5.64	5.64	2.82	2.82	2.82	2.82
Roller	7.30	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.68	6.68	6.68	6.68
Onsite Total (lbs/month)	**57.17**	**57.17**	**58.73**	**70.87**	**74.06**	**74.06**	**74.06**	**74.06**	**81.93**	**69.14**	**69.14**	**72.99**	**81.73**	**81.73**	**81.73**
Onsite Total (lbs/day) [a]	**2.49**	**2.49**	**2.55**	**3.08**	**3.22**	**3.22**	**3.22**	**3.22**	**3.56**	**3.01**	**3.01**	**3.17**	**3.55**	**3.55**	**3.55**
Onsite Total (tons/year)	**0.45**														

Table 5.1A.1R Onsite Construction Equipment Exhaust Emissions

Construction Equipment CO_2 Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	CO_2 Emissions (metric tons/month)														
Onsite Equipment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Water Truck	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48
Excavator	10.20	10.20	10.20	20.40	20.40	20.40	20.40	20.40	30.60	30.60	30.60	30.60	30.60	30.60	30.60
Grader	10.61	10.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.61	10.61	10.61
Cranes	0.00	0.00	15.51	23.26	23.26	23.26	23.26	23.26	23.26	15.51	15.51	15.51	15.51	15.51	15.51
Tractor/Loader/Backhoe	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05
Rubber Tired Loader	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47
Crawler Tractor	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67
Air Compressor	4.04	4.04	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08
Forklift	0.00	0.00	4.49	4.49	8.98	8.98	8.98	8.98	8.98	8.98	8.98	4.49	4.49	4.49	4.49
Roller	4.44	4.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.44	4.44	4.44	4.44
Onsite Total (metric tons/month)	**55.96**	**55.96**	**64.95**	**82.90**	**87.40**	**87.40**	**87.40**	**87.40**	**97.60**	**89.84**	**89.84**	**89.79**	**100.40**	**100.40**	**100.40**
Onsite Total (metric tons/day) [a]	**2.43**	**2.43**	**2.82**	**3.60**	**3.80**	**3.80**	**3.80**	**3.80**	**4.24**	**3.91**	**3.91**	**3.90**	**4.37**	**4.37**	**4.37**
Onsite Total (metric tons/year)	**1,100.76**														

Construction Equipment N_2O Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	N_2O Emissions (metric tons/month)														
Onsite Equipment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Water Truck	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004
Excavator	0.0003	0.0003	0.0003	0.0005	0.0005	0.0005	0.0005	0.0005	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
Grader	0.0003	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0003	0.0003	0.0003
Cranes	0.0000	0.0000	0.0004	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004
Tractor/Loader/Backhoe	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Rubber Tired Loader	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Crawler Tractor	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Air Compressor	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Forklift	0.0000	0.0000	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001
Roller	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001	0.0001	0.0001
Onsite Total (metric tons/month)	**0.0014**	**0.0014**	**0.0017**	**0.0021**	**0.0022**	**0.0022**	**0.0022**	**0.0022**	**0.0025**	**0.0023**	**0.0023**	**0.0023**	**0.0026**	**0.0026**	**0.0026**
Onsite Total (metric tons/day) [a]	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**
Onsite Total (metric tons/year)	**0.0280**														

Construction Equipment CH_4 Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	CH_4 Emissions (metric tons/month)														
Onsite Equipment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Water Truck	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
Excavator	0.0006	0.0006	0.0006	0.0012	0.0012	0.0012	0.0012	0.0012	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017
Grader	0.0006	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0006	0.0006	0.0006
Cranes	0.0000	0.0000	0.0009	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009
Tractor/Loader/Backhoe	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Rubber Tired Loader	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Crawler Tractor	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
Air Compressor	0.0002	0.0002	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Forklift	0.0000	0.0000	0.0003	0.0003	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0003	0.0003	0.0003	0.0003
Roller	0.0003	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0003	0.0003	0.0003	0.0003
Onsite Total (metric tons/month)	**0.0032**	**0.0032**	**0.0037**	**0.0047**	**0.0050**	**0.0050**	**0.0050**	**0.0050**	**0.0055**	**0.0051**	**0.0051**	**0.0051**	**0.0057**	**0.0057**	**0.0057**
Onsite Total (metric tons/day) [a]	**0.0001**	**0.0001**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**
Onsite Total (metric tons/year)	**0.0625**														

Notes:

[a] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls', the days per month are as follows: 23

Huntington Beach Energy Project
Construction Emission Estimates - Peaker and Tank Area and Stack 3 and 4 Demolition
April 2014

Table 5.1A.2R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle CO Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	CO Emissions (lbs/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Onsite Stake Truck	0.05	0.05	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.05	0.05	0.05	0.05
Onsite Dump Truck	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Onsite Total (lbs/day)	**0.14**	**0.14**	**0.19**	**0.19**	**0.19**	**0.19**	**0.19**	**0.19**	**0.19**	**0.19**	**0.19**	**0.14**	**0.14**	**0.14**	**0.14**
	CO Emissions (lbs/month) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Onsite Stake Truck	1.21	1.21	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	1.21	1.21	1.21	1.21
Onsite Dump Truck	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
Onsite Total (lbs/month)	**3.19**	**3.19**	**4.40**	**4.40**	**4.40**	**4.40**	**4.40**	**4.40**	**4.40**	**4.40**	**4.40**	**3.19**	**3.19**	**3.19**	**3.19**
Onsite Total (tons/year)	**0.02**														

Onsite Construction Vehicle VOC Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	VOC Emisisons (lbs/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Stake Truck	0.03	0.03	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.03	0.03	0.03	0.03
Onsite Dump Truck	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Onsite Total (lbs/day)	**0.064**	**0.064**	**0.095**	**0.095**	**0.095**	**0.095**	**0.095**	**0.095**	**0.095**	**0.095**	**0.095**	**0.064**	**0.064**	**0.064**	**0.064**
	VOC Emissions (lbs/month) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Onsite Stake Truck	0.71	0.71	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	0.71	0.71	0.71	0.71
Onsite Dump Truck	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Onsite Total (lbs/month)	**1.48**	**1.48**	**2.19**	**2.19**	**2.19**	**2.19**	**2.19**	**2.19**	**2.19**	**2.19**	**2.19**	**1.48**	**1.48**	**1.48**	**1.48**
Onsite Total (tons/year)	**0.01**														

Onsite Construction Vehicle SOx Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	SOx Emissions (lbs/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010
Onsite Stake Truck	0.00016	0.00016	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00016	0.00016	0.00016	0.00016
Onsite Dump Truck	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016
Onsite Total (lbs/day)	**0.00042**	**0.00042**	**0.00059**	**0.00059**	**0.00059**	**0.00059**	**0.00059**	**0.00059**	**0.00059**	**0.00059**	**0.00059**	**0.00042**	**0.00042**	**0.00042**	**0.00042**
	SOx Emissions (lbs/month) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.00223	0.00223	0.00223	0.00223	0.00223	0.00223	0.00223	0.00223	0.00223	0.00223	0.00223	0.00223	0.00223	0.00223	0.00223
Onsite Stake Truck	0.00375	0.00375	0.00750	0.00750	0.00750	0.00750	0.00750	0.00750	0.00750	0.00750	0.00750	0.00375	0.00375	0.00375	0.00375
Onsite Dump Truck	0.00375	0.00375	0.00375	0.00375	0.00375	0.00375	0.00375	0.00375	0.00375	0.00375	0.00375	0.00375	0.00375	0.00375	0.00375
Onsite Total (lbs/month)	**0.00974**	**0.00974**	**0.01349**	**0.01349**	**0.01349**	**0.01349**	**0.01349**	**0.01349**	**0.01349**	**0.01349**	**0.01349**	**0.00974**	**0.00974**	**0.00974**	**0.00974**
Onsite Total (tons/year)	**0.00008**														

Onsite Construction Vehicle NOx Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	NOx Emissions (lbs/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Onsite Stake Truck	0.093	0.093	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.16	0.16	0.08	0.08	0.08	0.08
Onsite Dump Truck	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.08	0.08	0.08	0.08	0.08	0.08
Onsite Total (lbs/day)	**0.19**	**0.19**	**0.28**	**0.28**	**0.28**	**0.28**	**0.28**	**0.28**	**0.28**	**0.25**	**0.25**	**0.17**	**0.17**	**0.17**	**0.17**
	NOx Emissions (lbs/month) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Onsite Stake Truck	2.15	2.15	4.29	4.29	4.29	4.29	4.29	4.29	4.29	3.79	3.79	1.90	1.90	1.90	1.90
Onsite Dump Truck	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	1.90	1.90	1.90	1.90	1.90	1.90
Onsite Total (lbs/month)	**4.36**	**4.36**	**6.51**	**6.51**	**6.51**	**6.51**	**6.51**	**6.51**	**6.51**	**5.75**	**5.75**	**3.86**	**3.86**	**3.86**	**3.86**
Onsite Total (tons/year)	**0.03**														

Table 5.1A.2R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle PM_{10} Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	PM_{10} Emissions (lbs/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.00	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Onsite Stake Truck	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.009	0.009	0.004	0.004	0.004	0.004
Onsite Dump Truck	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.004	0.004	0.004	0.004	0.004	0.004
Onsite Total (lbs/day)	**0.01**	**0.01**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**
	PM_{10} Emissions (lbs/month) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Onsite Stake Truck	0.12	0.12	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.20	0.20	0.10	0.10	0.10	0.10
Onsite Dump Truck	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.10	0.10	0.10	0.10	0.10	0.10
Onsite Total (lbs/month)	**0.27**	**0.27**	**0.39**	**0.39**	**0.39**	**0.39**	**0.39**	**0.39**	**0.39**	**0.33**	**0.33**	**0.23**	**0.23**	**0.23**	**0.23**
Onsite Total (tons/year)	**0.00**														

Onsite Construction Vehicle $PM_{2.5}$ Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	$PM_{2.5}$ Emissions (lbs/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Stake Truck	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
Onsite Dump Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.01**	**0.01**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**
	$PM_{2.5}$ Emissions (lbs/month) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Onsite Stake Truck	0.11	0.11	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.18	0.18	0.09	0.09	0.09	0.09
Onsite Dump Truck	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.09	0.09	0.09	0.09	0.09	0.09
Onsite Total (lbs/month)	**0.24**	**0.24**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.29**	**0.29**	**0.20**	**0.20**	**0.20**	**0.20**
Onsite Total (tons/year)	**0.00**														

Onsite Construction Vehicle CO_2 Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	CO_2 Emissions (metric tons/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Stake Truck	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
Onsite Dump Truck	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Onsite Total (metric tons/day)	**0.02**	**0.02**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.02**	**0.02**	**0.02**	**0.02**
	CO_2 Emissions (metric tons/month) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Onsite Stake Truck	0.18	0.18	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.18	0.18	0.18	0.18
Onsite Dump Truck	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Onsite Total (metric tons/month)	**0.47**	**0.47**	**0.65**	**0.65**	**0.65**	**0.65**	**0.65**	**0.65**	**0.65**	**0.65**	**0.65**	**0.47**	**0.47**	**0.47**	**0.47**
Onsite Total (metric tons/year)	**7.22**														

Onsite Construction Vehicle N_2O Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	N_2O Emissions (metric tons/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026
Onsite Stake Truck	0.000000010	0.000000010	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000010	0.000000010	0.000000010	0.000000010
Onsite Dump Truck	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010
Onsite Total (metric tons/day)	**0.000000046**	**0.000000046**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000046**	**0.000000046**	**0.000000046**	**0.000000046**
	N_2O Emissions (metric tons/month) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061
Onsite Stake Truck	0.00000022	0.00000022	0.00000044	0.00000044	0.00000044	0.00000044	0.00000044	0.00000044	0.00000044	0.00000044	0.00000044	0.00000022	0.00000022	0.00000022	0.00000022
Onsite Dump Truck	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022
Onsite Total (metric tons/month)	**0.0000010**	**0.0000010**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000010**	**0.0000010**	**0.0000010**	**0.0000010**
Onsite Total (metric tons/year)	**0.000015**														

Table 5.1A.2R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle CH_4 Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	CH_4 Emissions (metric tons/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007
Onsite Stake Truck	0.00000001	0.00000001	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002	0.00000001	0.00000001	0.00000001	0.00000001
Onsite Dump Truck	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001
Onsite Total (metric tons/day)	**0.00000009**	**0.00000009**	**0.00000010**	**0.00000010**	**0.00000010**	**0.00000010**	**0.00000010**	**0.00000010**	**0.00000010**	**0.00000010**	**0.00000010**	**0.00000009**	**0.00000009**	**0.00000009**	**0.00000009**
	CH_4 Emissions (metric tons/month) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.00000150	0.00000150	0.00000150	0.00000150	0.00000150	0.00000150	0.00000150	0.00000150	0.00000150	0.00000150	0.00000150	0.00000150	0.00000150	0.00000150	0.00000150
Onsite Stake Truck	0.00000023	0.00000023	0.00000047	0.00000047	0.00000047	0.00000047	0.00000047	0.00000047	0.00000047	0.00000047	0.00000047	0.00000023	0.00000023	0.00000023	0.00000023
Onsite Dump Truck	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023
Onsite Total (metric tons/month)	**0.0000020**	**0.0000020**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000020**	**0.0000020**	**0.0000020**	**0.0000020**
Onsite Total (metric tons/year)	**0.000026**														

Notes:

[a] The days per month are per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls', as presented on the 'Onsite Fugitive Dust' tab.

Table 5.1A.3R Onsite Demolition Fugitive Dust Emissions

Demolition Activity Levels for Peaker and Tank Area and Stack 3 & 4 Demolition

	Monthly Activity Levels														
Source	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Debris Generated from Mechanical Dismemberment (tons) [a]	321.33	321.33	321.33	321.33	321.33	321.33	321.33	321.33	321.33	321.33	321.33	321.33	321.33	321.33	321.33

[a] Debris generated from Table 5.14-3, Wastes Generated during Demolition of Peaker and Tank Area. Concrete quantities for Stack 3&4 Demolition also included (Table 5.14-3 Units 3 & 4). Only materials generated from demolition that may generate fugitive dust were included. The monthly quantities were determined as follows:

Scrap Materials	8,000	lbs/week	which equals	16.00	tons/month
Scrap Metals	2,000	tons	which equals	133.33	tons/month
Concrete	2,350	tons	which equals	156.67	tons/month
Asphalt	30	tons	which equals	2.00	tons/month
Asbestos Waste	200	tons	which equals	13.33	tons/month
The above calculations are based on the following assumptions:					
Demolition will last	15	months			
The construction schedule allows for	4	weeks/month			

Onsite Construction Vehicle Fugitive PM_{10} Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	Fugitive PM_{10} Emissions (lbs/day) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
Onsite Stake Truck	0.69	0.69	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	0.69	0.69	0.69	0.69
Onsite Dump Truck	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Onsite Total (lbs/day)	**2.77**	**2.77**	**3.47**	**3.47**	**3.47**	**3.47**	**3.47**	**3.47**	**3.47**	**3.47**	**3.47**	**2.77**	**2.77**	**2.77**	**2.77**
	Fugitive PM_{10} Emissions (lbs/month) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90
Onsite Stake Truck	15.95	15.95	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	15.95	15.95	15.95	15.95
Onsite Dump Truck	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95
Onsite Total (lbs/month)	**63.81**	**63.81**	**79.76**	**79.76**	**79.76**	**79.76**	**79.76**	**79.76**	**79.76**	**79.76**	**79.76**	**63.81**	**63.81**	**63.81**	**63.81**
Onsite Total (tons/year)	**0.45**														

Notes:
[a] Emissions based on highest (controlled) unpaved road emission factor for PM_{10}.

Onsite Construction Vehicle Fugitive $PM_{2.5}$ Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Onsite Stake Truck	0.07	0.07	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.07	0.07	0.07	0.07
Onsite Dump Truck	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Onsite Total (lbs/day)	**0.28**	**0.28**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.28**	**0.28**	**0.28**	**0.28**
	Fugitive $PM_{2.5}$ Emissions (lbs/month) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19
Onsite Stake Truck	1.60	1.60	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	1.60	1.60	1.60	1.60
Onsite Dump Truck	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
Onsite Total (lbs/month)	**6.38**	**6.38**	**7.98**	**7.98**	**7.98**	**7.98**	**7.98**	**7.98**	**7.98**	**7.98**	**7.98**	**6.38**	**6.38**	**6.38**	**6.38**
Onsite Total (tons/year)	**0.05**														

Notes:
[a] Emissions based on the highest (controlled) unpaved road emission factor for $PM_{2.5}$.

Onsite Demolition Fugitive PM_{10} Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	Fugitive PM_{10} Emissions (lbs/day) [a, b]														
Demolition Activity	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Dismemberment	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Debris Loading [c]	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Onsite Total (lbs/day)	**0.19**	**0.19**	**0.19**	**0.19**	**0.19**	**0.19**	**0.19**	**0.19**	**0.19**	**0.19**	**0.19**	**0.19**	**0.19**	**0.19**	**0.19**
	Fugitive PM_{10} Emissions (lbs/month) [a, b]														
Demolition Activity	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Dismemberment	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
Debris Loading [c]	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
Onsite Total (lbs/month)	**4.40**	**4.40**	**4.40**	**4.40**	**4.40**	**4.40**	**4.40**	**4.40**	**4.40**	**4.40**	**4.40**	**4.40**	**4.40**	**4.40**	**4.40**
Onsite Total (tons/year)	**0.03**														

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Emissions based on the highest (controlled) emission factors for PM_{10}.
[c] Assume that all debris generated per month from dismemberment is loaded in the same month that it is generated.

Table 5.1A.3R Onsite Demolition Fugitive Dust Emissions

Onsite Demolition Fugitive $PM_{2.5}$ Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a, b]														
Demolition Activity	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Dismemberment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Debris Loading [c]	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Onsite Total (lbs/day)	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**
	Fugitive $PM_{2.5}$ Emissions (lbs/month) [a, b]														
Demolition Activity	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Dismemberment	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Debris Loading [c]	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
Onsite Total (lbs/month)	**0.67**	**0.67**	**0.67**	**0.67**	**0.67**	**0.67**	**0.67**	**0.67**	**0.67**	**0.67**	**0.67**	**0.67**	**0.67**	**0.67**	**0.67**
Onsite Total (tons/year)	**0.00**														

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Emissions based on the highest (controlled) emission factors for $PM_{2.5}$.
[c] Assume that all debris generated per month from dismemberment is loaded in the same month that it is generated.

Onsite Construction Vehicle Activity for Peaker and Tank Area and Stack 3 & 4 Demolition

Vehicle Type	Miles/Day [a]	Working Days per Month [b]
Onsite Pick-up Truck	2	23
Onsite Stake Truck	2	23
Onsite Dump Truck	1	23

Notes:
[a] Estimated based on dimensions of the project site.
[b] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Fugitive Dust Emission Factors for Unpaved Roads

Vehicles on Unpaved Surfaces at Industrial Sites

Parameter	PM_{10}	$PM_{2.5}$
Mean Vehicle Weight [a]	16.5	16.5
Silt Content [b]	8.5	8.5
k [c]	1.5	0.15
a [c]	0.9	0.9
b [c]	0.45	0.45
P [d]	31	31
Emission Factor (Uncontrolled, lbs/mile) [e]	2.17	0.22
Reduction from Applying Soil Stabilizers [f]	84%	84%
Emission Factor (Controlled, lbs/mile)	0.35	0.03

Notes:
[a] Mean vehicle weight assumes that medium/heavy duty trucks weigh 16.5 tons.
[b] Silt content taken from Table 13.2.2-1 of Section 13.2.2 of AP-42 for a Construction Site, Scraper Route; this value is consistent with the CalEEMod defaults for the South Coast Air Basin.
[c] k, a, and b taken from Table 13.2.2-2 of Section 13.2.2 of AP-42 for industrial roads.
[d] P taken as the CalEEMod default for the Huntington Beach climate region of the South Coast Air Basin.
[e] Emission factor calculated using Equations 1a and 2 from Section 13.2.2 of AP-42:

Emission Factor (lbs/mile) = {k (lbs/mile) x [Silt Content (%) / 12]^{a} x [Mean Vehicle Weight (tons) / 3]^{b}} x [(365 - P) / 365]

[f] Control efficiency taken from Table XI-D of the SCAQMD CEQA Handbook for Travel Over Unpaved Roads.

Fugitive Dust Emission Factors for Dismemberment

Dismemberment and Collapse of Structures

Parameter	PM_{10}	$PM_{2.5}$
k [a]	0.35	0.053
U (mph) [b]	4.9	4.9
M (%) [c]	2.0	2.0
Emission Factor (lbs/ton) [d]	0.00110	0.00017
Reduction from Watering Every 4 Hours [e]	36%	36%
Emission Factor (Controlled, lbs/ton)	0.00070	0.00011

Notes:
[a] k, the particle size multiplier, taken from Section 13.2.4.3 of AP-42 per Section 4.4 of Appendix A of the CalEEMod User's Guide.
[b] U, the mean wind speed, taken as the CalEEMod default for the South Coast Air Basin. Converted from meters/second (m/s) to miles per hour (mph).
[c] M, the material moisture content, taken from Section 4.4 of Appendix A of the CalEEMod User's Guide.
[d] Emission factor calculated using the following equation from Section 13.2.4.3 of AP-42 per Section 4.4 of Appendix A of the CalEEMod User's Guide:

Emission Factor (lbs/ton) = k x 0.0032 x [U / 5]$^{1.3}$ x [M / 2]$^{1.4}$

[e] Control efficiency taken from Table XI-A of the SCAQMD CEQA Handbook for Active Demolition and Debris Removal.

Table 5.1A.3R Onsite Demolition Fugitive Dust Emissions

Fugitive Dust Emission Factors for Debris Loading

Loading of Debris/Building Waste

Parameter	PM_{10}	$PM_{2.5}$
k [a]	0.35	0.053
$EF_{L\text{-}TSP}$ [b]	0.058	0.058
Emission Factor (lbs/ton) [c]	0.020	0.003
Reduction from Watering Every 4 Hours [d]	36%	36%
Emission Factor (Controlled, lbs/ton)	0.013	0.002

Notes:

[a] k taken from Section 13.2.4.3 of AP-42 per Section 4.4 of Appendix A of the CalEEMod User's Guide.

[b] $EF_{L\text{-}TSP}$ taken from Section 4.4 of Appendix A of the CalEEMod User's Guide.

[c] Emission factor calculated using the following equation from Section 4.4 of Appendix A of the CalEEMod User's Guide:
Emission Factor (lbs/ton) = k x $EF_{L\text{-}TSP}$ (lbs/ton)

[d] Control efficiency taken from Table XI-A of the SCAQMD CEQA Handbook for Active Demolition and Debris Removal.

Huntington Beach Energy Project
Construction Emission Estimates - Peaker and Tank Area and Stack 3 and 4 Demolition
April 2014

Table 5.1A.4R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle Usage During Peaker and Tank Area and Stack 3 & 4 Demolition

	Number per Day														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks [a]	0.00	0.00	0.00	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Material Hauling Trucks [b]	0.25	0.50	0.50	0.00	1.00	1.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	0.63	0.63
Waste Hauling Trucks [c]	0.00	0.00	0.00	0.00	1.25	1.25	1.50	1.75	1.75	2.00	2.25	2.50	2.25	1.25	1.25
Construction Worker Commute [d]	0.00	10.00	12.00	25.00	33.00	37.00	43.00	46.00	51.00	49.00	44.00	23.00	20.00	18.00	12.00

Notes:

[a] Offsite Delivery Trucks include trucks transporting "Consumables & Supplies", as provided in 'Huntington Beach Truck Deliveries 032112.xls'.

[b] Material Hauling Trucks include trucks transporting "Fill Material", "Contractor Mobilization", "Contractor Demobilization", and "Demo Equipment", as provided in 'Huntington Beach Truck Deliveries 032112.xls'.

[c] Waste Hauling Trucks include trucks transporting "Mechanical Equipment", "Electrical Equip. & Mtrls", "Concrete and Rebar", "Steel/Architectural", and "Piping, Supports, & Valves", as provided in 'Huntington Beach Truck Deliveries 032112.xls'.

[d] Assumed 1 commute per 1 worker; number of workers taken from 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Offsite Vehicle CO Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	CO Emissions (lbs/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Material Hauling Trucks	0.04	0.08	0.08	0.00	0.16	0.18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.10	0.10
Waste Hauling Trucks	0.00	0.00	0.00	0.00	0.31	0.31	0.37	0.43	0.43	0.49	0.55	0.61	0.55	0.31	0.31
Construction Worker Commute	0.00	0.74	0.88	1.84	2.43	2.73	3.17	3.39	3.76	3.61	3.24	1.69	1.47	1.33	0.88
Offsite Total (lbs/day)	**0.04**	**0.82**	**0.97**	**1.86**	**2.92**	**3.24**	**4.55**	**4.84**	**5.20**	**5.12**	**4.81**	**3.33**	**3.04**	**1.75**	**1.31**
	CO Emissions (lbs/month)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.00	0.00	0.00	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
Material Hauling Trucks	0.94	1.88	1.88	0.00	3.75	4.22	22.98	22.98	22.98	22.98	22.98	22.98	22.98	2.34	2.34
Waste Hauling Trucks	0.00	0.00	0.00	0.00	7.03	7.03	8.44	9.85	9.85	11.25	12.66	14.07	12.66	7.03	7.03
Construction Worker Commute	0.00	16.95	20.34	42.37	55.92	62.70	72.87	77.95	86.42	83.04	74.56	38.98	33.89	30.50	20.34
Offsite Total (lbs/month)	**0.94**	**18.82**	**22.21**	**42.82**	**67.17**	**74.41**	**104.74**	**111.23**	**119.71**	**117.72**	**110.66**	**76.48**	**69.99**	**40.34**	**30.17**
Offsite Total (tons/year)	**0.48**														

Offsite Vehicle VOC Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	VOC Emissions (lbs/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Material Hauling Trucks	0.01	0.01	0.01	0.00	0.03	0.03	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.02	0.02
Waste Hauling Trucks	0.00	0.00	0.00	0.00	0.05	0.05	0.06	0.07	0.07	0.08	0.09	0.10	0.09	0.05	0.05
Construction Worker Commute	0.00	0.02	0.02	0.04	0.05	0.06	0.07	0.07	0.08	0.08	0.07	0.04	0.03	0.03	0.02
Offsite Total (lbs/day)	**0.01**	**0.03**	**0.03**	**0.04**	**0.14**	**0.15**	**0.30**	**0.32**	**0.33**	**0.33**	**0.34**	**0.31**	**0.30**	**0.10**	**0.09**
	VOC Emissions (lbs/month)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.00	0.00	0.00	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Material Hauling Trucks	0.16	0.32	0.32	0.00	0.64	0.72	3.92	3.92	3.92	3.92	3.92	3.92	3.92	0.40	0.40
Waste Hauling Trucks	0.00	0.00	0.00	0.00	1.20	1.20	1.44	1.68	1.68	1.92	2.16	2.40	2.16	1.20	1.20
Construction Worker Commute	0.00	0.36	0.43	0.90	1.19	1.34	1.55	1.66	1.84	1.77	1.59	0.83	0.72	0.65	0.43
Offsite Total (lbs/month)	**0.16**	**0.68**	**0.75**	**1.00**	**3.12**	**3.35**	**7.01**	**7.35**	**7.53**	**7.70**	**7.76**	**7.24**	**6.89**	**2.34**	**2.13**
Offsite Total (tons/year)	**0.03**														

Table 5.1A.4R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle SOx Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	SOx Emissions (lbs/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Material Hauling Trucks	0.000	0.001	0.001	0.000	0.001	0.002	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.001	0.001
Waste Hauling Trucks	0.000	0.000	0.000	0.000	0.003	0.003	0.003	0.004	0.004	0.004	0.005	0.005	0.005	0.003	0.003
Construction Worker Commute	0.000	0.002	0.002	0.004	0.006	0.006	0.007	0.008	0.009	0.008	0.007	0.004	0.003	0.003	0.002
Offsite Total (lbs/day)	**0.000**	**0.002**	**0.003**	**0.004**	**0.010**	**0.010**	**0.019**	**0.020**	**0.021**	**0.021**	**0.020**	**0.017**	**0.016**	**0.007**	**0.006**
	SOx Emissions (lbs/month)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.000	0.000	0.000	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Material Hauling Trucks	0.008	0.016	0.016	0.000	0.031	0.035	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.020	0.020
Waste Hauling Trucks	0.000	0.000	0.000	0.000	0.059	0.059	0.071	0.083	0.083	0.094	0.106	0.118	0.106	0.059	0.059
Construction Worker Commute	0.000	0.038	0.046	0.096	0.127	0.142	0.165	0.176	0.196	0.188	0.169	0.088	0.077	0.069	0.046
Offsite Total (lbs/month)	**0.008**	**0.054**	**0.062**	**0.099**	**0.220**	**0.239**	**0.431**	**0.455**	**0.474**	**0.478**	**0.470**	**0.402**	**0.378**	**0.151**	**0.128**
Offsite Total (tons/year)	**0.002**														

Offsite Vehicle NOx Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	NOx Emissions (lbs/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05
Material Hauling Trucks	0.13	0.25	0.25	0.00	0.51	0.57	3.11	3.11	3.11	2.75	2.75	2.75	2.75	0.28	0.28
Waste Hauling Trucks	0.00	0.00	0.00	0.00	0.95	0.95	1.14	1.33	1.33	1.35	1.51	1.68	1.51	0.84	0.84
Construction Worker Commute	0.00	0.07	0.09	0.18	0.23	0.26	0.31	0.33	0.36	0.32	0.29	0.15	0.13	0.12	0.08
Offsite Total (lbs/day)	**0.13**	**0.32**	**0.34**	**0.24**	**1.75**	**1.85**	**4.62**	**4.83**	**4.86**	**4.47**	**4.60**	**4.63**	**4.45**	**1.29**	**1.25**
	NOx Emissions (lbs/month)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.00	0.00	0.00	1.40	1.40	1.40	1.40	1.40	1.40	1.23	1.23	1.23	1.23	1.23	1.23
Material Hauling Trucks	2.92	5.84	5.84	0.00	11.67	13.13	71.50	71.50	71.50	63.23	63.23	63.23	63.23	6.45	6.45
Waste Hauling Trucks	0.00	0.00	0.00	0.00	21.89	21.89	26.27	30.64	30.64	30.97	34.84	38.71	34.84	19.36	19.36
Construction Worker Commute	0.00	1.63	1.96	4.08	5.39	6.04	7.02	7.51	8.32	7.31	6.57	3.43	2.98	2.69	1.79
Offsite Total (lbs/month)	**2.92**	**7.47**	**7.79**	**5.48**	**40.35**	**42.46**	**106.18**	**111.05**	**111.87**	**102.74**	**105.87**	**106.60**	**102.28**	**29.72**	**28.83**
Offsite Total (tons/year)	**0.45**														

Offsite Vehicle PM_{10} Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	PM_{10} Emissions (lbs/day) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Material Hauling Trucks	0.01	0.02	0.02	0.00	0.05	0.06	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.03	0.03
Waste Hauling Trucks	0.00	0.00	0.00	0.00	0.09	0.09	0.11	0.13	0.13	0.14	0.16	0.18	0.16	0.09	0.09
Construction Worker Commute	0.00	0.16	0.19	0.40	0.52	0.59	0.68	0.73	0.81	0.78	0.70	0.36	0.32	0.29	0.19
Offsite Total (lbs/day)	**0.01**	**0.18**	**0.21**	**0.40**	**0.67**	**0.74**	**1.10**	**1.16**	**1.24**	**1.21**	**1.15**	**0.84**	**0.77**	**0.41**	**0.31**
	PM_{10} Emissions (lbs/month) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.00	0.00	0.00	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11
Material Hauling Trucks	0.28	0.56	0.56	0.00	1.13	1.27	6.90	6.90	6.90	6.66	6.66	6.66	6.66	0.68	0.68
Waste Hauling Trucks	0.00	0.00	0.00	0.00	2.11	2.11	2.53	2.96	2.96	3.26	3.67	4.08	3.67	2.04	2.04
Construction Worker Commute	0.00	3.65	4.38	9.12	12.03	13.49	15.68	16.78	18.60	17.87	16.05	8.39	7.29	6.56	4.38
Offsite Total (lbs/month)	**0.28**	**4.21**	**4.94**	**9.23**	**15.39**	**16.99**	**25.23**	**26.75**	**28.57**	**27.91**	**26.49**	**19.24**	**17.74**	**9.40**	**7.21**
Offsite Total (tons/year)	**0.12**														

Notes:
[a] PM_{10} Emissions include emissions from exhaust and paved roads.

Table 5.1A.4R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle $PM_{2.5}$ Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	$PM_{2.5}$ Emissions (lbs/day) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Material Hauling Trucks	0.01	0.01	0.01	0.00	0.02	0.03	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.01	0.01
Waste Hauling Trucks	0.00	0.00	0.00	0.00	0.05	0.05	0.06	0.07	0.07	0.07	0.08	0.09	0.08	0.04	0.04
Construction Worker Commute	0.00	0.04	0.05	0.11	0.15	0.16	0.19	0.20	0.22	0.22	0.20	0.10	0.09	0.08	0.05
Offsite Total (lbs/day)	**0.01**	**0.06**	**0.07**	**0.11**	**0.22**	**0.24**	**0.40**	**0.42**	**0.45**	**0.43**	**0.42**	**0.34**	**0.31**	**0.14**	**0.11**
	$PM_{2.5}$ Emissions (lbs/month) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Material Hauling Trucks	0.14	0.29	0.29	0.00	0.57	0.65	3.52	3.52	3.52	3.30	3.30	3.30	3.30	0.34	0.34
Waste Hauling Trucks	0.00	0.00	0.00	0.00	1.08	1.08	1.29	1.51	1.51	1.62	1.82	2.02	1.82	1.01	1.01
Construction Worker Commute	0.00	1.01	1.22	2.54	3.35	3.75	4.36	4.67	5.17	5.00	4.49	2.35	2.04	1.84	1.22
Offsite Total (lbs/month)	**0.14**	**1.30**	**1.50**	**2.60**	**5.06**	**5.54**	**9.23**	**9.75**	**10.26**	**9.97**	**9.66**	**7.72**	**7.22**	**3.24**	**2.63**
Offsite Total (tons/year)	**0.04**														

Notes:
[a] $PM_{2.5}$ Emissions include emissions from exhaust and paved roads.

Offsite Vehicle CO_2 Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	CO_2 Emissions (metric tons/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Material Hauling Trucks	0.02	0.03	0.03	0.00	0.07	0.07	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.04	0.04
Waste Hauling Trucks	0.00	0.00	0.00	0.00	0.12	0.12	0.15	0.17	0.17	0.20	0.22	0.25	0.22	0.12	0.12
Construction Worker Commute	0.00	0.07	0.08	0.17	0.23	0.26	0.30	0.32	0.35	0.34	0.31	0.16	0.14	0.13	0.08
Offsite Total (metric tons/day)	**0.02**	**0.10**	**0.12**	**0.18**	**0.42**	**0.46**	**0.86**	**0.90**	**0.94**	**0.95**	**0.94**	**0.81**	**0.77**	**0.30**	**0.25**
	CO_2 Emissions (metric tons/month)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.00	0.00	0.00	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Material Hauling Trucks	0.38	0.75	0.75	0.00	1.51	1.70	9.24	9.24	9.24	9.24	9.24	9.24	9.24	0.94	0.94
Waste Hauling Trucks	0.00	0.00	0.00	0.00	2.83	2.83	3.40	3.96	3.96	4.53	5.09	5.66	5.09	2.83	2.83
Construction Worker Commute	0.00	1.60	1.92	4.00	5.28	5.92	6.88	7.36	8.16	7.84	7.04	3.68	3.20	2.88	1.92
Offsite Total (metric tons/month)	**0.38**	**2.35**	**2.67**	**4.15**	**9.77**	**10.59**	**19.67**	**20.71**	**21.51**	**21.76**	**21.52**	**18.73**	**17.69**	**6.80**	**5.84**
Offsite Total (metric tons/year)	**178.73**														

Offsite Vehicle N_2O Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	N_2O Emissions (metric tons/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Material Hauling Trucks	0.0000000	0.0000001	0.0000001	0.0000000	0.0000002	0.0000002	0.0000012	0.0000012	0.0000012	0.0000012	0.0000012	0.0000012	0.0000012	0.0000001	0.0000001
Waste Hauling Trucks	0.0000000	0.0000000	0.0000000	0.0000000	0.0000004	0.0000004	0.0000004	0.0000005	0.0000005	0.0000006	0.0000006	0.0000007	0.0000006	0.0000004	0.0000004
Construction Worker Commute	0.0000000	0.0000008	0.0000009	0.0000019	0.0000026	0.0000029	0.0000033	0.0000036	0.0000040	0.0000038	0.0000034	0.0000018	0.0000016	0.0000014	0.0000009
Offsite Total (metric tons/day)	**0.0000000**	**0.0000009**	**0.0000010**	**0.0000020**	**0.0000031**	**0.0000035**	**0.0000050**	**0.0000053**	**0.0000057**	**0.0000056**	**0.0000053**	**0.0000037**	**0.0000034**	**0.0000019**	**0.0000014**
	N_2O Emissions (metric tons/month)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Material Hauling Trucks	0.000001	0.000002	0.000002	0.000000	0.000004	0.000005	0.000027	0.000027	0.000027	0.000027	0.000027	0.000027	0.000027	0.000003	0.000003
Waste Hauling Trucks	0.000000	0.000000	0.000000	0.000000	0.000008	0.000008	0.000010	0.000012	0.000012	0.000013	0.000015	0.000017	0.000015	0.000008	0.000008
Construction Worker Commute	0.000000	0.000018	0.000021	0.000045	0.000059	0.000066	0.000077	0.000082	0.000091	0.000088	0.000079	0.000041	0.000036	0.000032	0.000021
Offsite Total (metric tons/month)	**0.000001**	**0.000020**	**0.000024**	**0.000045**	**0.000072**	**0.000080**	**0.000114**	**0.000121**	**0.000130**	**0.000128**	**0.000121**	**0.000085**	**0.000078**	**0.000044**	**0.000033**
Offsite Total (metric tons/year)	**0.001052**														

Table 5.1A.4R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle CH_4 Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

Vehicle Type	CH_4 Emissions (metric tons/day)														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Offsite Delivery Trucks	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Material Hauling Trucks	0.0000001	0.0000001	0.0000001	0.0000000	0.0000002	0.0000002	0.0000012	0.0000012	0.0000012	0.0000012	0.0000012	0.0000012	0.0000012	0.0000001	0.0000001
Waste Hauling Trucks	0.0000000	0.0000000	0.0000000	0.0000000	0.0000004	0.0000004	0.0000005	0.0000005	0.0000005	0.0000006	0.0000007	0.0000008	0.0000007	0.0000004	0.0000004
Construction Worker Commute	0.0000000	0.0000037	0.0000045	0.0000093	0.0000123	0.0000138	0.0000161	0.0000172	0.0000191	0.0000183	0.0000164	0.0000086	0.0000075	0.0000067	0.0000045
Offsite Total (metric tons/day)	**0.0000001**	**0.0000038**	**0.0000046**	**0.0000094**	**0.0000129**	**0.0000145**	**0.0000178**	**0.0000190**	**0.0000209**	**0.0000202**	**0.0000184**	**0.0000106**	**0.0000094**	**0.0000073**	**0.0000050**
Vehicle Type	**CH_4 Emissions (metric tons/month)**														
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Material Hauling Trucks	0.000001	0.000002	0.000002	0.000000	0.000005	0.000005	0.000029	0.000029	0.000029	0.000029	0.000029	0.000029	0.000029	0.000003	0.000003
Waste Hauling Trucks	0.000000	0.000000	0.000000	0.000000	0.000009	0.000009	0.000011	0.000012	0.000012	0.000014	0.000016	0.000018	0.000016	0.000009	0.000009
Construction Worker Commute	0.000000	0.000086	0.000103	0.000215	0.000284	0.000318	0.000370	0.000395	0.000438	0.000421	0.000378	0.000198	0.000172	0.000155	0.000103
Offsite Total (metric tons/month)	**0.000001**	**0.000088**	**0.000105**	**0.000215**	**0.000298**	**0.000333**	**0.000409**	**0.000437**	**0.000480**	**0.000464**	**0.000423**	**0.000244**	**0.000217**	**0.000167**	**0.000115**
Offsite Total (metric tons/year)	**0.003802**														

Offsite Construction Vehicle Activity for Peaker and Tank Area and Stack 3 & 4 Demolition

Vehicle Type	Roundtrip Miles/Day [a]	Working Days per Month [b]
Offsite Delivery Trucks	14.6	23
Material Hauling Trucks	40.0	23
Waste Hauling Trucks	60.0	23
Construction Worker Commute	21.6	23

Notes:

[a] Roundtrip miles/day taken as the CalEEMod defaults for the South Coast Air Basin except for Waste Hauling Trucks, which were assumed to travel directly to the the landfill for offsite waste disposal.

[b] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Table 5.1A.5R Equations Used to Calculate Criteria Pollutant and GHG Emissions

Equations Used to Calculate Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

Emission Source	Pollutant(s)	Equation	Variables
Construction Equipment Exhaust	CO, VOC, NOx, SOx, PM_{10}, and $PM_{2.5}$	$E_m = EF * N * Hp * L * H / 453.6$	E_m = Emissions (lbs/month)
			EF = Emission factor (g/bhp-hr)
			N = Number of pieces of equipment
			Hp = Average horsepower
			L = Average load factor
			H = Hours per month
			453.6 = Conversion from g to lbs
		$E_d = E_m / D$	E_d = Emissions (lbs/day)
			E_m = Emissions (lbs/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons
	CO_2	$E_m = N * FC * EF * H * 0.001$	E_m = Emissions (metric tons/month)
			N = Number of pieces of equipment
			FC = Fuel consumption (gallons/hour)
			EF = Emission factor (kg/gallon)
			H = Hours per month
			0.001 = Conversion from kg to metric tons
		$E_d = E_m / D$	E_d = Emissions (metric tons/day)
			E_m = Emissions (metric tons/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
	CH_4 and N_2O	$E_m = N * FC * EF * H / 1{,}000 * 0.001$	E_m = Emissions (metric tons/month)
			N = Number of pieces of equipment
			FC = Fuel consumption (gallons/hour)
			EF = Emission factor (g/gallon)
			H = Hours per month
			1,000 = Conversion from g to kg
			0.001 = Conversion from kg to metric tons
		$E_d = E_m / D$	E_d = Emissions (metric tons/day)
			E_m = Emissions (metric tons/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
Onsite and Offsite Vehicle Exhaust and Paved and Unpaved Road Fugitive PM_{10} and $PM_{2.5}$	CO, VOC, NOx, SOx, PM_{10}, and $PM_{2.5}$	$E_d = N * VMT * EF / 453.6$	E_d = Emissions (lbs/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			EF = EMFAC2007 emission factor (g/mile). Paved and unpaved road fugitive PM_{10} and $PM_{2.5}$ emission factors calculated per Sections 13.2.1 and 13.2.2 of AP-42, respectively.
			453.6 = Conversion from g to lbs
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons

Table 5.1A.5R Equations Used to Calculate Criteria Pollutant and GHG Emissions

Equations Used to Calculate Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

Emission Source	Pollutant(s)	Equation	Variables
Onsite and Offsite Vehicle Exhaust	CO_2	$E_d = N * VMT / FE * EF * 0.001$	E_d = Emissions (metric tons/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			FE = Fuel economy (mpg)
			EF = Emission factor (kg/gallon)
			0.001 = Conversion from kg to metric tons
		$E_m = E_d * D$	E_m = Emissions (metric tons/month)
			E_d = Emissions (metric tons/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
	CH_4 and N_2O	$E_d = N * VMT * EF / 1{,}000 * 0.001$	E_d = Emissions (metric tons/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			EF = Emission factor (g/mile)
			1,000 = Conversion from g to kg
			0.001 = Conversion from kg to metric tons
		$E_m = E_d * D$	E_m = Emissions (metric tons/month)
			E_d = Emissions (metric tons/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
Onsite Fugitive PM_{10} and $PM_{2.5}$ from Dismemberment and Debris Loading	PM_{10} and $PM_{2.5}$	$E_d = T * EF / D$	E_d = Emissions (lbs/day)
			T = Tons of material dismembered or loaded
			EF = Fugitive PM_{10} and $PM_{2.5}$ emission factors (lbs/ton), calculated per Section 13.2.4.3 of AP-42 for dismemberment and Section 4.4 of Appendix A of the CalEEMod User's Guide for debris loading.
			D = Number of construction days per month
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons

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Construction Emission Estimates - Peaker and Tank Area and Stack 3 and 4 Demolition
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Table 5.1A.6R Number of Onsite Construction Equipment and Motor Vehicles

Number of Onsite Equipment for Peaker and Tank Area and Stack 3 & 4 Demolition

	Number per Month [a]														
Onsite Equipment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Water Truck	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Excavator	1	1	1	2	2	2	2	2	3	3	3	3	3	3	3
Grader	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1
Cranes [b]	0	0	2	3	3	3	3	3	3	2	2	2	2	2	2
Tractor/Loader/Backhoe [c]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Rubber Tired Loader [d]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Crawler Tractor [e]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Air Compressor	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2
Forklift	0	0	1	1	2	2	2	2	2	2	2	1	1	1	1
Roller [f]	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1

Notes:

[a] Equipment counts taken from 'HBEP Equipment Usage 1.21.13.xls'.

[b] Numbers presented for Cranes includes the equipment counts for the 50 Ton Hydraulic Crane and the 35 Ton Hydraulic Crane.

[c] Numbers presented for Tractor/Loader/Backhoe includes the equipment counts for the Backhoe.

[d] Numbers presented for Rubber Tired Loader includes the equipment counts for the Front End Loader.

[e] Numbers presented for Crawler Tractor includes the equipment counts for the Dozer

[f] Numbers presented for Roller includes the equipment counts for the Compactor.

Number of Onsite Motor Vehicles for Peaker and Tank Area and Stack 3 & 4 Demolition

	Number per Month [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Onsite Stake Truck	1	1	2	2	2	2	2	2	2	2	2	1	1	1	1
Onsite Dump Truck	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

Notes:

[a] Vehicle counts taken from 'HBEP Equipment Usage 1.21.13.xls'.

Table 5.1A.7R Construction Equipment Exhaust Criteria Pollutant Emission Factors

Construction Equipment Emission Factors for Peaker and Tank Area and Stack 3 & 4 Demolition

Equipment [a]	Percent Usage [b]	Hours per Month [c]	Horsepower [d]	Load Factor [d]	Emission Factors (g/bhp-hr) [e]									Fuel Consumption (gallons/hour) [f]
					CO	VOC	NO_X 2015	NO_X 2016	SO_X	PM_{10} 2015	PM_{10} 2016	$PM_{2.5}$ 2015	$PM_{2.5}$ 2016	
Water Truck [g]	50%	115	381	0.57	1.241	0.408	2.956	2.613	0.005	0.105	0.093	0.105	0.093	12.33
Excavator	85%	196	157	0.57	3.369	0.532	3.751	3.323	0.006	0.204	0.179	0.204	0.179	5.11
Grader	80%	184	162	0.61	3.356	0.595	4.372	3.955	0.006	0.241	0.218	0.241	0.218	5.65
Cranes	65%	150	208	0.43	1.374	0.468	4.197	3.818	0.006	0.145	0.131	0.145	0.131	5.08
Tractor/Loader/Backhoe	55%	127	75	0.55	3.823	0.633	4.252	3.874	0.006	0.322	0.278	0.322	0.278	2.36
Rubber Tired Loader	55%	127	87	0.54	3.945	0.805	5.041	4.657	0.006	0.415	0.373	0.415	0.373	2.69
Crawler Tractor	80%	184	82	0.64	4.122	0.987	5.885	5.508	0.006	0.500	0.460	0.500	0.460	3.02
Air Compressor	80%	184	78	0.48	3.840	0.821	5.190	4.790	0.006	0.446	0.397	0.446	0.397	2.15
Forklift	75%	173	149	0.30	3.357	0.487	3.456	3.062	0.006	0.188	0.166	0.188	0.166	2.55
Roller	70%	161	84	0.56	3.853	0.825	5.296	4.925	0.006	0.437	0.400	0.437	0.400	2.70

Notes:

[a] Assumed all equipment is fired with diesel fuel, per Section 4.2 of Appendix A of the CalEEMod User's Guide.

[b] Percent Usage assumed typical of power plant construction.

[c] Hours per month calculated based on the following schedule, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Work hours per day: 10

Work days per month: 23

[d] Construction equipment horsepower and load factor taken from Table 3.3 of Appendix D of the CalEEMod User's Guide.

[e] Construction equipment emission factors taken from Table 3.4 of Appendix D of the CalEEMod User's Guide. The emission factors for the year 2015 were used for the construction equipment exhaust emission calculations for CO, VOC, and SOx. The emission factors for year 2015 and 2016 were used for NOx, PM10, and PM2.5.

[f] Fuel consumption based on consumption in the OFFROAD2007 model for the SCAB in the year 2015; value estimated by dividing the reported consumption (gallons/day) by the reported activity (hours/day).

[g] Horsepower, load factor, and emission factors for Off-Highway Trucks were assumed representative of Water Trucks.

Huntington Beach Energy Project
Construction Emission Estimates - Peaker and Tank Area and Stack 3 and 4 Demolition
April 2014

Table 5.1A.8R Onsite and Offsite Motor Vehicle Criteria Pollutant Emission Factors

Vehicle Emission Factors for Peaker and Tank Area and Stack 3 & 4 Demolition

Vehicle Type	Vehicle Class [a]	Exhaust Emission Factors (g/mile) [b]									Paved Road Emission Factors (g/mile) [c]		Fuel Economy (mpg) [b]
		CO	VOC	SO_X	NO_X 2015	NO_X 2016	PM_{10} 2015	PM_{10} 2016	$PM_{2.5}$ 2015	$PM_{2.5}$ 2016	PM_{10}	$PM_{2.5}$	
Onsite Pick-up Truck	Light-duty Truck	3.823	0.264	0.011	0.354	0.327	0.121	0.123	0.099	0.101	N/A	N/A	7.433
Onsite Stake Truck	Heavy-duty Diesel	11.918	7.032	0.037	21.152	18.687	1.207	1.007	1.073	0.889	N/A	N/A	2.621
Onsite Dump Truck	Heavy-duty Diesel	11.918	7.032	0.037	21.152	18.687	1.207	1.007	1.073	0.889	N/A	N/A	2.621
Offsite Delivery Trucks	Heavy-duty Diesel	2.483	0.498	0.017	7.565	6.621	0.328	0.297	0.264	0.235	0.300	0.075	5.749
Material Hauling Trucks	Heavy/Medium-duty Diesel	1.850	0.316	0.016	5.756	5.090	0.255	0.236	0.208	0.191	0.300	0.075	6.224
Waste Hauling Trucks	Heavy/Medium-duty Diesel	1.850	0.316	0.016	5.756	5.090	0.255	0.236	0.208	0.191	0.300	0.075	6.224
Construction Worker Commute	Light-duty Auto/Truck	1.547	0.033	0.004	0.149	0.136	0.033	0.033	0.018	0.018	0.300	0.075	27.278

Notes:

[a] The vehicle classes are represented as follows:

Light-duty Truck: Assumed to be an average of LDT1, All and LDT2, All values.
Heavy-duty Diesel: Assumed to be 100% HHD DSL values, as confirmed in Section 4.5 of Appendix A of the CalEEMod User's Guide.
Heavy/Medium-duty Diesel: 50% HHD DSL and 50% MHD DSL values, per Section 4.5 of Appendix A of the CalEEMod User's Guide.
Light-duty Auto/Truck: 50% LDA, All; 25% LDT1, All; and 25% LDT2, All values, per Section 4.5 of Appendix A of the CalEEMod User's Guide.

[b] Exhaust emission factors and fuel economy from EMFAC2007 for the South Coast Air Basin, calendar year 2015 for CO, VOC, and SOx. The emission factors for year 2015 and 2016 were used for NOx, PM10, and PM2.5. A speed of 5 mph was assumed for onsite vehicles; a speed of 40 mph was assumed for offsite vehicles and worker commutes, which is consistent with the CalEEMod defaults. An average temperature of 68°F and humidity of 55% were used per Table B-1 of CT-EMFAC: A Computer Model to Estimate Transportation Project Emissions.

[c] Paved road emission factors calculated using CalEEMod methodology, as described below.

Derivation of Paved Road Emission Factors

Vehicles on Paved Roads

Parameter	PM_{10}	$PM_{2.5}$
Average Weight [a]	2.4	2.4
k [b]	1.0	0.25
sL [a]	0.1	0.1
Emission Factor (g/mile) [c]	0.300	0.075

Notes:

[a] Average Weight and sL taken as the default value from CalEEMod.

[b] k taken from Table 13.2.1-1 of Section 13.2.1 of AP-42.

[c] Emission factor calculated using Equation 1 from Section 13.2.1 of AP-42:

Emission Factor (g/mile) = k (g/mile) x $[sL\ (g/m^2)]^{0.91}$ x $[\text{Average Weight (tons)}]^{1.02}$

Huntington Beach Energy Project
Construction Emission Estimates - Peaker and Tank Area and Stack 3 and 4 Demolition
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Table 5.1A.9R Onsite and Offsite Greenhouse Gas Emission Factors

Greenhouse Gas Emission Factors for Peaker and Tank Area and Stack 3 & 4 Demolition

Fuel / Category Type	Emission Factor	Emission Factor Units	Emission Factor Source
CO_2 Emission Factors			
Gasoline	8.78	kg CO_2/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.1, May 2008 as updated through January 2012.
Diesel	10.21	kg CO_2/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.1, May 2008 as updated through January 2012.
N_2O Emission Factors			
Gasoline Passenger Car Model Year 2009 [a]	0.0036	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Gasoline Light-duty Truck Model Year 2009 [a]	0.0066	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Heavy-duty Truck Model Year 1960 - 2009 [a]	0.0048	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Off-road Vehicle	0.26	g N_2O/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.7, May 2008 as updated through January 2012.
CH_4 Emission Factors			
Gasoline Passenger Car Model Year 2009 [a]	0.0173	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Gasoline Light-duty Truck Model Year 2009 [a]	0.0163	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Heavy-duty Truck Model Year 1960 - 2009 [a]	0.0051	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Off-road Vehicle	0.58	g CH_4/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.7, May 2008 as updated through January 2012.

Notes:

[a] Model Year 2009 was the most recent year of emission factors available. As a result, it was assumed representative of vehicles used for this project.

Table 5.1A.10R Onsite Construction Equipment Exhaust Emissions

Construction Equipment CO Emissions from Block 1 Construction

	CO Emisisons (lbs/month)																														
Onsite Equipment	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Water Truck	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57
Excavator	259.65	259.65	259.65	259.65	259.65	129.83	129.83	129.83	129.83	129.83	129.83	129.83	129.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	268.73	268.73	268.73	268.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	134.37	134.37
Cranes	0.00	0.00	0.00	78.65	78.65	78.65	157.30	157.30	196.62	196.62	157.30	157.30	196.62	196.62	157.30	157.30	157.30	157.30	78.65	78.65	78.65	78.65	78.65	78.65	0.00	0.00	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	0.00	0.00	0.00	0.00
Rubber Tired Loader	102.69	102.69	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	174.22	174.22	87.11	87.11	87.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	57.77	57.77	57.77	57.77	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	57.77	57.77	57.77	57.77	57.77	57.77	57.77	57.77	57.77	57.77
Forklift	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	57.15	57.15	57.15	57.15	57.15	57.15	57.15	57.15	57.15	57.15
Roller	109.48	109.48	109.48	109.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.74	54.74
Other General Industrial Equipment	91.10	91.10	91.10	91.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**1,288.23**	**1,288.23**	**1,149.78**	**1,228.42**	**816.88**	**599.95**	**678.59**	**678.59**	**717.92**	**717.92**	**678.59**	**678.59**	**717.92**	**588.09**	**548.77**	**548.77**	**548.77**	**548.77**	**470.12**	**470.12**	**355.20**	**303.85**	**303.85**	**303.85**	**225.20**	**225.20**	**181.49**	**181.49**	**370.60**	**370.60**
Onsite Total (lbs/day) [a]	**56.01**	**56.01**	**49.99**	**53.41**	**35.52**	**26.08**	**29.50**	**29.50**	**31.21**	**31.21**	**29.50**	**29.50**	**31.21**	**25.57**	**23.86**	**23.86**	**23.86**	**23.86**	**20.44**	**20.44**	**15.44**	**13.21**	**13.21**	**13.21**	**9.79**	**9.79**	**7.89**	**7.89**	**16.11**	**16.11**
Onsite Total (tons/year)	**5.26**																													

Construction Equipment VOC Emissions from Block 1 Construction

	VOC Emisisons (lbs/month)																														
Onsite Equipment	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Water Truck	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31
Excavator	37.95	37.95	37.95	37.95	37.95	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	44.66	44.66	44.66	44.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.33	22.33
Cranes	0.00	0.00	0.00	26.12	26.12	26.12	52.24	52.24	65.29	65.29	52.24	52.24	65.29	65.29	52.24	52.24	52.24	52.24	26.12	26.12	26.12	26.12	26.12	26.12	0.00	0.00	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	0.00	0.00	0.00	0.00
Rubber Tired Loader	19.52	19.52	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	39.43	39.43	19.71	19.71	19.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	11.30	11.30	11.30	11.30	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	11.30	11.30	11.30	11.30	11.30	11.30	11.30	11.30	11.30	11.30
Forklift	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75
Roller	21.92	21.92	21.92	21.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.96	10.96
Other General Industrial Equipment	15.75	15.75	15.75	15.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**233.97**	**233.97**	**204.49**	**230.61**	**159.58**	**120.89**	**147.01**	**147.01**	**160.07**	**160.07**	**147.01**	**147.01**	**160.07**	**141.09**	**128.03**	**128.03**	**128.03**	**128.03**	**101.91**	**101.91**	**82.86**	**73.10**	**73.10**	**73.10**	**46.98**	**46.98**	**40.36**	**40.36**	**73.65**	**73.65**
Onsite Total (lbs/day) [a]	**10.17**	**10.17**	**8.89**	**10.03**	**6.94**	**5.26**	**6.39**	**6.39**	**6.96**	**6.96**	**6.39**	**6.39**	**6.96**	**6.13**	**5.57**	**5.57**	**5.57**	**5.57**	**4.43**	**4.43**	**3.60**	**3.18**	**3.18**	**3.18**	**2.04**	**2.04**	**1.75**	**1.75**	**3.20**	**3.20**
Onsite Total (tons/year)	**1.05**																													

Construction Equipment NOx Emissions from Block 1 Construction

	NOx Emissions (lbs/month)																														
Onsite Equipment	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Water Truck	143.87	143.87	143.87	143.87	143.87	143.87	126.74	126.74	126.74	126.74	126.74	126.74	126.74	126.74	126.74	126.74	126.74	126.74	111.49	111.49	111.49	111.49	111.49	111.49	111.49	111.49	111.49	111.49	111.49	111.49
Excavator	256.34	256.34	256.34	256.34	256.34	128.17	112.93	112.93	112.93	112.93	112.93	112.93	112.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	317.08	317.08	317.08	317.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	128.72	128.72
Cranes	0.00	0.00	0.00	225.10	225.10	225.10	408.21	408.21	510.27	510.27	408.21	408.21	510.27	510.27	408.21	408.21	408.21	408.21	184.24	184.24	184.24	184.24	184.24	184.24	0.00	0.00	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	44.57	44.57	44.57	44.57	44.57	44.57	40.64	40.64	40.64	40.64	40.64	40.64	40.64	40.64	40.64	40.64	40.64	40.64	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	0.00	0.00	0.00	0.00
Rubber Tired Loader	122.03	122.03	61.02	61.02	61.02	61.02	56.36	56.36	56.36	56.36	56.36	56.36	56.36	56.36	56.36	56.36	56.36	56.36	52.08	52.08	52.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	234.51	234.51	117.26	117.26	117.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	72.75	72.75	72.75	72.75	145.49	145.49	134.01	134.01	134.01	134.01	134.01	134.01	134.01	134.01	134.01	134.01	134.01	134.01	123.02	123.02	61.51	61.51	61.51	61.51	61.51	61.51	61.51	61.51	61.51	61.51
Forklift	104.10	104.10	104.10	104.10	104.10	104.10	91.66	91.66	91.66	91.66	91.66	91.66	91.66	91.66	91.66	91.66	91.66	91.66	79.49	79.49	39.74	39.74	39.74	39.74	39.74	39.74	39.74	39.74	39.74	39.74
Roller	140.96	140.96	140.96	140.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.81	60.81
Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**1,436.20**	**1,436.20**	**1,257.93**	**1,483.03**	**1,097.73**	**852.31**	**970.57**	**970.57**	**1,072.62**	**1,072.62**	**970.57**	**970.57**	**1,072.62**	**959.69**	**857.64**	**857.64**	**857.64**	**857.64**	**587.43**	**587.43**	**486.17**	**434.10**	**434.10**	**434.10**	**249.86**	**249.86**	**212.75**	**212.75**	**402.27**	**402.27**
Onsite Total (lbs/day) [a]	**62.44**	**62.44**	**54.69**	**64.48**	**47.73**	**37.06**	**42.20**	**42.20**	**46.64**	**46.64**	**42.20**	**42.20**	**46.64**	**41.73**	**37.29**	**37.29**	**37.29**	**37.29**	**25.54**	**25.54**	**21.14**	**18.87**	**18.87**	**18.87**	**10.86**	**10.86**	**9.25**	**9.25**	**17.49**	**17.49**
Onsite Total (tons/year)	**6.80**																													

Construction Equipment SOx Emissions from Block 1 Construction

	SOx Emissions (lbs/month)																														
Onsite Equipment	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Water Truck	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Excavator	0.46	0.46	0.46	0.46	0.46	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	0.48	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.24
Cranes	0.00	0.00	0.00	0.35	0.35	0.35	0.71	0.71	0.88	0.88	0.71	0.71	0.88	0.88	0.71	0.71	0.71	0.71	0.35	0.35	0.35	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.00	0.00	0.00	0.00
Rubber Tired Loader	0.16	0.16	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	0.26	0.26	0.13	0.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	0.09	0.09	0.09	0.09	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Forklift	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Roller	0.17	0.17	0.17	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09
Other General Industrial Equipment	0.16	0.16	0.16	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**2.33**	**2.33**	**2.12**	**2.48**	**1.75**	**1.39**	**1.75**	**1.75**	**1.92**	**1.92**	**1.75**	**1.75**	**1.92**	**1.69**	**1.52**	**1.52**	**1.52**	**1.52**	**1.16**	**1.16**	**0.97**	**0.89**	**0.89**	**0.89**	**0.54**	**0.54**	**0.47**	**0.47**	**0.79**	**0.79**
Onsite Total (lbs/day) [a]	**0.10**	**0.10**	**0.09**	**0.11**	**0.08**	**0.06**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.05**	**0.05**	**0.04**	**0.04**	**0.04**	**0.04**	**0.02**	**0.02**	**0.02**	**0.02**	**0.03**	**0.03**
Onsite Total (tons/year)	**0.01**																													

Table 5.1A.10R Onsite Construction Equipment Exhaust Emissions

Construction Equipment PM_{10} Emissions from Block 1 Construction

	PM_{10} Emissions (lbs/month)																														
Onsite Equipment	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Water Truck	5.12	5.12	5.12	5.12	5.12	5.12	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
Excavator	13.81	13.81	13.81	13.81	13.81	6.90	5.98	5.98	5.98	5.98	5.98	5.98	5.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	17.48	17.48	17.48	17.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.06	7.06
Cranes	0.00	0.00	0.00	7.72	7.72	7.72	13.91	13.91	17.39	17.39	13.91	13.91	17.39	17.39	13.91	13.91	13.91	13.91	6.31	6.31	6.31	6.31	6.31	6.31	0.00	0.00	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	3.20	3.20	3.20	3.20	3.20	3.20	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	0.00	0.00	0.00	0.00
Rubber Tired Loader	9.77	9.77	4.89	4.89	4.89	4.89	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	3.88	3.88	3.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	19.59	19.59	9.79	9.79	9.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	6.03	6.03	6.03	6.03	12.06	12.06	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	9.23	9.23	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62
Forklift	5.64	5.64	5.64	5.64	5.64	5.64	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.22	4.22	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11
Roller	11.45	11.45	11.45	11.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.69	4.69
Other General Industrial Equipment	6.27	6.27	6.27	6.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**98.36**	**98.36**	**83.68**	**91.40**	**62.23**	**45.54**	**47.06**	**47.06**	**50.54**	**50.54**	**47.06**	**47.06**	**50.54**	**44.56**	**41.08**	**41.08**	**41.08**	**41.08**	**29.97**	**29.97**	**23.24**	**19.36**	**19.36**	**19.36**	**13.06**	**13.06**	**10.74**	**10.74**	**22.49**	**22.49**
Onsite Total (lbs/day) [a]	**4.28**	**4.28**	**3.64**	**3.97**	**2.71**	**1.98**	**2.05**	**2.05**	**2.20**	**2.20**	**2.05**	**2.05**	**2.20**	**1.94**	**1.79**	**1.79**	**1.79**	**1.79**	**1.30**	**1.30**	**1.01**	**0.84**	**0.84**	**0.84**	**0.57**	**0.57**	**0.47**	**0.47**	**0.98**	**0.98**
Onsite Total (tons/year)	**0.38**																													

Construction Equipment $PM_{2.5}$ Emissions from Block 1 Construction

	$PM_{2.5}$ Emissions (lbs/month)																														
Onsite Equipment	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Water Truck	5.12	5.12	5.12	5.12	5.12	5.12	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
Excavator	13.81	13.81	13.81	13.81	13.81	6.90	5.98	5.98	5.98	5.98	5.98	5.98	5.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	17.48	17.48	17.48	17.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.06	7.06
Cranes	0.00	0.00	0.00	7.72	7.72	7.72	13.91	13.91	17.39	17.39	13.91	13.91	17.39	17.39	13.91	13.91	13.91	13.91	6.31	6.31	6.31	6.31	6.31	6.31	0.00	0.00	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	3.20	3.20	3.20	3.20	3.20	3.20	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	0.00	0.00	0.00	0.00
Rubber Tired Loader	9.77	9.77	4.89	4.89	4.89	4.89	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	3.88	3.88	3.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	19.59	19.59	9.79	9.79	9.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	6.03	6.03	6.03	6.03	12.06	12.06	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	9.23	9.23	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62
Forklift	5.64	5.64	5.64	5.64	5.64	5.64	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.22	4.22	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11
Roller	11.45	11.45	11.45	11.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.69	4.69
Other General Industrial Equipment	6.27	6.27	6.27	6.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**98.36**	**98.36**	**83.68**	**91.40**	**62.23**	**45.54**	**47.06**	**47.06**	**50.54**	**50.54**	**47.06**	**47.06**	**50.54**	**44.56**	**41.08**	**41.08**	**41.08**	**41.08**	**29.97**	**29.97**	**23.24**	**19.36**	**19.36**	**19.36**	**13.06**	**13.06**	**10.74**	**10.74**	**22.49**	**22.49**
Onsite Total (lbs/day) [a]	**4.28**	**4.28**	**3.64**	**3.97**	**2.71**	**1.98**	**2.05**	**2.05**	**2.20**	**2.20**	**2.05**	**2.05**	**2.20**	**1.94**	**1.79**	**1.79**	**1.79**	**1.79**	**1.30**	**1.30**	**1.01**	**0.84**	**0.84**	**0.84**	**0.57**	**0.57**	**0.47**	**0.47**	**0.98**	**0.98**
Onsite Total (tons/year)	**0.38**																													

Construction Equipment CO_2 Emissions from Block 1 Construction

	CO_2 Emissions (metric tons/month)																														
Onsite Equipment	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Water Truck	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48
Excavator	20.40	20.40	20.40	20.40	20.40	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	21.23	21.23	21.23	21.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.61	10.61
Cranes	0.00	0.00	0.00	15.51	15.51	15.51	31.02	31.02	38.77	38.77	31.02	31.02	38.77	38.77	31.02	31.02	31.02	31.02	15.51	15.51	15.51	15.51	15.51	15.51	0.00	0.00	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	0.00	0.00	0.00	0.00
Rubber Tired Loader	6.95	6.95	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	11.31	11.31	5.65	5.65	5.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	4.04	4.04	4.04	4.04	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04
Forklift	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49
Roller	7.61	7.61	7.61	7.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.80	3.80
Other General Industrial Equipment	7.18	7.18	7.18	7.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (metric tons/month)	**105.22**	**105.22**	**96.10**	**111.60**	**79.62**	**63.77**	**79.28**	**79.28**	**87.03**	**87.03**	**79.28**	**79.28**	**87.03**	**76.83**	**69.08**	**69.08**	**69.08**	**69.08**	**53.57**	**53.57**	**45.04**	**41.56**	**41.56**	**41.56**	**26.06**	**26.06**	**23.01**	**23.01**	**37.43**	**37.43**
Onsite Total (metric tons/day) [a]	**4.57**	**4.57**	**4.18**	**4.85**	**3.46**	**2.77**	**3.45**	**3.45**	**3.78**	**3.78**	**3.45**	**3.45**	**3.78**	**3.34**	**3.00**	**3.00**	**3.00**	**3.00**	**2.33**	**2.33**	**1.96**	**1.81**	**1.81**	**1.81**	**1.13**	**1.13**	**1.00**	**1.00**	**1.63**	**1.63**
Onsite Total (metric tons/year)	**1052.71**																													

Construction Equipment N_2O Emissions from Block 1 Construction

	N_2O Emissions (metric tons/month)																														
Onsite Equipment	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Water Truck	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004
Excavator	0.0005	0.0005	0.0005	0.0005	0.0005	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Grader	0.0005	0.0005	0.0005	0.0005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0003	0.0003
Cranes	0.0000	0.0000	0.0000	0.0004	0.0004	0.0004	0.0008	0.0008	0.0010	0.0010	0.0008	0.0008	0.0010	0.0010	0.0008	0.0008	0.0008	0.0008	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Tractor/Loader/Backhoe	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000
Rubber Tired Loader	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Crawler Tractor	0.0003	0.0003	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Air Compressor	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Forklift	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Roller	0.0002	0.0002	0.0002	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001
Other General Industrial Equipment	0.0002	0.0002	0.0002	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Onsite Total (metric tons/month)	**0.0027**	**0.0027**	**0.0024**	**0.0028**	**0.0020**	**0.0016**	**0.0020**	**0.0020**	**0.0022**	**0.0022**	**0.0020**	**0.0020**	**0.0022**	**0.0020**	**0.0018**	**0.0018**	**0.0018**	**0.0018**	**0.0014**	**0.0014**	**0.0011**	**0.0011**	**0.0011**	**0.0011**	**0.0007**	**0.0007**	**0.0006**	**0.0006**	**0.0010**	**0.0010**
Onsite Total (metric tons/day) [a]	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**
Onsite Total (metric tons/year)	**0.03**																													

Table 5.1A.10R Onsite Construction Equipment Exhaust Emissions

Construction Equipment CH_4 Emissions from Block 1 Construction

	CH_4 Emissions (metric tons/month)																														
Onsite Equipment	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Water Truck	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
Excavator	0.0012	0.0012	0.0012	0.0012	0.0012	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Grader	0.0012	0.0012	0.0012	0.0012	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0006	0.0006
Cranes	0.0000	0.0000	0.0000	0.0009	0.0009	0.0009	0.0018	0.0018	0.0022	0.0022	0.0018	0.0018	0.0022	0.0022	0.0018	0.0018	0.0018	0.0018	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Tractor/Loader/Backhoe	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0000	0.0000	0.0000	0.0000
Rubber Tired Loader	0.0004	0.0004	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Crawler Tractor	0.0006	0.0006	0.0003	0.0003	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Air Compressor	0.0002	0.0002	0.0002	0.0002	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Forklift	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
Roller	0.0004	0.0004	0.0004	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002	0.0002
Other General Industrial Equipment	0.0004	0.0004	0.0004	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Onsite Total (metric tons/month)	**0.0060**	**0.0060**	**0.0055**	**0.0063**	**0.0045**	**0.0036**	**0.0045**	**0.0045**	**0.0049**	**0.0049**	**0.0045**	**0.0045**	**0.0049**	**0.0044**	**0.0039**	**0.0039**	**0.0039**	**0.0039**	**0.0030**	**0.0030**	**0.0026**	**0.0024**	**0.0024**	**0.0024**	**0.0015**	**0.0015**	**0.0013**	**0.0013**	**0.0021**	**0.0021**
Onsite Total (metric tons/day) [a]	**0.0003**	**0.0003**	**0.0002**	**0.0003**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**
Onsite Total (metric tons/year)	**0.06**																													

Notes:

[a] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls', the days per month are as fo 23

Table 5.1A.11R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle CO Emissions from Block 1 Construction

	CO Emissions (lbs/day)																												
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Onsite Stake Truck	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Onsite Dump Truck	0.05	0.05	0.05	0.05	0.05	0.05	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.15**	**0.15**	**0.15**	**0.15**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**
	CO Emissions (lbs/month) [a]																												
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Onsite Stake Truck	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
Onsite Dump Truck	1.09	1.09	1.09	1.09	1.09	1.09	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.45**	**3.45**	**3.45**	**3.45**	**2.35**	**2.35**	**2.35**	**2.35**	**2.35**	**2.35**	**2.35**	**2.35**	**2.35**	**2.35**	**2.35**	**2.35**	**2.35**	**2.35**	**1.81**	**1.81**	**1.81**	**1.81**	**1.81**	**1.81**
Onsite Total (tons/year)	**0.02**																													

Onsite Construction Vehicle VOC Emissions from Block 1 Construction

	VOC Emissions (lbs/day)																												
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Stake Truck	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Onsite Dump Truck	0.03	0.03	0.03	0.03	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.085**	**0.085**	**0.085**	**0.085**	**0.085**	**0.085**	**0.071**	**0.071**	**0.071**	**0.071**	**0.044**	**0.044**	**0.044**	**0.044**	**0.044**	**0.044**	**0.044**	**0.044**	**0.044**	**0.044**	**0.044**	**0.044**	**0.044**	**0.044**	**0.030**	**0.030**	**0.030**	**0.030**	**0.030**	**0.030**
	VOC Emissions (lbs/month) [a]																												
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Onsite Stake Truck	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
Onsite Dump Truck	0.64	0.64	0.64	0.64	0.64	0.64	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**1.96**	**1.96**	**1.96**	**1.96**	**1.96**	**1.96**	**1.64**	**1.64**	**1.64**	**1.64**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**0.68**	**0.68**	**0.68**	**0.68**	**0.68**	**0.68**
Onsite Total (tons/year)	**0.01**																													

Onsite Construction Vehicle SOx Emissions from Block 1 Construction

	SOx Emissions (lbs/day)																												
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010
Onsite Stake Truck	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016
Onsite Dump Truck	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Onsite Total (lbs/day)	**0.00059**	**0.00059**	**0.00059**	**0.00059**	**0.00059**	**0.00059**	**0.00050**	**0.00050**	**0.00050**	**0.00050**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00026**	**0.00026**	**0.00026**	**0.00026**	**0.00026**	**0.00026**
	SOx Emissions (lbs/month) [a]																												
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022
Onsite Stake Truck	0.0075	0.0075	0.0075	0.0075	0.0075	0.0075	0.0075	0.0075	0.0075	0.0075	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038
Onsite Dump Truck	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Onsite Total (lbs/month)	**0.0135**	**0.0135**	**0.0135**	**0.0135**	**0.0135**	**0.0135**	**0.0116**	**0.0116**	**0.0116**	**0.0116**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0060**	**0.0060**	**0.0060**	**0.0060**	**0.0060**	**0.0060**
Onsite Total (tons/year)	**0.00**																													

Onsite Construction Vehicle NOx Emissions from Block 1 Construction

	NOx Emissions (lbs/day)																												
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Onsite Stake Truck	0.165	0.165	0.165	0.165	0.165	0.165	0.147	0.147	0.147	0.147	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066
Onsite Dump Truck	0.082	0.082	0.082	0.082	0.082	0.082	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.033	0.033	0.033	0.033	0.033	0.033	0.000	0.000	0.000	0.000	0.000	0.000
Onsite Total (lbs/day)	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.19**	**0.19**	**0.19**	**0.19**	**0.11**	**0.11**	**0.11**	**0.11**	**0.11**	**0.11**	**0.11**	**0.11**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**
	NOx Emissions (lbs/month) [a]																												
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Onsite Stake Truck	3.79	3.79	3.79	3.79	3.79	3.79	3.38	3.38	3.38	3.38	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51
Onsite Dump Truck	1.90	1.90	1.90	1.90	1.90	1.90	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.76	0.76	0.76	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**5.75**	**5.75**	**5.75**	**5.75**	**5.75**	**5.75**	**4.28**	**4.28**	**4.28**	**4.28**	**2.59**	**2.59**	**2.59**	**2.59**	**2.59**	**2.59**	**2.59**	**2.59**	**2.33**	**2.33**	**2.33**	**2.33**	**2.33**	**2.33**	**1.57**	**1.57**	**1.57**	**1.57**	**1.57**	**1.57**
Onsite Total (tons/year)	**0.03**																													

Onsite Construction Vehicle PM_{10} Emissions from Block 1 Construction

	PM_{10} Emissions (lbs/day)																												
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Onsite Stake Truck	0.009	0.009	0.009	0.009	0.009	0.009	0.007	0.007	0.007	0.007	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Onsite Dump Truck	0.004	0.004	0.004	0.004	0.004	0.004	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000
Onsite Total (lbs/day)	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.010**	**0.010**	**0.010**	**0.010**	**0.007**	**0.007**	**0.007**	**0.007**	**0.007**	**0.007**	**0.007**	**0.007**	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**
	PM_{10} Emissions (lbs/month) [a]																												
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Onsite Stake Truck	0.20	0.20	0.20	0.20	0.20	0.20	0.17	0.17	0.17	0.17	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Onsite Dump Truck	0.10	0.10	0.10	0.10	0.10	0.10	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**0.33**	**0.33**	**0.33**	**0.33**	**0.33**	**0.33**	**0.24**	**0.24**	**0.24**	**0.24**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.13**	**0.13**	**0.13**	**0.13**	**0.13**	**0.13**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**
Onsite Total (tons/year)	**0.00**																													

Onsite Construction Vehicle $PM_{2.5}$ Emissions from Block 1 Construction

	$PM_{2.5}$ Emissions (lbs/day)																												
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Onsite Stake Truck	0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Onsite Dump Truck	0.004	0.004	0.004	0.004	0.004	0.004	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000
Onsite Total (lbs/day)	**0.013**	**0.013**	**0.013**	**0.013**	**0.013**	**0.013**	**0.009**	**0.009**	**0.009**	**0.009**	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**
	$PM_{2.5}$ Emissions (lbs/month) [a]																												
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Onsite Stake Truck	0.18	0.18	0.18	0.18	0.18	0.18	0.15	0.15	0.15	0.15	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Onsite Dump Truck	0.09	0.09	0.09	0.09	0.09	0.09	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**0.29**	**0.29**	**0.29**	**0.29**	**0.29**	**0.29**	**0.21**	**0.21**	**0.21**	**0.21**	**0.13**	**0.13**	**0.13**	**0.13**	**0.13**	**0.13**	**0.13**	**0.13**	**0.11**	**0.11**	**0.11**	**0.11**	**0.11**	**0.11**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**
Onsite Total (tons/year)	**0.00**																													

Table 5.1A.11R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle CO_2 Emissions from Block 1 Construction

	CO_2 Emissions (metric tons/day)																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Onsite Stake Truck	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Onsite Dump Truck	0.008	0.008	0.008	0.008	0.008	0.008	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000
Onsite Total (metric tons/day)	**0.028**	**0.028**	**0.028**	**0.028**	**0.028**	**0.028**	**0.024**	**0.024**	**0.024**	**0.024**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.013**	**0.013**	**0.013**	**0.013**	**0.013**	**0.013**
	CO_2 Emissions (metric tons/month) [a]																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Onsite Stake Truck	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Onsite Dump Truck	0.18	0.18	0.18	0.18	0.18	0.18	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (metric tons/month)	**0.65**	**0.65**	**0.65**	**0.65**	**0.65**	**0.65**	**0.56**	**0.56**	**0.56**	**0.56**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.29**	**0.29**	**0.29**	**0.29**	**0.29**	**0.29**
Onsite Total (metric tons/year)	**6.86**																													

Onsite Construction Vehicle N_2O Emissions from Block 1 Construction

	N_2O Emissions (metric tons/day)																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026
Onsite Stake Truck	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010
Onsite Dump Truck	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Onsite Total (metric tons/day)	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000050**	**0.000000050**	**0.000000050**	**0.000000050**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000036**	**0.000000036**	**0.000000036**	**0.000000036**	**0.000000036**	**0.000000036**
	N_2O Emissions (metric tons/month) [a]																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061
Onsite Stake Truck	0.00000044	0.00000044	0.00000044	0.00000044	0.00000044	0.00000044	0.00000044	0.00000044	0.00000044	0.00000044	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022
Onsite Dump Truck	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Onsite Total (metric tons/month)	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000012**	**0.0000012**	**0.0000012**	**0.0000012**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000008**	**0.0000008**	**0.0000008**	**0.0000008**	**0.0000008**	**0.0000008**
Onsite Total (metric tons/year)	**0.000014**																													

Onsite Construction Vehicle CH_4 Emissions from Block 1 Construction

	CH_4 Emissions (metric tons/day)																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065
Onsite Stake Truck	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010
Onsite Dump Truck	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Onsite Total (metric tons/day)	**0.000000096**	**0.000000096**	**0.000000096**	**0.000000096**	**0.000000096**	**0.000000096**	**0.000000091**	**0.000000091**	**0.000000091**	**0.000000091**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000075**	**0.000000075**	**0.000000075**	**0.000000075**	**0.000000075**	**0.000000075**
	CH_4 Emissions (metric tons/month) [a]																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015
Onsite Stake Truck	0.0000005	0.0000005	0.0000005	0.0000005	0.0000005	0.0000005	0.0000005	0.0000005	0.0000005	0.0000005	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002
Onsite Dump Truck	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Onsite Total (metric tons/month)	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000021**	**0.0000021**	**0.0000021**	**0.0000021**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000017**	**0.0000017**	**0.0000017**	**0.0000017**	**0.0000017**	**0.0000017**
Onsite Total (metric tons/year)	**0.00003**																													

Notes:

[a] The days per month are per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls', as presented on the 'Fugitive Dust' tab.

Table 5.1A.12R Onsite Construction Fugitive Dust Emissions

Grading and Bulldozing Activity Levels for Block 1 Construction

Source	Monthly Activity Levels																													
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Onsite Disturbance (acres) [a]	1.33	1.33	1.33	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33	1.33
Bulldozer Operation (hours) [b]	460.00	460.00	230.00	230.00	230.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite Disturbance (acres) [c]	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33

Notes:
[a] A total of 8 acres is disturbed during Block 1 Construction as estimated by H. Larios/PEC on 3/23/12; assumed this disturbance was equally distributed amongst the months in which graders are utilized.
[b] Bulldozer Operation calculated based on the number of equipment and the hours of operation per month, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls':
Hours per Day: 10
Days per Month: 23
[c] Estimated a total of 16 acres is disturbed at Alamitos for a laydown area during Block 1 and Block 2 Construction and assumed this disturbance was equally distributed amongst the construction activity (48 months total). Also assumed only fugitive dust from grading would occur in this location (i.e., not bulldozing).

Onsite Construction Vehicle Fugitive PM_{10} Emissions from Block 1 Construction

Vehicle Type	Fugitive PM_{10} Emissions (lbs/day) [a]																													
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Onsite Pick-up Truck	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
Onsite Stake Truck	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Onsite Dump Truck	0.69	0.69	0.69	0.69	0.69	0.69	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**3.47**	**3.47**	**3.47**	**3.47**	**3.47**	**3.47**	**3.12**	**3.12**	**3.12**	**3.12**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.08**	**2.08**	**2.08**	**2.08**	**2.08**	**2.08**

Vehicle Type	Fugitive PM_{10} Emissions (lbs/month) [a]																													
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Onsite Pick-up Truck	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90
Onsite Stake Truck	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95
Onsite Dump Truck	15.95	15.95	15.95	15.95	15.95	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**79.76**	**79.76**	**79.76**	**79.76**	**79.76**	**71.78**	**71.78**	**71.78**	**71.78**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**47.85**	**47.85**	**47.85**	**47.85**	**47.85**	**47.85**
Onsite Total (tons/year)	**0.44**																													

Notes:
[a] Emissions based on highest (controlled) unpaved road emission factor for PM_{10}.

Onsite Construction Vehicle Fugitive $PM_{2.5}$ Emissions from Block 1 Construction

Vehicle Type	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a]																													
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Onsite Pick-up Truck	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Onsite Stake Truck	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Onsite Dump Truck	0.07	0.07	0.07	0.07	0.07	0.07	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.31**	**0.31**	**0.31**	**0.31**	**0.24**	**0.24**	**0.24**	**0.24**	**0.24**	**0.24**	**0.24**	**0.24**	**0.24**	**0.24**	**0.24**	**0.24**	**0.24**	**0.24**	**0.21**	**0.21**	**0.21**	**0.21**	**0.21**	**0.21**

Vehicle Type	Fugitive $PM_{2.5}$ Emissions (lbs/month) [a]																													
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Onsite Pick-up Truck	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19
Onsite Stake Truck	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
Onsite Dump Truck	1.60	1.60	1.60	1.60	1.60	1.60	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**7.98**	**7.98**	**7.98**	**7.98**	**7.98**	**7.98**	**7.18**	**7.18**	**7.18**	**7.18**	**5.58**	**5.58**	**5.58**	**5.58**	**5.58**	**5.58**	**5.58**	**5.58**	**5.58**	**5.58**	**5.58**	**5.58**	**5.58**	**5.58**	**4.79**	**4.79**	**4.79**	**4.79**	**4.79**	**4.79**
Onsite Total (tons/year)	**0.04**																													

Notes:
[a] Emissions based on the highest (controlled) unpaved road emission factor for $PM_{2.5}$.

Onsite Grading and Bulldozing Fugitive PM_{10} Emissions from Block 1 Construction

Construction Activity	Fugitive PM_{10} Emissions (lbs/day) [a, b]																													
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Grading [c]	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
Bulldozing	2.41	2.41	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**2.42**	**2.42**	**1.21**	**1.21**	**1.20**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.01**	**0.01**

Construction Activity	Fugitive PM_{10} Emissions (lbs/month) [a, b]																													
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Grading	0.23	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.23
Bulldozing	55.40	27.70	27.70	27.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**55.63**	**27.93**	**27.93**	**27.70**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.23**	**0.23**
Onsite Total (tons/year)	**0.10**																													

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Emissions based on the highest (controlled) emission factor for PM_{10}.
[c] Per Section 4.3 of Appendix A of the CalEEMod User's Guide, the following blade width was assumed for grading equipment: 12 ft

Onsite Grading and Bulldozing Fugitive $PM_{2.5}$ Emissions from Block 1 Construction

Construction Activity	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a, b]																													
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Grading [c]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulldozing	1.32	1.32	0.66	0.66	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**1.33**	**1.33**	**0.66**	**0.66**	**0.66**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Construction Activity	Fugitive $PM_{2.5}$ Emissions (lbs/month) [a, b]																													
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Grading	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02
Bulldozing	30.45	30.45	15.23	15.23	15.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**30.48**	**30.48**	**15.25**	**15.25**	**15.23**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.02**	**0.02**
Onsite Total (tons/year)	**0.05**																													

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Emissions based on the highest (controlled) emission factor for $PM_{2.5}$.
[c] Per Section 4.3 of Appendix A of the CalEEMod User's Guide, the following blade width was assumed for grading equipment: 12 ft

Offsite Grading Fugitive PM_{10} Emissions from Block 1 Construction

Construction Activity	Fugitive PM_{10} Emissions (lbs/day) [a]																													
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Grading [b]	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Offsite Total (lbs/day)	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**

Construction Activity	Fugitive PM_{10} Emissions (lbs/month) [a]																													
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Grading	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Offsite Total (lbs/month)	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**
Offsite Total (tons/year)	**0.00**																													

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Per Section 4.3 of Appendix A of the CalEEMod User's Guide, the following blade width was assumed for grading equipment: 12 ft

Offsite Grading Fugitive $PM_{2.5}$ Emissions from Block 1 Construction

Construction Activity	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a]																													
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Grading [b]	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017
Offsite Total (lbs/day)	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**

Construction Activity	Fugitive $PM_{2.5}$ Emissions (lbs/month) [a]																													
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Grading	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
Offsite Total (lbs/month)	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**
Offsite Total (tons/year)	**0.00**																													

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Per Section 4.3 of Appendix A of the CalEEMod User's Guide, the following blade width was assumed for grading equipment: 12 ft

Table 5.1A.12R Onsite Construction Fugitive Dust Emissions

Onsite Construction Vehicle Activity for Block 1 Construction

Vehicle Type	Miles/Day [a]	Working Days per Month [b]
Onsite Pick-up Truck	2	23
Onsite Stake Truck	2	23
Onsite Dump Truck	1	23

Notes:
[a] Estimated based on the dimensions of the project site.
[b] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Fugitive Dust Emission Factors for Unpaved Roads

Vehicles on Unpaved Surfaces at Industrial Sites

Parameter	PM_{10}	$PM_{2.5}$
Mean Vehicle Weight [a]	16.5	16.5
Silt Content [b]	8.5	8.5
k [c]	1.5	0.15
a [c]	0.9	0.9
b [c]	0.45	0.45
P [d]	31	31
Emission Factor (Uncontrolled, lbs/mile) [e]	2.17	0.22
Reduction from Applying Soil Stabilizers [f]	84%	84%
Emission Factor (Controlled, lbs/mile)	0.35	0.03

Notes:
[a] Mean vehicle weight assumes that medium/heavy duty trucks weigh 16.5 tons.
[b] Silt content taken from Table 13.2.2-1 of Section 13.2.2 of AP-42 for a Construction Site, Scraper Route; this value is consistent with the CalEEMod defaults for the South Coast Air Basin.
[c] k, a, and b taken from Table 13.2.2-2 of Section 13.2.2 of AP-42 for industrial roads.
[d] P taken as the CalEEMod default for the Huntington Beach climate region of the South Coast Air Basin.
[e] Emission factor calculated using Equations 1a and 2 from Section 13.2.2 of AP-42:

Emission Factor (lbs/mile) = {k (lbs/mile) x [Silt Content (%) / 12]^{a} x [Mean Vehicle Weight (tons) / 3]^{b}} x [(365 - P) / 365]

[f] Control efficiency taken from Table XI-D of the SCAQMD CEQA Handbook for Travel Over Unpaved Roads.

Fugitive Dust Emission Factors for Grading

Grading Equipment Passes

Parameter	PM_{10}	$PM_{2.5}$
S (mph) [a]	7.1	7.1
F [a]	0.6	0.031
Emission Factor (lbs/VMT) [b]	1.543	0.167
Reduction from Applying Soil Stabilizers [c]	84%	84%
Emission Factor (Controlled, lbs/VMT)	0.247	0.027

Notes:
[a] The mean vehicle speed (S) and the particulate matter scaling factor (F) taken from Section 11.9 of AP-42 per Section 4.3 of Appendix A of the CalEEMod User's Guide.
[b] Emission factor calculated using the following equation from Section 4.3 of Appendix A of the CalEEMod User's Guide:

PM_{10} Emission Factor (lbs/VMT) = 0.051 x $(S)^{2.0}$ x F_{PM10}

$PM_{2.5}$ Emission Factor (lbs/VMT) = 0.04 x $(S)^{2.5}$ x $F_{PM2.5}$

[c] Control efficiency taken from Table XI-A of the SCAQMD CEQA Handbook for Post-demolition Stabilization.

Fugitive Dust Emission Factors for Bulldozing

Bulldozing Equipment Passes

Parameter	PM_{10}	$PM_{2.5}$
C [a]	1.0	5.7
M (%) [a]	7.9	7.9
s (%) [a]	6.9	6.9
F [a]	0.75	0.105
Emission Factor (lbs/hr) [b]	0.753	0.414
Reduction from Applying Soil Stabilizers [c]	84%	84%
Emission Factor (Controlled, lbs/hr)	0.120	0.066

Notes:
[a] The arbitrary coefficient (C), material moisture content (M), material silt content (s), and particulate matter scaling factor (F) taken from Section 11.9 of AP-42 per Section 4.3 of Appendix A of the CalEEMod User's Guide. These values are consistent with the CalEEMod defaults for the South Coast Air Basin.
[b] Emission factor calculated using the following equation from Section 4.3 of Appendix A of the CalEEMod User's Guide:

PM_{10} Emission Factor (lbs/hr) = [(C x $s^{1.5}$) / $M^{1.4}$)] x F_{PM10}

$PM_{2.5}$ Emission Factor (lbs/hr) = [(C x $s^{1.5}$) / $M^{1.4}$)] x $F_{PM2.5}$

[c] Control efficiency taken from Table XI-A of the SCAQMD CEQA Handbook for Post-demolition Stabilization.

Huntington Beach Energy Project
Construction Emission Estimates - Block 1 Construction
April 2014

Table 5.1A.13R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle Usage During Block 1 Construction

	Number per Day																														
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks [a]	0.00	0.00	0.00	0.75	0.75	0.75	0.75	0.75	0.75	0.75	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Material Hauling Trucks [b, c]	0.40	0.63	1.38	1.38	2.88	2.88	3.25	4.75	5.75	5.75	7.25	8.75	10.75	11.35	11.25	11.10	10.50	8.70	7.70	7.70	7.20	7.20	3.50	2.50	2.50	2.50	2.50	0.50	0.50	0.50
Directly to HBEP	0.16	0.25	0.55	0.55	1.15	1.15	1.30	1.90	2.30	2.30	2.90	3.50	4.30	4.54	4.50	4.44	4.20	3.48	3.08	3.08	2.88	2.88	1.40	1.00	1.00	1.00	1.00	0.20	0.20	0.20
Directly to Alamitos	0.24	0.38	0.83	0.83	1.73	1.73	1.95	2.85	3.45	3.45	4.35	5.25	6.45	6.81	6.75	6.66	6.30	5.22	4.62	4.62	4.32	4.32	2.10	1.50	1.50	1.50	1.50	0.30	0.30	0.30
To HBEP from Alamitos	0.24	0.38	0.83	0.83	1.73	1.73	1.95	2.85	3.45	3.45	4.35	5.25	6.45	6.81	6.75	6.66	6.30	5.22	4.62	4.62	4.32	4.32	2.10	1.50	1.50	1.50	1.50	0.30	0.30	0.30
Construction Worker Commute [d]	2.00	38.00	41.00	49.00	65.00	69.00	73.00	73.00	86.00	98.00	115.00	109.00	123.00	125.00	131.00	135.00	160.00	176.00	180.00	194.00	197.00	209.00	207.00	220.00	220.00	226.00	226.00	230.00	200.00	195.00

Notes:

[a] Offsite Delivery Trucks include trucks transporting "Consumables & Supplies", as provided in 'Huntington Beach Truck Deliveries 032112.xls'. It was assumed that these trucks travel directly to HBEP. Due to the revised, shortened construction duration and in the absence of updated engineering data, the last 6 months of delivery data provided in 'Huntington Beach Truck Deliveries 032112.xls' were not utilized.

[b] Material Hauling Trucks include trucks transporting "Mechanical Equipment", "Electrical Equip. & Mtrls", "Piping, Supports, & Valves", "Concrete and Rebar", "Steel/Architectural", "Contractor Mobilization", "Contractor Demobilization", "Construction Equipment", "HRSGs", "CGTs", "CTGs", "STGs", and "Main Transformers", as provided in 'Huntington Beach Truck Deliveries 032112.xls'. Due to the revised, shortened construction duration and in the absence of updated engineering data, the last 6 months of hauling data provided in 'Huntington Beach Truck Deliveries 032112.xls' were not utilized.

[c] Per "Huntington Beach Truck Deliveries 032112.xls", assumed that 40% of the material haul trucks travel directly to HBEP, that the remaining 60% travel directly to Alamitos, and that all of the materials delivered to Alamitos will later be delivered to HBEP.

[d] Assumed 1 commute per 1 worker; number of workers taken from 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'. Due to the revised, shortened construction duration and in the absence of updated engineering data, the last 12 months of manhour data provided in 'Manpower_Schedule_Huntington_Beach 03.13.12.xls' were not utilized.

Offsite Vehicle CO Emissions from Block 1 Construction

	CO Emissions (lbs/day)																														
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.000	0.000	0.000	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
Material Hauling Trucks																														
Directly to HBEP	0.024	0.038	0.083	0.083	0.174	0.174	0.197	0.288	0.349	0.349	0.439	0.530	0.652	0.688	0.682	0.673	0.636	0.527	0.467	0.467	0.436	0.436	0.212	0.152	0.152	0.152	0.152	0.030	0.030	0.030
Directly to Alamitos	0.036	0.057	0.125	0.125	0.261	0.261	0.296	0.432	0.523	0.523	0.659	0.796	0.977	1.032	1.023	1.009	0.955	0.791	0.700	0.700	0.655	0.655	0.318	0.227	0.227	0.227	0.227	0.045	0.045	0.045
To HBEP from Alamitos	0.024	0.037	0.081	0.081	0.170	0.170	0.192	0.281	0.340	0.340	0.428	0.517	0.635	0.671	0.665	0.656	0.621	0.514	0.455	0.455	0.426	0.426	0.207	0.148	0.148	0.148	0.148	0.030	0.030	0.030
Construction Worker Commute	0.137	2.596	2.801	3.347	4.440	4.713	4.987	4.987	5.875	6.694	7.856	7.446	8.402	8.539	8.949	9.222	10.930	12.022	12.296	13.252	13.457	14.277	14.140	15.028	15.028	15.438	15.438	15.711	13.662	13.320
Offsite Total (lbs/day)	**0.221**	**2.727**	**3.090**	**3.691**	**5.100**	**5.373**	**5.725**	**6.041**	**7.140**	**7.960**	**9.455**	**9.361**	**10.739**	**11.002**	**11.391**	**11.632**	**13.214**	**13.927**	**13.990**	**14.946**	**15.046**	**15.866**	**14.895**	**15.573**	**15.573**	**15.983**	**15.983**	**15.835**	**13.785**	**13.444**
	CO Emissions (lbs/month)																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.000	0.000	0.000	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416
Material Hauling Trucks																														
Directly to HBEP	0.558	0.871	1.917	1.917	4.008	4.008	4.531	6.622	8.017	8.017	10.108	12.199	14.988	15.824	15.685	15.476	14.639	12.130	10.735	10.735	10.038	10.038	4.880	3.485	3.485	3.485	3.485	0.697	0.697	0.697
Directly to Alamitos	0.837	1.307	2.876	2.876	6.012	6.012	6.797	9.934	12.025	12.025	15.162	18.299	22.481	23.736	23.527	23.213	21.959	18.194	16.103	16.103	15.057	15.057	7.320	5.228	5.228	5.228	5.228	1.046	1.046	1.046
To HBEP from Alamitos	0.544	0.850	1.869	1.869	3.908	3.908	4.418	6.457	7.816	7.816	9.855	11.894	14.613	15.429	15.293	15.089	14.273	11.826	10.467	10.467	9.787	9.787	4.758	3.398	3.398	3.398	3.398	0.680	0.680	0.680
Construction Worker Commute	3.142	59.703	64.416	76.985	102.123	108.407	114.692	114.692	135.116	153.970	180.679	171.252	193.248	196.390	205.817	212.101	251.379	276.517	282.801	304.797	309.510	328.364	325.222	345.646	345.646	355.073	355.073	361.357	314.224	306.368
Offsite Total (lbs/month)	**5.08**	**62.73**	**71.08**	**84.90**	**117.30**	**123.58**	**131.69**	**138.95**	**164.22**	**183.08**	**217.47**	**215.31**	**246.99**	**253.04**	**261.99**	**267.54**	**303.91**	**320.33**	**321.77**	**343.77**	**346.06**	**364.91**	**342.59**	**358.17**	**358.17**	**367.60**	**367.60**	**364.20**	**317.06**	**309.21**
Offsite Total (tons/year)	**2.09**																													

Offsite Vehicle VOC Emissions from Block 1 Construction

	VOC Emissions (lbs/day)																														
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.000	0.000	0.000	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Material Hauling Trucks																														
Directly to HBEP	0.004	0.006	0.014	0.014	0.029	0.029	0.033	0.049	0.059	0.059	0.074	0.090	0.110	0.116	0.115	0.114	0.107	0.089	0.079	0.079	0.074	0.074	0.036	0.026	0.026	0.026	0.026	0.005	0.005	0.005
Directly to Alamitos	0.006	0.010	0.021	0.021	0.044	0.044	0.050	0.073	0.088	0.088	0.111	0.134	0.165	0.174	0.173	0.170	0.161	0.133	0.118	0.118	0.110	0.110	0.054	0.038	0.038	0.038	0.038	0.008	0.008	0.008
To HBEP from Alamitos	0.004	0.006	0.014	0.014	0.029	0.029	0.032	0.047	0.057	0.057	0.072	0.087	0.107	0.113	0.112	0.111	0.105	0.087	0.077	0.077	0.072	0.072	0.035	0.025	0.025	0.025	0.025	0.005	0.005	0.005
Construction Worker Commute	0.003	0.052	0.056	0.067	0.088	0.094	0.099	0.099	0.117	0.133	0.156	0.148	0.167	0.170	0.178	0.183	0.217	0.239	0.244	0.263	0.267	0.284	0.281	0.299	0.299	0.307	0.307	0.312	0.271	0.265
Offsite Total (lbs/day)	**0.017**	**0.074**	**0.105**	**0.126**	**0.201**	**0.207**	**0.226**	**0.279**	**0.332**	**0.348**	**0.428**	**0.474**	**0.564**	**0.588**	**0.592**	**0.592**	**0.605**	**0.563**	**0.533**	**0.552**	**0.538**	**0.554**	**0.409**	**0.391**	**0.391**	**0.399**	**0.399**	**0.334**	**0.293**	**0.286**
	VOC Emissions (lbs/month)																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.000	0.000	0.000	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084
Material Hauling Trucks																														
Directly to HBEP	0.094	0.147	0.324	0.324	0.676	0.676	0.765	1.118	1.353	1.353	1.706	2.059	2.529	2.670	2.647	2.612	2.470	2.047	1.812	1.812	1.694	1.694	0.823	0.588	0.588	0.588	0.588	0.118	0.118	0.118
Directly to Alamitos	0.141	0.221	0.485	0.485	1.015	1.015	1.147	1.676	2.029	2.029	2.559	3.088	3.794	4.006	3.970	3.917	3.706	3.070	2.717	2.717	2.541	2.541	1.235	0.882	0.882	0.882	0.882	0.176	0.176	0.176
To HBEP from Alamitos	0.092	0.143	0.315	0.315	0.660	0.660	0.746	1.090	1.319	1.319	1.663	2.007	2.466	2.604	2.581	2.546	2.409	1.996	1.766	1.766	1.652	1.652	0.803	0.573	0.573	0.573	0.573	0.115	0.115	0.115
Construction Worker Commute	0.062	1.186	1.280	1.530	2.029	2.154	2.279	2.279	2.684	3.059	3.590	3.402	3.839	3.902	4.089	4.214	4.994	5.494	5.619	6.056	6.149	6.524	6.461	6.867	6.867	7.054	7.054	7.179	6.243	6.087
Offsite Total (lbs/month)	**0.389**	**1.697**	**2.404**	**2.905**	**4.631**	**4.756**	**5.187**	**6.414**	**7.637**	**8.012**	**9.852**	**10.891**	**12.964**	**13.517**	**13.622**	**13.624**	**13.914**	**12.942**	**12.249**	**12.686**	**12.371**	**12.746**	**9.407**	**8.995**	**8.995**	**9.182**	**9.182**	**7.672**	**6.735**	**6.579**
Offsite Total (tons/year)	**0.076**																													

Offsite Vehicle SOx Emissions from Block 1 Construction

	SOx Emissions (lbs/day)																														
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.0000	0.0000	0.0000	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Material Hauling Trucks																														
Directly to HBEP	0.0002	0.0003	0.0008	0.0008	0.0016	0.0016	0.0018	0.0026	0.0031	0.0031	0.0040	0.0048	0.0059	0.0062	0.0062	0.0061	0.0057	0.0048	0.0042	0.0042	0.0039	0.0039	0.0019	0.0014	0.0014	0.0014	0.0014	0.0003	0.0003	0.0003
Directly to Alamitos	0.0003	0.0005	0.0011	0.0011	0.0024	0.0024	0.0027	0.0039	0.0047	0.0047	0.0059	0.0072	0.0088	0.0093	0.0092	0.0091	0.0086	0.0071	0.0063	0.0063	0.0059	0.0059	0.0029	0.0021	0.0021	0.0021	0.0021	0.0004	0.0004	0.0004
To HBEP from Alamitos	0.0002	0.0003	0.0007	0.0007	0.0015	0.0015	0.0017	0.0025	0.0031	0.0031	0.0039	0.0047	0.0057	0.0061	0.0060	0.0059	0.0056	0.0046	0.0041	0.0041	0.0038	0.0038	0.0019	0.0013	0.0013	0.0013	0.0013	0.0003	0.0003	0.0003
Construction Worker Commute	0.0003	0.0063	0.0068	0.0082	0.0108	0.0115	0.0122	0.0122	0.0143	0.0163	0.0192	0.0182	0.0205	0.0208	0.0218	0.0225	0.0267	0.0293	0.0300	0.0323	0.0328	0.0348	0.0345	0.0367	0.0367	0.0377	0.0377	0.0383	0.0333	0.0325
Offsite Total (lbs/day)	**0.0011**	**0.0075**	**0.0094**	**0.0112**	**0.0167**	**0.0174**	**0.0188**	**0.0216**	**0.0257**	**0.0277**	**0.0335**	**0.0353**	**0.0415**	**0.0429**	**0.0438**	**0.0441**	**0.0472**	**0.0464**	**0.0452**	**0.0475**	**0.0471**	**0.0491**	**0.0413**	**0.0416**	**0.0416**	**0.0426**	**0.0426**	**0.0394**	**0.0344**	**0.0336**
	SOx Emissions (lbs/month)																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.0000	0.0000	0.0000	0.0094	0.0094	0.0094	0.0094	0.0094	0.0094	0.0094	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031
Material Hauling Trucks																														
Directly to HBEP	0.0050	0.0079	0.0173	0.0173	0.0362	0.0362	0.0409	0.0597	0.0723	0.0723	0.0912	0.1100	0.1352	0.1427	0.1415	0.1396	0.1320	0.1094	0.0968	0.0968	0.0905	0.0905	0.0440	0.0314	0.0314	0.0314	0.0314	0.0063	0.0063	0.0063
Directly to Alamitos	0.0075	0.0118	0.0259	0.0259	0.0542	0.0542	0.0613	0.0896	0.1085	0.1085	0.1368	0.1650	0.2028	0.2141	0.2122	0.2094	0.1981	0.1641	0.1452	0.1452	0.1358	0.1358	0.0660	0.0472	0.0472	0.0472	0.0472	0.0094	0.0094	0.0094
To HBEP from Alamitos	0.0049	0.0077	0.0169	0.0169	0.0352	0.0352	0.0398	0.0582	0.0705	0.0705	0.0889	0.1073	0.1318	0.1392	0.1379	0.1361	0.1287	0.1067	0.0944	0.0944	0.0883	0.0883	0.0429	0.0307	0.0307	0.0307	0.0307	0.0061	0.0061	0.0061
Construction Worker Commute	0.0077	0.1457	0.1572	0.1878	0.2492	0.2645	0.2798	0.2798	0.3297	0.3757	0.4408	0.4178	0.4715	0.4792	0.5022	0.5175	0.6133	0.6747	0.6900	0.7437	0.7552	0.8012	0.7935	0.8433	0.8433	0.8663	0.8663	0.8817	0.7667	0.7475
Offsite Total (lbs/month)	**0.0251**	**0.1730**	**0.2173**	**0.2574**	**0.3842**	**0.3996**	**0.4313**	**0.4968**	**0.5904**	**0.6364**	**0.7702**	**0.8128**	**0.9538**	**0.9877**	**1.0064**	**1.0151**	**1.0847**	**1.0674**	**1.0391**	**1.0927**	**1.0824**	**1.1284**	**0.9496**	**0.9557**	**0.9557**	**0.9787**	**0.9787**	**0.9067**	**0.7917**	**0.7725**
Offsite Total (tons/year)	**0.006**																													

Table 5.1A.13R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle NOx Emissions from Block 1 Construction

	NOx Emissions (lbs/day)																														
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.00	0.00	0.00	0.16	0.16	0.16	0.14	0.14	0.14	0.14	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.17	0.17	0.17	0.17	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Material Hauling Trucks																														
Directly to HBEP	0.07	0.11	0.25	0.25	0.52	0.52	0.52	0.76	0.92	0.92	1.16	1.40	1.72	1.81	1.80	1.77	1.68	1.39	1.10	1.10	1.03	1.03	0.50	0.36	0.36	0.36	0.36	0.07	0.07	0.07
Directly to Alamitos	0.11	0.17	0.37	0.37	0.77	0.77	0.78	1.14	1.38	1.38	1.74	2.10	2.58	2.72	2.69	2.66	2.52	2.08	1.65	1.65	1.54	1.54	0.75	0.54	0.54	0.54	0.54	0.11	0.11	0.11
To HBEP from Alamitos	0.07	0.11	0.24	0.24	0.50	0.50	0.51	0.74	0.90	0.90	1.13	1.36	1.67	1.77	1.75	1.73	1.63	1.35	1.07	1.07	1.00	1.00	0.49	0.35	0.35	0.35	0.35	0.07	0.07	0.07
Construction Worker Commute	0.01	0.25	0.27	0.32	0.42	0.45	0.43	0.43	0.51	0.58	0.68	0.65	0.73	0.74	0.78	0.80	0.95	1.04	0.97	1.05	1.06	1.13	1.12	1.19	1.19	1.22	1.22	1.24	1.08	1.05
Offsite Total (lbs/day)	**0.26**	**0.64**	**1.12**	**1.34**	**2.38**	**2.40**	**2.38**	**3.21**	**3.84**	**3.91**	**4.89**	**5.69**	**6.88**	**7.23**	**7.21**	**7.15**	**6.96**	**6.06**	**4.96**	**5.03**	**4.80**	**4.87**	**2.90**	**2.47**	**2.47**	**2.50**	**2.50**	**1.53**	**1.37**	**1.34**
	NOx Emissions (lbs/month)																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.00	0.00	0.00	3.68	3.68	3.68	3.24	3.24	3.24	3.24	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	3.84	3.84	3.84	3.84	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Material Hauling Trucks																														
Directly to HBEP	1.65	2.58	5.68	5.68	11.87	11.87	11.94	17.45	21.12	21.12	26.63	32.14	39.49	41.69	41.32	40.77	38.57	31.96	25.27	25.27	23.63	23.63	11.49	8.21	8.21	8.21	8.21	1.64	1.64	1.64
Directly to Alamitos	2.48	3.87	8.52	8.52	17.81	17.81	17.91	26.17	31.68	31.68	39.95	48.21	59.23	62.53	61.98	61.16	57.85	47.93	37.91	37.91	35.45	35.45	17.23	12.31	12.31	12.31	12.31	2.46	2.46	2.46
To HBEP from Alamitos	1.61	2.52	5.54	5.54	11.58	11.58	11.64	17.01	20.59	20.59	25.96	31.34	38.50	40.65	40.29	39.75	37.60	31.16	24.64	24.64	23.04	23.04	11.20	8.00	8.00	8.00	8.00	1.60	1.60	1.60
Construction Worker Commute	0.30	5.67	6.12	7.31	9.70	10.30	9.95	9.95	11.73	13.36	15.68	14.86	16.77	17.04	17.86	18.41	21.82	24.00	22.38	24.12	24.49	25.98	25.73	27.35	27.35	28.09	28.09	28.59	24.86	24.24
Offsite Total (lbs/month)	**6.04**	**14.64**	**25.85**	**30.72**	**54.63**	**55.23**	**54.68**	**73.83**	**88.36**	**90.00**	**112.55**	**130.87**	**158.31**	**166.24**	**165.78**	**164.41**	**160.16**	**139.37**	**114.04**	**115.78**	**110.45**	**111.94**	**66.61**	**56.82**	**56.82**	**57.57**	**57.57**	**35.25**	**31.53**	**30.90**
Offsite Total (tons/year)	**0.825**																													

Offsite Vehicle PM_{10} Emissions from Block 1 Construction

	PM_{10} Emissions (lbs/day) [a]																														
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.000	0.000	0.000	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Material Hauling Trucks																														
Directly to HBEP	0.008	0.012	0.026	0.026	0.054	0.054	0.060	0.087	0.105	0.105	0.133	0.160	0.197	0.208	0.206	0.204	0.193	0.160	0.137	0.137	0.129	0.129	0.062	0.045	0.045	0.045	0.045	0.009	0.009	0.009
Directly to Alamitos	0.011	0.018	0.039	0.039	0.082	0.082	0.089	0.131	0.158	0.158	0.199	0.241	0.296	0.312	0.310	0.305	0.289	0.239	0.206	0.206	0.193	0.193	0.094	0.067	0.067	0.067	0.067	0.013	0.013	0.013
To HBEP from Alamitos	0.007	0.012	0.025	0.025	0.053	0.053	0.058	0.085	0.103	0.103	0.130	0.156	0.192	0.203	0.201	0.199	0.188	0.156	0.134	0.134	0.125	0.125	0.061	0.044	0.044	0.044	0.044	0.009	0.009	0.009
Construction Worker Commute	0.032	0.603	0.650	0.777	1.031	1.094	1.158	1.158	1.365	1.555	1.825	1.730	1.952	1.984	2.079	2.142	2.539	2.793	2.856	3.078	3.126	3.316	3.285	3.491	3.491	3.586	3.586	3.650	3.174	3.094
Offsite Total (lbs/day)	**0.058**	**0.644**	**0.741**	**0.882**	**1.234**	**1.298**	**1.379**	**1.475**	**1.745**	**1.935**	**2.305**	**2.306**	**2.655**	**2.725**	**2.814**	**2.868**	**3.226**	**3.366**	**3.351**	**3.574**	**3.590**	**3.781**	**3.506**	**3.650**	**3.650**	**3.746**	**3.746**	**3.685**	**3.209**	**3.130**
	PM_{10} Emissions (lbs/month) [a]																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.000	0.000	0.000	0.332	0.332	0.332	0.317	0.317	0.317	0.317	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.406	0.406	0.406	0.406	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102
Material Hauling Trucks																														
Directly to HBEP	0.174	0.272	0.598	0.598	1.251	1.251	1.371	2.004	2.426	2.426	3.058	3.691	4.535	4.788	4.746	4.683	4.429	3.670	3.161	3.161	2.956	2.956	1.437	1.026	1.026	1.026	1.026	0.205	0.205	0.205
Directly to Alamitos	0.261	0.408	0.898	0.898	1.877	1.877	2.057	3.006	3.638	3.638	4.588	5.537	6.802	7.182	7.119	7.024	6.644	5.505	4.741	4.741	4.433	4.433	2.155	1.539	1.539	1.539	1.539	0.308	0.308	0.308
To HBEP from Alamitos	0.170	0.265	0.583	0.583	1.220	1.220	1.337	1.954	2.365	2.365	2.982	3.599	4.422	4.668	4.627	4.566	4.319	3.578	3.082	3.082	2.882	2.882	1.401	1.001	1.001	1.001	1.001	0.200	0.200	0.200
Construction Worker Commute	0.729	13.858	14.952	17.870	23.705	25.164	26.643	26.643	31.387	35.767	41.971	39.781	44.891	45.621	47.811	49.270	58.395	64.234	65.694	70.803	71.898	76.278	75.548	80.293	80.293	82.482	82.482	83.942	72.993	71.168
Offsite Total (lbs/month)	**1.334**	**14.804**	**17.032**	**20.281**	**28.385**	**29.844**	**31.724**	**33.922**	**40.133**	**44.513**	**53.021**	**53.031**	**61.072**	**62.682**	**64.725**	**65.965**	**74.209**	**77.410**	**77.084**	**82.193**	**82.575**	**86.955**	**80.642**	**83.960**	**83.960**	**86.150**	**86.150**	**84.757**	**73.808**	**71.983**
Offsite Total (tons/year)	**0.493**																													

Notes:
[a] PM_{10} Emissions include emissions from exhaust and paved roads.

Offsite Vehicle $PM_{2.5}$ Emissions from Block 1 Construction

	$PM_{2.5}$ Emissions (lbs/day) [a]																														
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.000	0.000	0.000	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Material Hauling Trucks																														
Directly to HBEP	0.004	0.006	0.013	0.013	0.027	0.027	0.029	0.042	0.051	0.051	0.064	0.077	0.095	0.100	0.099	0.098	0.093	0.077	0.065	0.065	0.060	0.060	0.029	0.021	0.021	0.021	0.021	0.004	0.004	0.004
Directly to Alamitos	0.006	0.009	0.019	0.019	0.040	0.040	0.043	0.063	0.076	0.076	0.096	0.116	0.143	0.151	0.149	0.147	0.139	0.115	0.097	0.097	0.091	0.091	0.044	0.031	0.031	0.031	0.031	0.006	0.006	0.006
To HBEP from Alamitos	0.004	0.006	0.013	0.013	0.026	0.026	0.028	0.041	0.050	0.050	0.062	0.075	0.093	0.098	0.097	0.096	0.091	0.075	0.063	0.063	0.059	0.059	0.029	0.020	0.020	0.020	0.020	0.004	0.004	0.004
Construction Worker Commute	0.009	0.169	0.182	0.217	0.288	0.306	0.324	0.324	0.381	0.435	0.510	0.483	0.545	0.554	0.581	0.599	0.709	0.780	0.798	0.860	0.874	0.927	0.918	0.976	0.976	1.002	1.002	1.020	0.887	0.865
Offsite Total (lbs/day)	**0.022**	**0.189**	**0.227**	**0.270**	**0.389**	**0.407**	**0.430**	**0.477**	**0.565**	**0.618**	**0.742**	**0.761**	**0.885**	**0.912**	**0.936**	**0.949**	**1.041**	**1.057**	**1.031**	**1.093**	**1.092**	**1.145**	**1.022**	**1.050**	**1.050**	**1.077**	**1.077**	**1.037**	**0.904**	**0.881**
	$PM_{2.5}$ Emissions (lbs/month) [a]																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.000	0.000	0.000	0.172	0.172	0.172	0.159	0.159	0.159	0.159	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.196	0.196	0.196	0.196	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049
Material Hauling Trucks																														
Directly to HBEP	0.086	0.135	0.296	0.296	0.620	0.620	0.661	0.966	1.169	1.169	1.474	1.779	2.186	2.308	2.287	2.257	2.135	1.769	1.484	1.484	1.388	1.388	0.675	0.482	0.482	0.482	0.482	0.096	0.096	0.096
Directly to Alamitos	0.129	0.202	0.444	0.444	0.929	0.929	0.991	1.449	1.754	1.754	2.211	2.669	3.279	3.462	3.431	3.385	3.202	2.653	2.227	2.227	2.082	2.082	1.012	0.723	0.723	0.723	0.723	0.145	0.145	0.145
To HBEP from Alamitos	0.084	0.131	0.289	0.289	0.604	0.604	0.644	0.942	1.140	1.140	1.437	1.735	2.131	2.250	2.230	2.200	2.082	1.725	1.447	1.447	1.353	1.353	0.658	0.470	0.470	0.470	0.470	0.094	0.094	0.094
Construction Worker Commute	0.204	3.876	4.182	4.997	6.629	7.037	7.445	7.445	8.771	9.995	11.729	11.117	12.545	12.749	13.361	13.768	16.318	17.950	18.358	19.786	20.092	21.316	21.112	22.437	22.437	23.049	23.049	23.457	20.398	19.888
Offsite Total (lbs/month)	**0.504**	**4.344**	**5.211**	**6.199**	**8.954**	**9.362**	**9.900**	**10.960**	**12.993**	**14.216**	**17.063**	**17.511**	**20.352**	**20.980**	**21.521**	**21.823**	**23.949**	**24.309**	**23.712**	**25.140**	**25.111**	**26.335**	**23.505**	**24.161**	**24.161**	**24.773**	**24.773**	**23.841**	**20.782**	**20.272**
Offsite Total (tons/year)	**0.147**																													

Notes:
[a] $PM_{2.5}$ Emissions include emissions from exhaust and paved roads.

Offsite Vehicle CO_2 Emissions from Block 1 Construction

	CO_2 Emissions (metric tons/day)																														
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.000	0.000	0.000	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Material Hauling Trucks																														
Directly to HBEP	0.010	0.016	0.036	0.036	0.075	0.075	0.085	0.125	0.151	0.151	0.190	0.230	0.282	0.298	0.295	0.291	0.276	0.228	0.202	0.202	0.189	0.189	0.092	0.066	0.066	0.066	0.066	0.013	0.013	0.013
Directly to Alamitos	0.016	0.025	0.054	0.054	0.113	0.113	0.128	0.187	0.226	0.226	0.285	0.345	0.423	0.447	0.443	0.437	0.413	0.343	0.303	0.303	0.283	0.283	0.138	0.098	0.098	0.098	0.098	0.020	0.020	0.020
To HBEP from Alamitos	0.010	0.016	0.035	0.035	0.074	0.074	0.083	0.122	0.147	0.147	0.186	0.224	0.275	0.290	0.288	0.284	0.269	0.223	0.197	0.197	0.184	0.184	0.090	0.064	0.064	0.064	0.064	0.013	0.013	0.013
Construction Worker Commute	0.014	0.264	0.285	0.340	0.451	0.479	0.507	0.507	0.597	0.680	0.798	0.757	0.854	0.868	0.909	0.937	1.110	1.222	1.249	1.346	1.367	1.451	1.437	1.527	1.527	1.569	1.569	1.596	1.388	1.353
Offsite Total (metric tons/day)	**0.050**	**0.321**	**0.410**	**0.485**	**0.733**	**0.761**	**0.823**	**0.959**	**1.141**	**1.224**	**1.485**	**1.581**	**1.860**	**1.929**	**1.961**	**1.975**	**2.094**	**2.041**	**1.978**	**2.075**	**2.050**	**2.133**	**1.762**	**1.761**	**1.761**	**1.803**	**1.803**	**1.648**	**1.440**	**1.405**
	CO_2 Emissions (metric tons/month)																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.000	0.000	0.000	0.447	0.447	0.447	0.447	0.447	0.447	0.447	0.596	0.596	0.596	0.596	0.596	0.596	0.596	0.596	0.596	0.596	0.596	0.596	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149
Material Hauling Trucks																														
Directly to HBEP	0.241	0.377	0.830	0.830	1.736	1.736	1.962	2.868	3.471	3.471	4.377	5.283	6.490	6.852	6.792	6.701	6.339	5.252	4.649	4.649	4.347	4.347	2.113	1.509	1.509	1.509	1.509	0.302	0.302	0.302
Directly to Alamitos	0.362	0.566	1.245	1.245	2.604	2.604	2.943	4.302	5.207	5.207	6.566	7.924	9.735	10.278	10.188	10.052	9.509	7.879	6.973	6.973	6.520	6.520	3.170	2.264	2.264	2.264	2.264	0.453	0.453	0.453
To HBEP from Alamitos	0.235	0.368	0.809	0.809	1.692	1.692	1.913	2.796	3.385	3.385	4.268	5.151	6.328	6.681	6.622	6.534	6.181	5.121	4.532	4.532	4.238	4.238	2.060	1.472	1.472	1.472	1.472	0.294	0.294	0.294
Construction Worker Commute	0.319	6.066	6.545	7.822	10.376	11.015	11.653	11.653	13.728	15.644	18.358	17.400	19.635	19.954	20.912	21.550	25.541	28.095	28.734	30.969	31.448	33.363	33.044	35.119	35.119	36.077	36.077	36.715	31.926	31.128
Offsite Total (metric tons/month)	**1.16**	**7.38**	**9.43**	**11.15**	**16.85**	**17.49**	**18.92**	**22.07**	**26.24**	**28.15**	**34.16**	**36.35**	**42.78**	**44.36**	**45.11**	**45.43**	**48.17**	**46.94**	**45.48**	**47.72**	**47.15**	**49.06**	**40.54**	**40.51**	**40.51**	**41.47**	**41.47**	**37.91**	**33.12**	**32.33**
Offsite Total (metric tons/year)	**543.27**																													

Table 5.1A.13R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle N_2O Emissions from Block 1 Construction

	N_2O Emissions (metric tons/day)																												
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.00000000	0.00000000	0.00000000	0.00000005	0.00000005	0.00000005	0.00000005	0.00000005	0.00000005	0.00000005	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002
Material Hauling Trucks																														
Directly to HBEP	0.00000003	0.00000005	0.00000011	0.00000011	0.00000022	0.00000022	0.00000025	0.00000036	0.00000044	0.00000044	0.00000056	0.00000067	0.00000083	0.00000087	0.00000086	0.00000085	0.00000081	0.00000067	0.00000059	0.00000059	0.00000055	0.00000055	0.00000027	0.00000019	0.00000019	0.00000019	0.00000019	0.00000004	0.00000004	0.00000004
Directly to Alamitos	0.00000005	0.00000007	0.00000016	0.00000016	0.00000033	0.00000033	0.00000037	0.00000055	0.00000066	0.00000066	0.00000084	0.00000101	0.00000124	0.00000131	0.00000130	0.00000128	0.00000121	0.00000100	0.00000089	0.00000089	0.00000083	0.00000083	0.00000040	0.00000029	0.00000029	0.00000029	0.00000029	0.00000006	0.00000006	0.00000006
To HBEP from Alamitos	0.00000003	0.00000005	0.00000010	0.00000010	0.00000022	0.00000022	0.00000024	0.00000036	0.00000043	0.00000043	0.00000054	0.00000066	0.00000080	0.00000085	0.00000084	0.00000083	0.00000079	0.00000065	0.00000058	0.00000058	0.00000054	0.00000054	0.00000026	0.00000019	0.00000019	0.00000019	0.00000019	0.00000004	0.00000004	0.00000004
Construction Worker Commute	0.00000016	0.00000295	0.00000319	0.00000381	0.00000505	0.00000537	0.00000568	0.00000568	0.00000669	0.00000762	0.00000894	0.00000848	0.00000956	0.00000972	0.00001019	0.00001050	0.00001244	0.00001369	0.00001400	0.00001509	0.00001532	0.00001625	0.00001610	0.00001711	0.00001711	0.00001757	0.00001757	0.00001788	0.00001555	0.00001516
Offsite Total (metric tons/day)	**0.0000003**	**0.0000031**	**0.0000036**	**0.0000042**	**0.0000059**	**0.0000062**	**0.0000066**	**0.0000070**	**0.0000083**	**0.0000092**	**0.0000109**	**0.0000109**	**0.0000125**	**0.0000128**	**0.0000133**	**0.0000135**	**0.0000153**	**0.0000161**	**0.0000161**	**0.0000172**	**0.0000173**	**0.0000182**	**0.0000170**	**0.0000178**	**0.0000178**	**0.0000183**	**0.0000183**	**0.0000180**	**0.0000157**	**0.0000153**

	N_2O Emissions (metric tons/month)																												
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.0000000	0.0000000	0.0000000	0.0000012	0.0000012	0.0000012	0.0000012	0.0000012	0.0000012	0.0000012	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004
Material Hauling Trucks																														
Directly to HBEP	0.0000007	0.0000011	0.0000024	0.0000024	0.0000051	0.0000051	0.0000057	0.0000084	0.0000102	0.0000102	0.0000128	0.0000155	0.0000190	0.0000200	0.0000199	0.0000196	0.0000185	0.0000154	0.0000136	0.0000136	0.0000127	0.0000127	0.0000062	0.0000044	0.0000044	0.0000044	0.0000044	0.0000009	0.0000009	0.0000009
Directly to Alamitos	0.0000011	0.0000017	0.0000036	0.0000036	0.0000076	0.0000076	0.0000086	0.0000126	0.0000152	0.0000152	0.0000192	0.0000232	0.0000285	0.0000301	0.0000298	0.0000294	0.0000278	0.0000231	0.0000204	0.0000204	0.0000191	0.0000191	0.0000093	0.0000066	0.0000066	0.0000066	0.0000066	0.0000013	0.0000013	0.0000013
To HBEP from Alamitos	0.0000007	0.0000011	0.0000024	0.0000024	0.0000050	0.0000050	0.0000056	0.0000082	0.0000099	0.0000099	0.0000125	0.0000151	0.0000185	0.0000195	0.0000194	0.0000191	0.0000181	0.0000150	0.0000133	0.0000133	0.0000124	0.0000124	0.0000060	0.0000043	0.0000043	0.0000043	0.0000043	0.0000009	0.0000009	0.0000009
Construction Worker Commute	0.0000036	0.0000680	0.0000733	0.0000876	0.0001163	0.0001234	0.0001306	0.0001306	0.0001538	0.0001753	0.0002057	0.0001949	0.0002200	0.0002236	0.0002343	0.0002414	0.0002862	0.0003148	0.0003219	0.0003470	0.0003523	0.0003738	0.0003702	0.0003935	0.0003935	0.0004042	0.0004042	0.0004114	0.0003577	0.0003488
Offsite Total (metric tons/month)	**0.000006**	**0.000072**	**0.000082**	**0.000097**	**0.000135**	**0.000142**	**0.000152**	**0.000161**	**0.000190**	**0.000212**	**0.000252**	**0.000250**	**0.000288**	**0.000295**	**0.000305**	**0.000311**	**0.000352**	**0.000370**	**0.000371**	**0.000396**	**0.000398**	**0.000420**	**0.000392**	**0.000409**	**0.000409**	**0.000420**	**0.000420**	**0.000415**	**0.000361**	**0.000352**
Offsite Total (metric tons/year)	**0.0048**																													

Offsite Vehicle CH_4 Emissions from Block 1 Construction

	CH_4 Emissions (metric tons/day)																												
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.00000000	0.00000000	0.00000000	0.00000006	0.00000006	0.00000006	0.00000006	0.00000006	0.00000006	0.00000006	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002
Material Hauling Trucks																														
Directly to HBEP	0.00000003	0.00000005	0.00000011	0.00000011	0.00000023	0.00000023	0.00000027	0.00000039	0.00000047	0.00000047	0.00000059	0.00000071	0.00000088	0.00000093	0.00000092	0.00000091	0.00000086	0.00000071	0.00000063	0.00000063	0.00000059	0.00000059	0.00000029	0.00000020	0.00000020	0.00000020	0.00000020	0.00000004	0.00000004	0.00000004
Directly to Alamitos	0.00000005	0.00000008	0.00000017	0.00000017	0.00000035	0.00000035	0.00000040	0.00000058	0.00000070	0.00000070	0.00000089	0.00000107	0.00000132	0.00000139	0.00000138	0.00000136	0.00000129	0.00000106	0.00000094	0.00000094	0.00000088	0.00000088	0.00000043	0.00000031	0.00000031	0.00000031	0.00000031	0.00000006	0.00000006	0.00000006
To HBEP from Alamitos	0.00000003	0.00000005	0.00000011	0.00000011	0.00000023	0.00000023	0.00000026	0.00000038	0.00000046	0.00000046	0.00000058	0.00000070	0.00000086	0.00000090	0.00000090	0.00000088	0.00000084	0.00000069	0.00000061	0.00000061	0.00000057	0.00000057	0.00000028	0.00000020	0.00000020	0.00000020	0.00000020	0.00000004	0.00000004	0.00000004
Construction Worker Commute	0.00000075	0.00001420	0.00001532	0.00001831	0.00002429	0.00002578	0.00002728	0.00002728	0.00003214	0.00003662	0.00004297	0.00004073	0.00004596	0.00004671	0.00004895	0.00005045	0.00005979	0.00006577	0.00006726	0.00007249	0.00007361	0.00007810	0.00007735	0.00008221	0.00008221	0.00008445	0.00008445	0.00008595	0.00007474	0.00007287
Offsite Total (metric tons/day)	**0.0000009**	**0.0000144**	**0.0000157**	**0.0000188**	**0.0000252**	**0.0000267**	**0.0000283**	**0.0000287**	**0.0000338**	**0.0000383**	**0.0000451**	**0.0000433**	**0.0000491**	**0.0000500**	**0.0000522**	**0.0000537**	**0.0000628**	**0.0000683**	**0.0000695**	**0.0000748**	**0.0000757**	**0.0000802**	**0.0000784**	**0.0000829**	**0.0000829**	**0.0000852**	**0.0000852**	**0.0000861**	**0.0000749**	**0.0000730**

	CH_4 Emissions (metric tons/month)																												
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.0000000	0.0000000	0.0000000	0.0000013	0.0000013	0.0000013	0.0000013	0.0000013	0.0000013	0.0000013	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004
Material Hauling Trucks																														
Directly to HBEP	0.0000008	0.0000012	0.0000026	0.0000026	0.0000054	0.0000054	0.0000061	0.0000089	0.0000108	0.0000108	0.0000136	0.0000164	0.0000202	0.0000213	0.0000211	0.0000208	0.0000197	0.0000163	0.0000145	0.0000145	0.0000135	0.0000135	0.0000066	0.0000047	0.0000047	0.0000047	0.0000047	0.0000009	0.0000009	0.0000009
Directly to Alamitos	0.0000011	0.0000018	0.0000039	0.0000039	0.0000081	0.0000081	0.0000091	0.0000134	0.0000162	0.0000162	0.0000204	0.0000246	0.0000303	0.0000320	0.0000317	0.0000312	0.0000296	0.0000245	0.0000217	0.0000217	0.0000203	0.0000203	0.0000099	0.0000070	0.0000070	0.0000070	0.0000070	0.0000014	0.0000014	0.0000014
To HBEP from Alamitos	0.0000007	0.0000011	0.0000025	0.0000025	0.0000053	0.0000053	0.0000059	0.0000087	0.0000105	0.0000105	0.0000133	0.0000160	0.0000197	0.0000208	0.0000206	0.0000203	0.0000192	0.0000159	0.0000141	0.0000141	0.0000132	0.0000132	0.0000064	0.0000046	0.0000046	0.0000046	0.0000046	0.0000009	0.0000009	0.0000009
Construction Worker Commute	0.0000172	0.0003266	0.0003524	0.0004211	0.0005587	0.0005930	0.0006274	0.0006274	0.0007391	0.0008423	0.0009884	0.0009368	0.0010571	0.0010743	0.0011259	0.0011603	0.0013751	0.0015127	0.0015470	0.0016674	0.0016931	0.0017963	0.0017791	0.0018908	0.0018908	0.0019424	0.0019424	0.0019768	0.0017189	0.0016760
Offsite Total (metric tons/month)	**0.00002**	**0.00033**	**0.00036**	**0.00043**	**0.00058**	**0.00061**	**0.00065**	**0.00066**	**0.00078**	**0.00088**	**0.00104**	**0.00100**	**0.00113**	**0.00115**	**0.00120**	**0.00123**	**0.00145**	**0.00157**	**0.00160**	**0.00172**	**0.00174**	**0.00184**	**0.00180**	**0.00191**	**0.00191**	**0.00196**	**0.00196**	**0.00198**	**0.00172**	**0.00168**
Offsite Total (metric tons/year)	**0.0218**																													

Offsite Construction Vehicle Activity for Block 1 Construction

Vehicle Type	**Roundtrip Miles/Day** [a]	**Working Days per Month** [b]
Offsite Delivery Trucks	14.6	23
Material Hauling Trucks	40.0	23
Directly to HBEP	40.0	23
Directly to Alamitos	40.0	23
To HBEP from Alamitos	26.0	23
Construction Worker Commute	21.6	23

Notes:

[a] Roundtrip miles/day taken as the CalEEMod defaults for the South Coast Air Basin except for "To HBEP from Alamitos", which was measured using Google Earth.

[b] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Table 5.1A.14R Equations Used to Calculate Criteria Pollutant and GHG Emissions

Equations Used to Calculate Emissions from Block 1 Construction

Emission Source	Pollutant(s)	Equation	Variables
Construction Equipment Exhaust	CO, VOC, NOx, SOx, PM_{10}, and $PM_{2.5}$	$E_m = EF * N * Hp * L * H / 453.6$	E_m = Emissions (lbs/month)
			EF = Emission factor (g/bhp-hr)
			N = Number of pieces of equipment
			Hp = Average horsepower
			L = Average load factor
			H = Hours per month
			453.6 = Conversion from g to lbs
		$E_d = E_m / D$	E_d = Emissions (lbs/day)
			E_m = Emissions (lbs/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons
	CO_2	$E_m = N * FC * EF * H * 0.001$	E_m = Emissions (metric tons/month)
			N = Number of pieces of equipment
			FC = Fuel consumption (gallons/hour)
			EF = Emission factor (kg/gallon)
			H = Hours per month
			0.001 = Conversion from kg to metric tons
		$E_d = E_m / D$	E_d = Emissions (metric tons/day)
			E_m = Emissions (metric tons/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
	CH_4 and N_2O	$E_m = N * FC * EF * H / 1{,}000 * 0.001$	E_m = Emissions (metric tons/month)
			N = Number of pieces of equipment
			FC = Fuel consumption (gallons/hour)
			EF = Emission factor (g/gallon)
			H = Hours per month
			1,000 = Conversion from g to kg
			0.001 = Conversion from kg to metric tons
		$E_d = E_m / D$	E_d = Emissions (metric tons/day)
			E_m = Emissions (metric tons/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
Onsite and Offsite Vehicle Exhaust and Paved and Unpaved Road Fugitive PM_{10} and $PM_{2.5}$	CO, VOC, NOx, SOx, PM_{10}, and $PM_{2.5}$	$E_d = N * VMT * EF / 453.6$	E_d = Emissions (lbs/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			EF = EMFAC2007 emission factor (g/mile). Paved and unpaved road fugitive PM_{10} and $PM_{2.5}$ emission factors calculated per Sections 13.2.1 and 13.2.2 of AP-42, respectively.
			453.6 = Conversion from g to lbs
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons

Table 5.1A.14R Equations Used to Calculate Criteria Pollutant and GHG Emissions

Equations Used to Calculate Emissions from Block 1 Construction

Emission Source	Pollutant(s)	Equation	Variables
Onsite and Offsite Vehicle Exhaust	CO_2	$E_d = N * VMT / FE * EF * 0.001$	E_d = Emissions (metric tons/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			FE = Fuel economy (mpg)
			EF = Emission factor (kg/gallon)
			0.001 = Conversion from kg to metric tons
		$E_m = E_d * D$	E_m = Emissions (metric tons/month)
			E_d = Emissions (metric tons/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
	CH_4 and N_2O	$E_d = N * VMT * EF / 1,000 * 0.001$	E_d = Emissions (metric tons/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			EF = Emission factor (g/mile)
			1,000 = Conversion from g to kg
			0.001 = Conversion from kg to metric tons
		$E_m = E_d * D$	E_m = Emissions (metric tons/month)
			E_d = Emissions (metric tons/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
Onsite and Offsite Fugitive PM_{10} and $PM_{2.5}$ from Grading	PM_{10} and $PM_{2.5}$	$E_d = EF x A / W x 43,560 / 5,280 / D$	E_d = Emissions (lbs/day)
			EF = Fugitive PM_{10} and $PM_{2.5}$ emission factors (lbs/mile), calculated per Section 4.3 of Appendix A of the CalEEMod User's Guide.
			A = Site disturbed (acres/month)
			W = Grading equipment blade width (ft)
			43,560 = Conversion factor from square feet to acres
			5,280 = Conversion factor from feet to miles
			D = Number of construction days per month
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2,000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons
Onsite Fugitive PM_{10} and $PM_{2.5}$ from Bulldozing	PM_{10} and $PM_{2.5}$	$E_d = EF x H / D$	E_d = Emissions (lbs/day)
			EF = Fugitive PM_{10} and $PM_{2.5}$ emission factors (lbs/mile), calculated per Section 4.3 of Appendix A of the CalEEMod User's Guide.
			H = Hours per month for all bulldozers
			D = Number of construction days per month
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2,000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons

Table 5.1A.15R Number of Onsite Construction Equipment and Motor Vehicles

Number of Onsite Equipment for Block 1 Construction

Onsite Equipment	Number per Month [a]																														
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Water Truck	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Excavator	2	2	2	2	2	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grader	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Cranes [b]	0	0	0	2	2	2	4	4	5	5	4	4	5	5	4	4	4	4	2	2	2	2	2	2	0	0	0	0	0	0
Tractor/Loader/Backhoe [c]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
Rubber Tired Loader [d]	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
Crawler Tractor [e]	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressor	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1
Forklift	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1
Roller [f]	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Other General Industrial Equipment [g]	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

[a] Equipment counts taken from 'HBEP Equipment Usage 1.21.13.xls'.

[b] Numbers presented for Cranes includes the equipment counts for the 75 Ton Hydraulic Crane, the 35 Ton Hydraulic Crane, the Heavy Lift Lattice Boom Main Crane, the Heavy Lift Lattice Boom Tail Crane, and the Heavy Lift Gantry Crane.

[c] Numbers presented for Tractor/Loader/Backhoe includes the equipment counts for the Backhoe.

[d] Numbers presented for Rubber Tired Loader includes the equipment counts for the Front End Loader.

[e] Numbers presented for Crawler Tractor includes the equipment counts for the Dozer

[f] Numbers presented for Roller includes the equipment counts for the Compactor.

[g] Numbers presented for Other General Industrial Equipment includes the equipment counts for the Pile Driver.

Number of Onsite Motor Vehicles for Block 1 Construction

Vehicle Type	Number per Month [a]																														
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Onsite Pick-up Truck	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Onsite Stake Truck	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Onsite Dump Truck	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0

Notes:

[a] Vehicle counts taken from 'HBEP Equipment Usage 1.21.13.xls'.

Huntington Beach Energy Project
Construction Emission Estimates - Block 1 Construction
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Table 5.1A.16R Construction Equipment Exhaust Criteria Pollutant Emission Factors

Construction Equipment Emission Factors for Block 1 Construction

Equipment [a]	Percent Usage [b]	Hours per Month [c]	Horsepower [d]	Load Factor [d]	Emission Factors (g/bhp-hr) [e]												Fuel Consumption (gallons/hour) [f]
					CO	VOC	NO_X 2016	NO_X 2017	NO_X 2018	SO_X	PM_{10} 2016	PM_{10} 2017	PM_{10} 2018	$PM_{2.5}$ 2016	$PM_{2.5}$ 2017	$PM_{2.5}$ 2018	
Water Truck [g]	50%	115	381	0.57	1.209	0.387	2.613	2.302	2.025	0.005	0.093	0.082	0.073	0.093	0.082	0.073	12.33
Excavator	85%	196	157	0.57	3.366	0.492	3.323	2.928	2.567	0.006	0.179	0.155	0.133	0.179	0.155	0.133	5.11
Grader	80%	184	162	0.61	3.352	0.557	3.955	3.568	3.211	0.006	0.218	0.196	0.176	0.218	0.196	0.176	5.65
Cranes	65%	150	208	0.43	1.334	0.443	3.818	3.462	3.125	0.006	0.131	0.118	0.107	0.131	0.118	0.107	5.08
Tractor/Loader/Backhoe	55%	127	75	0.55	3.800	0.576	3.874	3.533	3.226	0.006	0.278	0.237	0.201	0.278	0.237	0.201	2.36
Rubber Tired Loader	55%	127	87	0.54	3.919	0.745	4.657	4.302	3.975	0.006	0.373	0.333	0.296	0.373	0.333	0.296	2.69
Crawler Tractor	80%	184	82	0.64	4.092	0.926	5.508	5.156	4.826	0.006	0.460	0.422	0.386	0.460	0.422	0.386	3.01
Air Compressor	80%	184	78	0.48	3.804	0.744	4.790	4.412	4.050	0.006	0.397	0.350	0.304	0.397	0.350	0.304	2.15
Forklift	75%	173	149	0.30	3.362	0.456	3.062	2.696	2.338	0.006	0.166	0.145	0.124	0.166	0.145	0.124	2.55
Roller	60%	138	84	0.56	3.825	0.766	4.925	4.576	4.249	0.006	0.400	0.364	0.328	0.400	0.364	0.328	2.70
Other General Industrial Equipment	70%	161	150	0.51	3.355	0.580	4.126	3.686	3.277	0.006	0.231	0.204	0.178	0.231	0.204	0.178	4.37

Notes:

[a] Assumed all equipment is fired with diesel fuel, per Section 4.2 of Appendix A of the CalEEMod User's Guide.

[b] Percent Usage assumed typical of power plant construction.

[c] Hours per month calculated based on the following schedule, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Work hours per day: 10

Work days per month: 23

[d] Construction equipment horsepower and load factor taken from Table 3.3 of Appendix D of the CalEEMod User's Guide.

[e] Construction equipment emission factors taken from Table 3.4 of Appendix D of the CalEEMod User's Guide. The emission factors for the year 2016 were used for the construction equipment exhaust emission calculations for CO, VOC, and SOx. The emission factors for year 2016, 2017 and 2018 were used for NOx, PM10, and PM2.5.

[f] Fuel consumption based on consumption in the OFFROAD2007 model for the SCAB in the year 2016; value estimated by dividing the reported consumption (gallons/day) by the reported activity (hours/day).

[g] Horsepower, load factor, and emission factors for Off-Highway Trucks were assumed representative of Water Trucks.

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Construction Emission Estimates - Block 1 Construction
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Table 5.1A.17R Onsite and Offsite Motor Vehicle Criteria Pollutant Emission Factors

Vehicle Emission Factors for Block 1 Construction

Vehicle Type	Vehicle Class [a]	Exhaust Emission Factors (g/mile) [b]												Paved Road Emission Factors (g/mile) [c]		Fuel Economy (mpg) [b]
		CO	VOC	SO_X	NO_X 2016	NO_X 2017	NO_X 2018	PM_{10} 2016	PM_{10} 2017	PM_{10} 2018	$PM_{2.5}$ 2016	$PM_{2.5}$ 2017	$PM_{2.5}$ 2018	PM_{10}	$PM_{2.5}$	
Onsite Pick-up Truck	Light-duty Truck	3.508	0.235	0.011	0.327	0.301	0.278	0.123	0.124	0.126	0.101	0.103	0.104	N/A	N/A	7.440
Onsite Stake Truck	Heavy-duty Diesel	10.786	6.276	0.037	18.687	16.645	14.934	1.007	0.843	0.709	0.889	0.738	0.614	N/A	N/A	2.621
Onsite Dump Truck	Heavy-duty Diesel	10.786	6.276	0.037	18.687	16.645	14.934	1.007	0.843	0.709	0.889	0.738	0.614	N/A	N/A	2.621
Offsite Delivery Trucks	Heavy-duty Diesel	2.249	0.453	0.017	6.621	5.842	5.193	0.297	0.270	0.248	0.235	0.211	0.190	0.300	0.075	5.749
Material Hauling Trucks	Heavy/Medium-duty Diesel	1.719	0.290	0.016	5.090	4.528	4.046	0.236	0.220	0.206	0.191	0.176	0.163	0.300	0.075	6.224
Construction Worker Commute	Light-duty Auto/Truck	1.435	0.029	0.004	0.136	0.125	0.114	0.033	0.033	0.033	0.018	0.018	0.018	0.300	0.075	27.325

Notes:

[a] The vehicle classes are represented as follows:

Light-duty Truck: Assumed to be an average of LDT1, All and LDT2, All values.
Heavy-duty Diesel: Assumed to be 100% HHD DSL values, as confirmed in Section 4.5 of Appendix A of the CalEEMod User's Guide.
Heavy/Medium-duty Diesel: 50% HHD DSL and 50% MHD DSL values, per Section 4.5 of Appendix A of the CalEEMod User's Guide.
Light-duty Auto/Truck: 50% LDA, All; 25% LDT1, All; and 25% LDT2, All values, per Section 4.5 of Appendix A of the CalEEMod User's Guide.

[b] Exhaust emission factors and fuel economy from EMFAC2007 for the South Coast Air Basin, calendar year 2016 for CO, VOC, and SOx. Calendar year 2016, 2017 and 2018 were used for NOx, PM10, and PM2.5. A speed of 5 mph was assumed for onsite vehicles; a speed of 40 mph was assumed for offsite vehicles and worker commutes, which is consistent with the CalEEMod defaults. An average temperature of 68°F and humidity of 55% were used per Table B-1 of CT-EMFAC: A Computer Model to Estimate Transportation Project Emissions.

[c] Paved road emission factors calculated using CalEEMod methodology, as described below.

Derivation of Paved Road Emission Factors

Vehicles on Paved Roads

Parameter	PM_{10}	$PM_{2.5}$
Average Weight [a]	2.4	2.4
k [b]	1.0	0.25
sL [a]	0.1	0.1
Emission Factor (g/mile) [c]	0.300	0.075

Notes:

[a] Average Weight and sL taken as the default value from CalEEMod.

[b] k taken from Table 13.2.1-1 of Section 13.2.1 of AP-42.

[c] Emission factor calculated using Equation 1 from Section 13.2.1 of AP-42:

Emission Factor (g/mile) = k (g/mile) x [sL (g/m^2)]$^{0.91}$ x [Average Weight (tons)]$^{1.02}$

Huntington Beach Energy Project
Construction Emission Estimates - Block 1 Construction
April 2014

Table 5.1A.18R Onsite and Offsite Greenhouse Gas Emission Factors

Greenhouse Gas Emission Factors for Block 1 Construction

Fuel / Category Type	Emission Factor	Emission Factor Units	Emission Factor Source
CO_2 Emission Factors			
Gasoline	8.78	kg CO_2/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.1, May 2008 as updated through January 2012.
Diesel	10.21	kg CO_2/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.1, May 2008 as updated through January 2012.
N_2O Emission Factors			
Gasoline Passenger Car Model Year 2009 [a]	0.0036	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Gasoline Light-duty Truck Model Year 2009 [a]	0.0066	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Heavy-duty Truck Model Year 1960 - 2009 [a]	0.0048	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Off-road Vehicle	0.26	g N_2O/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.7, May 2008 as updated through January 2012.
CH_4 Emission Factors			
Gasoline Passenger Car Model Year 2009 [a]	0.0173	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Gasoline Light-duty Truck Model Year 2009 [a]	0.0163	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Heavy-duty Truck Model Year 1960 - 2009 [a]	0.0051	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Off-road Vehicle	0.58	g CH_4/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.7, May 2008 as updated through January 2012.

Notes:

[a] Model Year 2009 was the most recent year of emission factors available. As a result, it was assumed representative of vehicles used for this project.

Huntington Beach Energy Project
Construction Emission Estimates - Block 2 Construction
April 2014

Table 5.1A.19R Onsite Construction Equipment Exhaust Emissions

Construction Equipment CO Emissions from Block 2 Construction

	CO Emisisons (lbs/month)																											
Onsite Equipment	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Water Truck	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09
Excavator	129.67	259.34	259.34	259.34	259.34	259.34	129.67	129.67	129.67	129.67	129.67	129.67	129.67	129.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	134.09	268.17	268.17	134.09	134.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	134.09	134.09
Cranes	0.00	0.00	0.00	0.00	75.29	75.29	150.57	150.57	150.57	188.22	150.57	150.57	225.86	188.22	150.57	150.57	150.57	150.57	75.29	75.29	75.29	75.29	75.29	75.29	75.29	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.00	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30
Rubber Tired Loader	0.00	101.49	101.49	50.74	50.74	50.74	50.74	50.74	50.74	50.74	50.74	50.74	50.74	50.74	50.74	50.74	50.74	50.74	50.74	50.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	86.00	172.01	172.01	86.00	86.00	86.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	0.00	56.86	56.86	56.86	56.86	113.72	113.72	113.72	113.72	113.72	113.72	113.72	113.72	113.72	113.72	113.72	113.72	113.72	113.72	56.86	56.86	56.86	56.86	56.86	56.86	56.86	56.86	56.86
Forklift	0.00	114.40	114.40	114.40	114.40	114.40	114.40	114.40	114.40	114.40	114.40	114.40	114.40	114.40	114.40	114.40	114.40	114.40	114.40	57.20	57.20	57.20	57.20	57.20	57.20	57.20	57.20	57.20
Roller	54.02	108.05	108.05	54.02	54.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.02	54.02
Other General Industrial Equipment	0.00	91.04	91.04	91.04	91.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**467.88**	**1,278.76**	**1,278.76**	**953.90**	**1,029.19**	**806.89**	**666.50**	**666.50**	**666.50**	**704.15**	**666.50**	**666.50**	**741.79**	**704.15**	**536.83**	**536.83**	**536.83**	**536.83**	**461.54**	**347.48**	**296.74**	**296.74**	**296.74**	**296.74**	**296.74**	**221.45**	**409.56**	**409.56**
Onsite Total (lbs/day) [a]	**20.34**	**55.60**	**55.60**	**41.47**	**44.75**	**35.08**	**28.98**	**28.98**	**28.98**	**30.62**	**28.98**	**28.98**	**32.25**	**30.62**	**23.34**	**23.34**	**23.34**	**23.34**	**20.07**	**15.11**	**12.90**	**12.90**	**12.90**	**12.90**	**12.90**	**9.63**	**17.81**	**17.81**
Offsite Total (tons/year)	**5.06**																											

Construction Equipment VOC Emissions from Block 2 Construction

	VOC Emisisons (lbs/month)																											
Onsite Equipment	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Water Truck	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00
Excavator	16.08	32.17	32.17	32.17	32.17	32.17	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	19.44	38.88	38.88	19.44	19.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.44	19.44
Cranes	0.00	0.00	0.00	0.00	23.46	23.46	46.93	46.93	46.93	58.66	46.93	46.93	70.39	58.66	46.93	46.93	46.93	46.93	23.46	23.46	23.46	23.46	23.46	23.46	23.46	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.00	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49
Rubber Tired Loader	0.00	16.67	16.67	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	17.37	34.74	34.74	17.37	17.37	17.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	0.00	9.16	9.16	9.16	9.16	18.32	18.32	18.32	18.32	18.32	18.32	18.32	18.32	18.32	18.32	18.32	18.32	18.32	18.32	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16
Forklift	0.00	13.46	13.46	13.46	13.46	13.46	13.46	13.46	13.46	13.46	13.46	13.46	13.46	13.46	13.46	13.46	13.46	13.46	13.46	6.73	6.73	6.73	6.73	6.73	6.73	6.73	6.73	6.73
Roller	9.37	18.75	18.75	9.37	9.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.37	9.37
Other General Industrial Equipment	0.00	13.25	13.25	13.25	13.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**81.27**	**201.56**	**201.56**	**147.04**	**170.51**	**137.60**	**127.61**	**127.61**	**127.61**	**139.34**	**127.61**	**127.61**	**151.07**	**139.34**	**111.52**	**111.52**	**111.52**	**111.52**	**88.06**	**72.17**	**63.84**	**63.84**	**63.84**	**63.84**	**63.84**	**40.37**	**69.19**	**69.19**
Onsite Total (lbs/day) [a]	**3.53**	**8.76**	**8.76**	**6.39**	**7.41**	**5.98**	**5.55**	**5.55**	**5.55**	**6.06**	**5.55**	**5.55**	**6.57**	**6.06**	**4.85**	**4.85**	**4.85**	**4.85**	**3.83**	**3.14**	**2.78**	**2.78**	**2.78**	**2.78**	**2.78**	**1.76**	**3.01**	**3.01**
Offsite Total (tons/year)	**0.89**																											

Construction Equipment NOx Emissions from Block 2 Construction

	NOx Emissions (lbs/month)																											
Onsite Equipment	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Water Truck	111.49	111.49	111.49	111.49	111.49	111.49	111.49	111.49	111.49	111.49	97.95	97.95	97.95	97.95	97.95	97.95	97.95	97.95	97.95	97.95	97.95	97.95	85.95	85.95	85.95	85.95	85.95	85.95
Excavator	99.01	198.02	198.02	198.02	198.02	198.02	99.01	99.01	99.01	99.01	86.47	86.47	86.47	86.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	128.72	257.43	257.43	128.72	128.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	103.34	103.34
Cranes	0.00	0.00	0.00	0.00	184.24	184.24	368.48	368.48	368.48	460.60	330.98	330.98	496.47	413.73	330.98	330.98	330.98	330.98	165.49	165.49	165.49	165.49	147.80	147.80	147.80	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.00	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	33.95	33.95	33.95	33.95	33.95	33.95	33.95	33.95	33.95	33.95	33.95	33.95	31.16	31.16	31.16	31.16	31.16	31.16
Rubber Tired Loader	0.00	104.16	104.16	52.08	52.08	52.08	52.08	52.08	52.08	52.08	48.18	48.18	48.18	48.18	48.18	48.18	48.18	48.18	48.18	48.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	102.74	205.47	205.47	102.74	102.74	102.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	0.00	61.51	61.51	61.51	61.51	123.02	123.02	123.02	123.02	123.02	112.57	112.57	112.57	112.57	112.57	112.57	112.57	112.57	112.57	56.28	56.28	56.28	51.64	51.64	51.64	51.64	51.64	51.64
Forklift	0.00	79.49	79.49	79.49	79.49	79.49	79.49	79.49	79.49	79.49	69.56	69.56	69.56	69.56	69.56	69.56	69.56	69.56	69.56	34.78	34.78	34.78	30.29	30.29	30.29	30.29	30.29	30.29
Roller	60.81	121.62	121.62	60.81	60.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.38	52.38
Other General Industrial Equipment	0.00	88.98	88.98	88.98	88.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**502.76**	**1,265.28**	**1,265.28**	**920.94**	**1,105.18**	**888.18**	**870.67**	**870.67**	**870.67**	**962.79**	**779.65**	**779.65**	**945.14**	**862.40**	**693.18**	**693.18**	**693.18**	**693.18**	**527.69**	**436.63**	**388.45**	**388.45**	**346.84**	**346.84**	**346.84**	**199.04**	**354.76**	**354.76**
Onsite Total (lbs/day) [a]	**21.86**	**55.01**	**55.01**	**40.04**	**48.05**	**38.62**	**37.86**	**37.86**	**37.86**	**41.86**	**33.90**	**33.90**	**41.09**	**37.50**	**30.14**	**30.14**	**30.14**	**30.14**	**22.94**	**18.98**	**16.89**	**16.89**	**15.08**	**15.08**	**15.08**	**8.65**	**15.42**	**15.42**
Offsite Total (tons/year)	**5.76**																											

Table 5.1A.19R Onsite Construction Equipment Exhaust Emissions

Construction Equipment SOx Emissions from Block 2 Construction

	SOx Emissions (lbs/month)																											
Onsite Equipment	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Water Truck	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Excavator	0.23	0.46	0.46	0.46	0.46	0.46	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	0.24	0.48	0.48	0.24	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.24
Cranes	0.00	0.00	0.00	0.00	0.35	0.35	0.71	0.71	0.71	0.88	0.71	0.71	1.06	0.88	0.71	0.71	0.71	0.71	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.00	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Rubber Tired Loader	0.00	0.16	0.16	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	0.13	0.26	0.26	0.13	0.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	0.00	0.09	0.09	0.09	0.09	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Forklift	0.00	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Roller	0.09	0.17	0.17	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09
Other General Industrial Equipment	0.00	0.16	0.16	0.16	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**0.96**	**2.33**	**2.33**	**1.80**	**2.15**	**1.75**	**1.75**	**1.75**	**1.75**	**1.92**	**1.75**	**1.75**	**2.10**	**1.92**	**1.52**	**1.52**	**1.52**	**1.52**	**1.16**	**0.97**	**0.89**	**0.89**	**0.89**	**0.89**	**0.89**	**0.54**	**0.86**	**0.86**
Onsite Total (lbs/day) [a]	**0.04**	**0.10**	**0.10**	**0.08**	**0.09**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.09**	**0.08**	**0.07**	**0.07**	**0.07**	**0.07**	**0.05**	**0.04**	**0.04**	**0.04**	**0.04**	**0.04**	**0.04**	**0.02**	**0.04**	**0.04**
Offsite Total (tons/year)	**0.01**																											

Construction Equipment PM_{10} Emissions from Block 2 Construction

	PM_{10} Emissions (lbs/month)																											
Onsite Equipment	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Water Truck	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.14	3.14	3.14	3.14	3.14	3.14
Excavator	5.13	10.26	10.26	10.26	10.26	10.26	5.13	5.13	5.13	5.13	4.40	4.40	4.40	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	7.06	14.11	14.11	7.06	7.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.57	5.57
Cranes	0.00	0.00	0.00	0.00	6.31	6.31	12.62	12.62	12.62	15.77	11.32	11.32	16.98	14.15	11.32	11.32	11.32	11.32	5.66	5.66	5.66	5.66	5.07	5.07	5.07	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.00	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.62	1.62	1.62	1.62	1.62	1.62
Rubber Tired Loader	0.00	7.76	7.76	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	8.22	16.43	16.43	8.22	8.22	8.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	0.00	4.62	4.62	4.62	4.62	9.23	9.23	9.23	9.23	9.23	7.90	7.90	7.90	7.90	7.90	7.90	7.90	7.90	7.90	3.95	3.95	3.95	3.40	3.40	3.40	3.40	3.40	3.40
Forklift	0.00	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	1.78	1.78	1.78	1.48	1.48	1.48	1.48	1.48	1.48
Roller	4.69	9.39	9.39	4.69	4.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.72	3.72
Other General Industrial Equipment	0.00	4.83	4.83	4.83	4.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**29.12**	**77.95**	**77.95**	**54.10**	**60.41**	**48.44**	**41.41**	**41.41**	**41.41**	**44.56**	**36.07**	**36.07**	**41.73**	**38.90**	**31.67**	**31.67**	**31.67**	**31.67**	**26.01**	**20.28**	**16.86**	**16.86**	**14.71**	**14.71**	**14.71**	**9.64**	**18.93**	**18.93**
Onsite Total (lbs/day) [a]	**1.27**	**3.39**	**3.39**	**2.35**	**2.63**	**2.11**	**1.80**	**1.80**	**1.80**	**1.94**	**1.57**	**1.57**	**1.81**	**1.69**	**1.38**	**1.38**	**1.38**	**1.38**	**1.13**	**0.88**	**0.73**	**0.73**	**0.64**	**0.64**	**0.64**	**0.42**	**0.82**	**0.82**
Offsite Total (tons/year)	**0.30**																											

Construction Equipment $PM_{2.5}$ Emissions from Block 2 Construction

	$PM_{2.5}$ Emissions (lbs/month)																											
Onsite Equipment	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Water Truck	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.14	3.14	3.14	3.14	3.14	3.14
Excavator	5.13	10.26	10.26	10.26	10.26	10.26	5.13	5.13	5.13	5.13	4.40	4.40	4.40	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	7.06	14.11	14.11	7.06	7.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.57	5.57
Cranes	0.00	0.00	0.00	0.00	6.31	6.31	12.62	12.62	12.62	15.77	11.32	11.32	16.98	14.15	11.32	11.32	11.32	11.32	5.66	5.66	5.66	5.66	5.07	5.07	5.07	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.00	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.62	1.62	1.62	1.62	1.62	1.62
Rubber Tired Loader	0.00	7.76	7.76	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	8.22	16.43	16.43	8.22	8.22	8.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	0.00	4.62	4.62	4.62	4.62	9.23	9.23	9.23	9.23	9.23	7.90	7.90	7.90	7.90	7.90	7.90	7.90	7.90	7.90	3.95	3.95	3.95	3.40	3.40	3.40	3.40	3.40	3.40
Forklift	0.00	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	1.78	1.78	1.78	1.48	1.48	1.48	1.48	1.48	1.48
Roller	4.69	9.39	9.39	4.69	4.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.72	3.72
Other General Industrial Equipment	0.00	4.83	4.83	4.83	4.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**29.12**	**77.95**	**77.95**	**54.10**	**60.41**	**48.44**	**41.41**	**41.41**	**41.41**	**44.56**	**36.07**	**36.07**	**41.73**	**38.90**	**31.67**	**31.67**	**31.67**	**31.67**	**26.01**	**20.28**	**16.86**	**16.86**	**14.71**	**14.71**	**14.71**	**9.64**	**18.93**	**18.93**
Onsite Total (lbs/day) [a]	**1.27**	**3.39**	**3.39**	**2.35**	**2.63**	**2.11**	**1.80**	**1.80**	**1.80**	**1.94**	**1.57**	**1.57**	**1.81**	**1.69**	**1.38**	**1.38**	**1.38**	**1.38**	**1.13**	**0.88**	**0.73**	**0.73**	**0.64**	**0.64**	**0.64**	**0.42**	**0.82**	**0.82**
Offsite Total (tons/year)	**0.30**																											

Table 5.1A.19R Onsite Construction Equipment Exhaust Emissions

Construction Equipment CO_2 Emissions from Block 2 Construction

Onsite Equipment	CO_2 Emissions (metric tons/month)																											
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Water Truck	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47
Excavator	10.20	20.40	20.40	20.40	20.40	20.40	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	10.61	21.23	21.23	10.61	10.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.61	10.61
Cranes	0.00	0.00	0.00	0.00	15.51	15.51	31.02	31.02	31.02	38.77	31.02	31.02	46.52	38.77	31.02	31.02	31.02	31.02	15.51	15.51	15.51	15.51	15.51	15.51	15.51	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.00	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05
Rubber Tired Loader	0.00	6.95	6.95	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	5.65	11.31	11.31	5.65	5.65	5.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	0.00	4.02	4.02	4.02	4.02	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
Forklift	0.00	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49
Roller	3.79	7.58	7.58	3.79	3.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.79	3.79
Other General Industrial Equipment	0.00	7.18	7.18	7.18	7.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (metric tons/month)	**44.72**	**105.17**	**105.17**	**81.63**	**97.14**	**79.57**	**79.23**	**79.23**	**79.23**	**86.98**	**79.23**	**79.23**	**94.74**	**86.98**	**69.03**	**69.03**	**69.03**	**69.03**	**53.52**	**45.01**	**41.53**	**41.53**	**41.53**	**41.53**	**41.53**	**26.03**	**40.43**	**40.43**
Onsite Total (metric tons/day) [a]	**1.94**	**4.57**	**4.57**	**3.55**	**4.22**	**3.46**	**3.44**	**3.44**	**3.44**	**3.78**	**3.44**	**3.44**	**4.12**	**3.78**	**3.00**	**3.00**	**3.00**	**3.00**	**2.33**	**1.96**	**1.81**	**1.81**	**1.81**	**1.81**	**1.81**	**1.13**	**1.76**	**1.76**
Onsite Total (metric tons/year)	**1,046.53**																											

Construction Equipment N_2O Emissions from Block 2 Construction

Onsite Equipment	N_2O Emissions (metric tons/month)																											
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Water Truck	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004
Excavator	0.0003	0.0005	0.0005	0.0005	0.0005	0.0005	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Grader	0.0003	0.0005	0.0005	0.0003	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0003	0.0003
Cranes	0.0000	0.0000	0.0000	0.0000	0.0004	0.0004	0.0008	0.0008	0.0008	0.0010	0.0008	0.0008	0.0012	0.0010	0.0008	0.0008	0.0008	0.0008	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0000	0.0000	0.0000
Tractor/Loader/Backhoe	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Rubber Tired Loader	0.0000	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Crawler Tractor	0.0001	0.0003	0.0003	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Air Compressor	0.0000	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Forklift	0.0000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Roller	0.0001	0.0002	0.0002	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001
Other General Industrial Equipment	0.0000	0.0002	0.0002	0.0002	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Onsite Total (metric tons/month)	**0.0011**	**0.0027**	**0.0027**	**0.0021**	**0.0025**	**0.0020**	**0.0020**	**0.0020**	**0.0020**	**0.0022**	**0.0020**	**0.0020**	**0.0024**	**0.0022**	**0.0018**	**0.0018**	**0.0018**	**0.0018**	**0.0014**	**0.0011**	**0.0011**	**0.0011**	**0.0011**	**0.0011**	**0.0011**	**0.0007**	**0.0010**	**0.0010**
Onsite Total (metric tons/day) [a]	**0.0000**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**
Onsite Total (metric tons/year)	**0.0267**																											

Construction Equipment CH_4 Emissions from Block 2 Construction

Onsite Equipment	CH_4 Emissions (metric tons/month)																											
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Water Truck	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
Excavator	0.0006	0.0012	0.0012	0.0012	0.0012	0.0012	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Grader	0.0006	0.0012	0.0012	0.0006	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0006	0.0006
Cranes	0.0000	0.0000	0.0000	0.0000	0.0009	0.0009	0.0018	0.0018	0.0018	0.0022	0.0018	0.0018	0.0026	0.0022	0.0018	0.0018	0.0018	0.0018	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0000	0.0000	0.0000
Tractor/Loader/Backhoe	0.0000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Rubber Tired Loader	0.0000	0.0004	0.0004	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Crawler Tractor	0.0003	0.0006	0.0006	0.0003	0.0003	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Air Compressor	0.0000	0.0002	0.0002	0.0002	0.0002	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Forklift	0.0000	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
Roller	0.0002	0.0004	0.0004	0.0002	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002	0.0002
Other General Industrial Equipment	0.0000	0.0004	0.0004	0.0004	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Onsite Total (metric tons/month)	**0.0025**	**0.0060**	**0.0060**	**0.0046**	**0.0055**	**0.0045**	**0.0045**	**0.0045**	**0.0045**	**0.0049**	**0.0045**	**0.0045**	**0.0054**	**0.0049**	**0.0039**	**0.0039**	**0.0039**	**0.0039**	**0.0030**	**0.0026**	**0.0024**	**0.0024**	**0.0024**	**0.0024**	**0.0024**	**0.0015**	**0.0023**	**0.0023**
Onsite Total (metric tons/day) [a]	**0.0001**	**0.0003**	**0.0003**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**
Onsite Total (metric tons/year)	**0.0595**																											

Notes:

[a] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls', the days per month are as follows: 23

Huntington Beach Energy Project
Construction Emission Estimates - Block 2 Construction
April 2014

Table 5.1A.20R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle CO Emissions from Block 2 Construction

	CO Emissions (lbs/day)																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.01	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Onsite Stake Truck	0.04	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Onsite Dump Truck	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.07**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.13**	**0.13**	**0.13**	**0.13**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.07**	**0.07**	**0.07**
	CO Emissions (lbs/month) [a]																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.30	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Onsite Stake Truck	0.91	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Onsite Dump Truck	0.46	0.91	0.91	0.91	0.91	0.91	0.91	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.00	0.00	0.00
Onsite Total (lbs/month)	**1.67**	**3.34**	**3.34**	**3.34**	**3.34**	**3.34**	**3.34**	**2.88**	**2.88**	**2.88**	**2.88**	**1.97**	**1.97**	**1.97**	**1.97**	**1.97**	**1.97**	**1.97**	**1.97**	**1.97**	**1.97**	**1.97**	**1.97**	**1.97**	**1.97**	**1.51**	**1.51**	**1.51**
Offsite Total (tons/year)	**0.02**																											

Onsite Construction Vehicle VOC Emissions from Block 2 Construction

	VOC Emisisons (lbs/day)																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Stake Truck	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Onsite Dump Truck	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.035**	**0.069**	**0.069**	**0.069**	**0.069**	**0.069**	**0.069**	**0.058**	**0.058**	**0.058**	**0.058**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.024**	**0.024**	**0.024**	
	VOC Emissions (lbs/month) [a]																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Onsite Stake Truck	0.52	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
Onsite Dump Truck	0.26	0.52	0.52	0.52	0.52	0.52	0.52	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.00	0.00	0.00
Onsite Total (lbs/month)	**0.79**	**1.59**	**1.59**	**1.59**	**1.59**	**1.59**	**1.59**	**1.33**	**1.33**	**1.33**	**1.33**	**0.81**	**0.81**	**0.81**	**0.81**	**0.81**	**0.81**	**0.81**	**0.81**	**0.81**	**0.81**	**0.81**	**0.81**	**0.81**	**0.81**	**0.55**	**0.55**	**0.55**
Offsite Total (tons/year)	**0.01**																											

Onsite Construction Vehicle SOx Emissions from Block 2 Construction

	SOx Emissions (lbs/day)																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.00005	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010
Onsite Stake Truck	0.00016	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016
Onsite Dump Truck	0.00008	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00000	0.00000	0.00000
Onsite Total (lbs/day)	**0.00029**	**0.00059**	**0.00059**	**0.00059**	**0.00059**	**0.00059**	**0.00059**	**0.00050**	**0.00050**	**0.00050**	**0.00050**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00026**	**0.00026**	**0.00026**
	SOx Emissions (lbs/month) [a]																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.0011	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022
Onsite Stake Truck	0.0038	0.0075	0.0075	0.0075	0.0075	0.0075	0.0075	0.0075	0.0075	0.0075	0.0075	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038
Onsite Dump Truck	0.0019	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0000	0.0000	0.0000
Onsite Total (lbs/month)	**0.0067**	**0.0135**	**0.0135**	**0.0135**	**0.0135**	**0.0135**	**0.0135**	**0.0116**	**0.0116**	**0.0116**	**0.0116**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0060**	**0.0060**	**0.0060**
Offsite Total (tons/year)	**0.0001**																											

Onsite Construction Vehicle NOx Emissions from Block 2 Construction

	NOx Emissions (lbs/day)																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Stake Truck	0.07	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05
Onsite Dump Truck	0.03	0.07	0.07	0.07	0.07	0.07	0.07	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.10**	**0.20**	**0.20**	**0.20**	**0.20**	**0.20**	**0.20**	**0.17**	**0.17**	**0.17**	**0.15**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.08**	**0.08**	**0.08**	**0.06**	**0.06**	**0.06**
	NOx Emissions (lbs/month) [a]																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.03	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Onsite Stake Truck	1.51	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	2.74	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.25	1.25	1.25	1.25	1.25	1.25
Onsite Dump Truck	0.76	1.51	1.51	1.51	1.51	1.51	1.51	0.76	0.76	0.76	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.62	0.62	0.62	0.00	0.00	0.00
Onsite Total (lbs/month)	**2.30**	**4.60**	**4.60**	**4.60**	**4.60**	**4.60**	**4.60**	**3.84**	**3.84**	**3.84**	**3.47**	**2.11**	**2.11**	**2.11**	**2.11**	**2.11**	**2.11**	**2.11**	**2.11**	**2.11**	**2.11**	**2.11**	**1.92**	**1.92**	**1.92**	**1.29**	**1.29**	**1.29**
Offsite Total (tons/year)	**0.02**																											

Onsite Construction Vehicle PM_{10} Emissions from Block 2 Construction

	PM_{10} Emissions (lbs/day)																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.0006	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011
Onsite Stake Truck	0.0031	0.0063	0.0063	0.0063	0.0063	0.0063	0.0063	0.0063	0.0063	0.0063	0.0053	0.0026	0.0026	0.0026	0.0026	0.0026	0.0026	0.0026	0.0026	0.0026	0.0026	0.0026	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022
Onsite Dump Truck	0.0016	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031	0.0016	0.0016	0.0016	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0011	0.0011	0.0011	0.0000	0.0000	0.0000
Onsite Total (lbs/day)	**0.0052**	**0.0105**	**0.0105**	**0.0105**	**0.0105**	**0.0105**	**0.0105**	**0.0089**	**0.0089**	**0.0089**	**0.0077**	**0.0051**	**0.0051**	**0.0051**	**0.0051**	**0.0051**	**0.0051**	**0.0051**	**0.0051**	**0.0051**	**0.0051**	**0.0051**	**0.0045**	**0.0045**	**0.0045**	**0.0034**	**0.0034**	**0.0034**
	PM_{10} Emissions (lbs/month) [a]																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.01	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Onsite Stake Truck	0.07	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.12	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05
Onsite Dump Truck	0.04	0.07	0.07	0.07	0.07	0.07	0.07	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.00	0.00	0.00
Onsite Total (lbs/month)	**0.12**	**0.24**	**0.24**	**0.24**	**0.24**	**0.24**	**0.24**	**0.21**	**0.21**	**0.21**	**0.18**	**0.12**	**0.12**	**0.12**	**0.12**	**0.12**	**0.12**	**0.12**	**0.12**	**0.12**	**0.12**	**0.12**	**0.10**	**0.10**	**0.10**	**0.08**	**0.08**	**0.08**
Offsite Total (tons/year)	**0.00**																											

Huntington Beach Energy Project
Construction Emission Estimates - Block 2 Construction
April 2014

Table 5.1A.20R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle $PM_{2.5}$ Emissions from Block 2 Construction

	$PM_{2.5}$ Emissions (lbs/day)																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.0005	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009
Onsite Stake Truck	0.0027	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.0045	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019
Onsite Dump Truck	0.0014	0.0027	0.0027	0.0027	0.0027	0.0027	0.0027	0.0014	0.0014	0.0014	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0009	0.0009	0.0009	0.0000	0.0000	0.0000
Onsite Total (lbs/day)	**0.0045**	**0.0090**	**0.0090**	**0.0090**	**0.0090**	**0.0090**	**0.0090**	**0.0077**	**0.0077**	**0.0077**	**0.0066**	**0.0043**	**0.0043**	**0.0043**	**0.0043**	**0.0043**	**0.0043**	**0.0043**	**0.0043**	**0.0043**	**0.0043**	**0.0043**	**0.0038**	**0.0038**	**0.0038**	**0.0028**	**0.0028**	**0.0028**
	$PM_{2.5}$ Emissions (lbs/month) [a]																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.010	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
Onsite Stake Truck	0.062	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.104	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.043	0.043	0.043	0.043	0.043	0.043
Onsite Dump Truck	0.031	0.062	0.062	0.062	0.062	0.062	0.062	0.031	0.031	0.031	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.022	0.022	0.022	0.000	0.000	0.000
Onsite Total (lbs/month)	**0.104**	**0.208**	**0.208**	**0.208**	**0.208**	**0.208**	**0.208**	**0.177**	**0.177**	**0.177**	**0.151**	**0.099**	**0.099**	**0.099**	**0.099**	**0.099**	**0.099**	**0.099**	**0.099**	**0.099**	**0.099**	**0.099**	**0.086**	**0.086**	**0.086**	**0.065**	**0.065**	**0.065**
Offsite Total (tons/year)	**0.001**																											

Onsite Construction Vehicle CO_2 Emissions from Block 2 Construction

	CO_2 Emissions (metric tons/day)																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.002	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Onsite Stake Truck	0.008	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Onsite Dump Truck	0.004	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.000	0.000	0.000
Onsite Total (metric tons/day)	**0.014**	**0.028**	**0.028**	**0.028**	**0.028**	**0.028**	**0.028**	**0.028**	**0.024**	**0.024**	**0.024**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.013**	**0.013**	**0.013**
	CO_2 Emissions (metric tons/month) [a]																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.05	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Onsite Stake Truck	0.18	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Onsite Dump Truck	0.09	0.18	0.18	0.18	0.18	0.18	0.18	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.00	0.00	0.00
Onsite Total (metric tons/month)	**0.32**	**0.65**	**0.65**	**0.65**	**0.65**	**0.65**	**0.65**	**0.56**	**0.56**	**0.56**	**0.56**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.29**	**0.29**	**0.29**
Onsite Total (metric tons/year)	**6.86**																											

Onsite Construction Vehicle N_2O Emissions from Block 2 Construction

	N_2O Emissions (metric tons/day)																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.000000013	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026
Onsite Stake Truck	0.000000010	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010
Onsite Dump Truck	0.000000005	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000000	0.000000000	0.000000000
Onsite Total (metric tons/day)	**0.000000028**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000050**	**0.000000050**	**0.000000050**	**0.000000050**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000036**	**0.000000036**	**0.000000036**
	N_2O Emissions (metric tons/month) [a]																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.0000003	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006
Onsite Stake Truck	0.0000002	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002
Onsite Dump Truck	0.0000001	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000000	0.0000000	0.0000000
Onsite Total (metric tons/month)	**0.0000006**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000012**	**0.0000012**	**0.0000012**	**0.0000012**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000008**	**0.0000008**	**0.0000008**
Onsite Total (metric tons/year)	**0.0000141**																											

Onsite Construction Vehicle CH_4 Emissions from Block 2 Construction

	CH_4 Emissions (metric tons/day)																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.000000033	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065
Onsite Stake Truck	0.000000010	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010
Onsite Dump Truck	0.000000005	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000000	0.000000000	0.000000000
Onsite Total (metric tons/day)	**0.000000048**	**0.000000096**	**0.000000096**	**0.000000096**	**0.000000096**	**0.000000096**	**0.000000096**	**0.000000091**	**0.000000091**	**0.000000091**	**0.000000091**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000075**	**0.000000075**	**0.000000075**
	CH_4 Emissions (metric tons/month) [a]																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.0000007	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015
Onsite Stake Truck	0.0000002	0.0000005	0.0000005	0.0000005	0.0000005	0.0000005	0.0000005	0.0000005	0.0000005	0.0000005	0.0000005	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002
Onsite Dump Truck	0.0000001	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000000	0.0000000	0.0000000
Onsite Total (metric tons/month)	**0.0000011**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000021**	**0.0000021**	**0.0000021**	**0.0000021**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000017**	**0.0000017**	**0.0000017**
Onsite Total (metric tons/year)	**0.0000253**																											

Notes:

[a] The days per month are per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls', as presented on the 'Fugitive Dust' tab.

Table 5.1A.21R Onsite Construction Fugitive Dust Emissions

Grading and Bulldozing Activity Levels for Block 2 Construction

Source	Monthly Activity Levels																												
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Onsite Disturbance (acres) [a]	0.66	0.66	0.66	0.66	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0.66	0.66
Bulldozer Operation (hours) [b]	230	460	460	230	230	230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite Disturbance (acres) [c]	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33

Notes:
[a] Estimated a total of 4.6 acres is disturbed during Block 2 Construction as estimated based on data provided by H. Larios/PEC on 3/23/12; assumed this disturbance was equally distributed amongst the months in which graders are utilized.
[b] Bulldozer Operation calculated based on the number of equipment and the hours of operation per month, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls':
Hours per Day: 10
Days per Month: 23
[c] Estimated a total of 16 acres is disturbed at Alamitos for a laydown area during Block 1 and Block 2 Construction and assumed this disturbance was equally distributed amongst the construction activity (48 months total). Also assumed only fugitive dust from grading would occur in this location (i.e., not bulldozing).

Onsite Construction Vehicle Fugitive PM_{10} Emissions from Block 2 Construction

Vehicle Type	Fugitive PM_{10} Emissions (lbs/day) [a]																											
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Onsite Pick-up Truck	0.69	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
Onsite Stake Truck	0.69	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Onsite Dump Truck	0.35	0.69	0.69	0.69	0.69	0.69	0.69	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.00	0.00	0.00
Onsite Total (lbs/day)	**1.73**	**3.47**	**3.47**	**3.47**	**3.47**	**3.47**	**3.47**	**3.12**	**3.12**	**3.12**	**3.12**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.08**	**2.08**	**2.08**
Vehicle Type	**Fugitive PM_{10} Emissions (lbs/month) [a]**																											
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Onsite Pick-up Truck	15.95	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90
Onsite Stake Truck	15.95	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95
Onsite Dump Truck	7.98	15.95	15.95	15.95	15.95	15.95	15.95	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	0.00	0.00	0.00
Onsite Total (lbs/month)	**39.88**	**79.76**	**79.76**	**79.76**	**79.76**	**79.76**	**79.76**	**71.78**	**71.78**	**71.78**	**71.78**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**47.85**	**47.85**	**47.85**
Offsite Total (tons/year)	**0.44**																											

Notes:
[a] Emissions based on highest (controlled) unpaved road emission factor for PM_{10}.

Onsite Construction Vehicle Fugitive $PM_{2.5}$ Emissions from Block 2 Construction

Vehicle Type	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a]																											
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Onsite Pick-up Truck	0.07	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Onsite Stake Truck	0.07	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Onsite Dump Truck	0.03	0.07	0.07	0.07	0.07	0.07	0.07	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.17**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.31**	**0.31**	**0.31**	**0.31**	**0.24**	**0.24**	**0.24**	**0.24**	**0.24**	**0.24**	**0.24**	**0.24**	**0.24**	**0.24**	**0.24**	**0.24**	**0.24**	**0.24**	**0.21**	**0.21**	**0.21**
Vehicle Type	**Fugitive $PM_{2.5}$ Emissions (lbs/month) [a]**																											
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Onsite Pick-up Truck	1.60	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19
Onsite Stake Truck	1.60	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
Onsite Dump Truck	0.80	1.60	1.60	1.60	1.60	1.60	1.60	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.00	0.00	0.00
Onsite Total (lbs/month)	**3.99**	**7.98**	**7.98**	**7.98**	**7.98**	**7.98**	**7.98**	**7.18**	**7.18**	**7.18**	**7.18**	**5.58**	**5.58**	**5.58**	**5.58**	**5.58**	**5.58**	**5.58**	**5.58**	**5.58**	**5.58**	**5.58**	**5.58**	**5.58**	**5.58**	**4.79**	**4.79**	**4.79**
Offsite Total (tons/year)	**0.04**																											

Notes:
[a] Emissions based on the highest (controlled) unpaved road emission factor for $PM_{2.5}$.

Onsite Grading and Bulldozing Fugitive PM_{10} Emissions from Block 2 Construction

Construction Activity	Fugitive PM_{10} Emissions (lbs/day) [a, b]																											
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Grading [c]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulldozing	1.20	2.41	2.41	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**1.21**	**2.41**	**2.41**	**1.21**	**1.21**	**1.20**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Construction Activity	**Fugitive PM_{10} Emissions (lbs/month) [a, b]**																											
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Grading	0.11	0.11	0.11	0.11	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.11
Bulldozing	27.70	55.40	55.40	27.70	27.70	27.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**27.81**	**55.51**	**55.51**	**27.81**	**27.81**	**27.70**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.11**	**0.11**
Offsite Total (tons/year)	**0.11**																											

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Emissions based on the highest (controlled) emission factor for PM_{10}.
[c] Per Section 4.3 of Appendix A of the CalEEMod User's Guide, the following blade width was assumed for grading equipment: 12 ft

Onsite Grading and Bulldozing Fugitive $PM_{2.5}$ Emissions from Block 2 Construction

Construction Activity	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a, b]																											
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Grading [c]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulldozing	0.66	1.32	1.32	0.66	0.66	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.66**	**1.32**	**1.32**	**0.66**	**0.66**	**0.66**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Construction Activity	**Fugitive $PM_{2.5}$ Emissions (lbs/month) [a, b]**																											
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Grading	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
Bulldozing	15.23	30.45	30.45	15.23	15.23	15.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**15.24**	**30.47**	**30.47**	**15.24**	**15.24**	**15.23**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.01**	**0.01**
Offsite Total (tons/year)	**0.06**																											

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Emissions based on the highest (controlled) emission factor for $PM_{2.5}$.
[c] Per Section 4.3 of Appendix A of the CalEEMod User's Guide, the following blade width was assumed for grading equipment: 12 ft

Table 5.1A.21R Onsite Construction Fugitive Dust Emissions

Offsite Grading Fugitive PM_{10} Emissions from Block 2 Construction

Construction Activity	Fugitive PM_{10} Emissions (lbs/day) [a]																								
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Grading [b]	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Offsite Total (lbs/day)	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**

Construction Activity	Fugitive PM_{10} Emissions (lbs/month) [a]																								
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Grading	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Offsite Total (lbs/month)	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**
Offsite Total (tons/year)	**0.00**																								

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Per Section 4.3 of Appendix A of the CalEEMod User's Guide, the following blade width was assumed for grading equipment: 12 ft

Offsite Grading Fugitive $PM_{2.5}$ Emissions from Block 2 Construction

Construction Activity	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a]																								
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Grading	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017
Offsite Total (lbs/day)	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**

Construction Activity	Fugitive $PM_{2.5}$ Emissions (lbs/month) [a]																								
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Grading	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
Offsite Total (lbs/month)	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**
Offsite Total (tons/year)	**0.000**																								

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Per Section 4.3 of Appendix A of the CalEEMod User's Guide, the following blade width was assumed for grading equipment: 12 ft

Onsite Construction Vehicle Activity for Block 2 Construction

Vehicle Type	Miles/Day [a]	Working Days per
Onsite Pick-up Truck	2	23
Onsite Stake Truck	2	23
Onsite Dump Truck	1	23

Notes:
[a] Estimated based on the dimensions of the project site.
[b] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Fugitive Dust Emission Factors for Unpaved Roads

Vehicles on Unpaved Surfaces at Industrial Sites

Parameter	PM_{10}	$PM_{2.5}$
Mean Vehicle Weight [a]	16.5	16.5
Silt Content [b]	8.5	8.5
k [c]	1.5	0.15
a [c]	0.9	0.9
b [c]	0.45	0.45
P [d]	31	31
Emission Factor (Uncontrolled, lbs/mile) [e]	2.17	0.22
Reduction from Applying Soil Stabilizers [f]	84%	84%
Emission Factor (Controlled, lbs/mile)	0.35	0.03

Notes:
[a] Mean vehicle weight assumes that medium/heavy duty trucks weigh 16.5 tons.
[b] Silt content taken from Table 13.2.2-1 of Section 13.2.2 of AP-42 for a Construction Site, Scraper Route; this value is consistent with the CalEEMod defaults for the South Coast Air Basin.
[c] k, a, and b taken from Table 13.2.2-2 of Section 13.2.2 of AP-42 for industrial roads.
[d] P taken as the CalEEMod default for the Huntington Beach climate region of the South Coast Air Basin.
[e] Emission factor calculated using Equations 1a and 2 from Section 13.2.2 of AP-42:

Emission Factor (lbs/mile) = (k (lbs/mile) x [Silt Content (%) / 12][a] x [Mean Vehicle Weight (tons) / 3][b]) x [(365 - P) / 365]

[f] Control efficiency taken from Table XI-D of the SCAQMD CEQA Handbook for Travel Over Unpaved Roads.

Fugitive Dust Emission Factors for Grading

Grading Equipment Passes

Parameter	PM_{10}	$PM_{2.5}$
S (mph) [a]	7.1	7.1
F [a]	0.6	0.031
Emission Factor (lbs/VMT) [b]	1.543	0.167
Reduction from Applying Soil Stabilizers [c]	84%	84%
Emission Factor (Controlled, lbs/VMT)	0.247	0.027

Notes:
[a] The mean vehicle speed (S) and the particulate matter scaling factor (F) taken from Section 11.9 of AP-42 per Section 4.3 of Appendix A of the CalEEMod User's Guide.
[b] Emission factor calculated using the following equation from Section 4.3 of Appendix A of the CalEEMod User's Guide:

PM_{10} Emission Factor (lbs/VMT) = $0.051 \times (S)^{2.0} \times F_{PM10}$

$PM_{2.5}$ Emission Factor (lbs/VMT) = $0.04 \times (S)^{2.5} \times F_{PM2.5}$

[c] Control efficiency taken from Table XI-A of the SCAQMD CEQA Handbook for Post-demolition Stabilization.

Fugitive Dust Emission Factors for Bulldozing

Bulldozing Equipment Passes

Parameter	PM_{10}	$PM_{2.5}$
C [a]	1.0	5.7
M (%) [a]	7.9	7.9
s (%) [a]	6.9	6.9
F [a]	0.75	0.105
Emission Factor (lbs/hr) [b]	0.753	0.414
Reduction from Applying Soil Stabilizers [c]	84%	84%
Emission Factor (Controlled, lbs/hr)	0.120	0.066

Notes:
[a] The arbitrary coefficient (C), material moisture content (M), material silt content (s), and particulate matter scaling factor (F) taken from Section 11.9 of AP-42 per Section 4.3 of Appendix A of the CalEEMod User's Guide. These values are consistent with the CalEEMod defaults for the South Coast Air Basin.
[b] Emission factor calculated using the following equation from Section 4.3 of Appendix A of the CalEEMod User's Guide:

PM_{10} Emission Factor (lbs/hr) = $[(C \times s^{1.5}) / M^{1.4}] \times F_{PM10}$

$PM_{2.5}$ Emission Factor (lbs/hr) = $[(C \times s^{1.2}) / M^{1.3}] \times F_{PM2.5}$

[c] Control efficiency taken from Table XI-A of the SCAQMD CEQA Handbook for Post-demolition Stabilization.

Huntington Beach Energy Project
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Table 5.1A.22R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle Usage During Block 2 Construction

	Number per Day																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks [a]	0.00	0.00	0.75	0.75	0.75	0.75	0.75	0.75	0.75	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Material Hauling Trucks [b, c]	0.38	0.38	0.38	4.88	5.13	6.25	6.75	4.75	6.75	9.25	12.85	11.75	11.85	12.25	11.50	10.50	8.70	7.70	8.70	5.70	8.70	4.70	3.70	3.70	2.70	2.70	3.70	2.70
Directly to HBEP	0.15	0.15	0.15	1.95	2.05	2.50	2.70	1.90	2.70	3.70	5.14	4.70	4.74	4.90	4.60	4.20	3.48	3.08	3.48	2.28	3.48	1.88	1.48	1.48	1.08	1.08	1.48	1.08
Directly to Alamitos	0.23	0.23	0.23	2.93	3.08	3.75	4.05	2.85	4.05	5.55	7.71	7.05	7.11	7.35	6.90	6.30	5.22	4.62	5.22	3.42	5.22	2.82	2.22	2.22	1.62	1.62	2.22	1.62
To HBEP from Alamitos	0.23	0.23	0.23	2.93	3.08	3.75	4.05	2.85	4.05	5.55	7.71	7.05	7.11	7.35	6.90	6.30	5.22	4.62	5.22	3.42	5.22	2.82	2.22	2.22	1.62	1.62	2.22	1.62
Construction Worker Commute [d]	37.00	49.00	69.00	79.00	99.00	111.00	110.00	132.00	134.00	142.00	146.00	176.00	230.00	230.00	230.00	230.00	235.00	236.00	236.00	231.00	231.00	231.00	231.00	175.00	141.00	90.00	86.00	86.00

Notes:

[a] Offsite Delivery Trucks include trucks transporting "Consumables & Supplies", as provided in 'Huntington Beach Truck Deliveries 032112.xls'. It was assumed that these trucks travel directly to HBEP.

[b] Material Hauling Trucks include trucks transporting "Fill Material", "Mechanical Equipment", "Electrical Equip. & Mtrls", "Piping, Supports, & Valves", "Concrete and Rebar", "Steel/Architectural", "Contractor Mobilization", "Contractor Demobilization", "Construction Equipment", "HRSGs", "CGTs", "CTGs", "STGs", and "Main Transformers", as provided in 'Huntington Beach Truck Deliveries 032112.xls'.

[c] Per "Huntington Beach Truck Deliveries 032112.xls", assumed that 40% of the material haul trucks travel directly to HBEP, that the remaining 60% travel directly to Alamitos, and that all of the materials delivered to Alamitos will later be delivered to HBEP.

[d] Assumed 1 commute per 1 worker; number of workers taken from 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Offsite Vehicle CO Emissions from Block 2 Construction

	CO Emissions (lbs/day)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Material Hauling Trucks																												
Directly to HBEP	0.02	0.02	0.02	0.26	0.27	0.33	0.36	0.25	0.36	0.49	0.69	0.63	0.63	0.65	0.61	0.56	0.46	0.41	0.46	0.30	0.46	0.25	0.20	0.20	0.14	0.14	0.20	0.14
Directly to Alamitos	0.03	0.03	0.03	0.39	0.41	0.50	0.54	0.38	0.54	0.74	1.03	0.94	0.95	0.98	0.92	0.84	0.70	0.62	0.70	0.46	0.70	0.38	0.30	0.30	0.22	0.22	0.30	0.22
To HBEP from Alamitos	0.02	0.02	0.02	0.25	0.27	0.33	0.35	0.25	0.35	0.48	0.67	0.61	0.62	0.64	0.60	0.55	0.45	0.40	0.45	0.30	0.45	0.24	0.19	0.19	0.14	0.14	0.19	0.14
Construction Worker Commute	2.17	2.87	4.04	4.62	5.79	6.50	6.44	7.73	7.84	8.31	8.54	10.30	13.46	13.46	13.46	13.46	13.75	13.81	13.81	13.52	13.52	13.52	13.52	10.24	8.25	5.27	5.03	5.03
Offsite Total (lbs/day)	**2.23**	**2.94**	**4.15**	**5.57**	**6.79**	**7.70**	**7.73**	**8.65**	**9.14**	**10.09**	**10.99**	**12.54**	**15.72**	**15.79**	**15.65**	**15.47**	**15.43**	**15.30**	**15.49**	**14.64**	**15.19**	**14.45**	**14.27**	**10.99**	**8.81**	**5.83**	**5.78**	**5.59**
	CO Emissions (lbs/month)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.00	0.00	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
Material Hauling Trucks																												
Directly to HBEP	0.46	0.46	0.46	5.98	6.29	7.67	8.29	5.83	8.29	11.35	15.77	14.42	14.55	15.04	14.12	12.89	10.68	9.45	10.68	7.00	10.68	5.77	4.54	4.54	3.31	3.31	4.54	3.31
Directly to Alamitos	0.69	0.69	0.69	8.98	9.44	11.51	12.43	8.75	12.43	17.03	23.66	21.63	21.82	22.55	21.17	19.33	16.02	14.18	16.02	10.49	16.02	8.65	6.81	6.81	4.97	4.97	6.81	4.97
To HBEP from Alamitos	0.45	0.45	0.45	5.83	6.13	7.48	8.08	5.68	8.08	11.07	15.38	14.06	14.18	14.66	13.76	12.57	10.41	9.22	10.41	6.82	10.41	5.62	4.43	4.43	3.23	3.23	4.43	3.23
Construction Worker Commute	49.80	65.96	92.88	106.34	133.26	149.41	148.07	177.68	180.37	191.14	196.52	236.90	309.59	309.59	309.59	309.59	316.32	317.67	317.67	310.94	310.94	310.94	310.94	235.56	189.79	121.14	115.76	115.76
Offsite Total (lbs/month)	**51.40**	**67.56**	**95.52**	**128.18**	**156.17**	**177.12**	**177.90**	**198.99**	**210.21**	**231.99**	**252.73**	**288.42**	**361.53**	**363.24**	**360.04**	**355.77**	**354.83**	**351.91**	**356.17**	**336.65**	**349.44**	**332.38**	**328.12**	**252.74**	**202.71**	**134.06**	**132.94**	**128.67**
Offsite Total (tons/year)	**2.07**																											

Offsite Vehicle VOC Emissions from Block 2 Construction

	VOC Emissions (lbs/day)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.000	0.000	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
Material Hauling Trucks																												
Directly to HBEP	0.003	0.003	0.003	0.043	0.045	0.055	0.060	0.042	0.060	0.082	0.114	0.104	0.105	0.108	0.102	0.093	0.077	0.068	0.077	0.050	0.077	0.042	0.033	0.033	0.024	0.024	0.033	0.024
Directly to Alamitos	0.005	0.005	0.005	0.065	0.068	0.083	0.090	0.063	0.090	0.123	0.171	0.156	0.157	0.163	0.153	0.139	0.116	0.102	0.116	0.076	0.116	0.062	0.049	0.049	0.036	0.036	0.049	0.036
To HBEP from Alamitos	0.003	0.003	0.003	0.042	0.044	0.054	0.058	0.041	0.058	0.080	0.111	0.101	0.102	0.106	0.099	0.091	0.075	0.066	0.075	0.049	0.075	0.041	0.032	0.032	0.023	0.023	0.032	0.023
Construction Worker Commute	0.037	0.049	0.069	0.079	0.099	0.111	0.110	0.132	0.134	0.142	0.146	0.176	0.230	0.230	0.230	0.230	0.235	0.236	0.236	0.231	0.231	0.231	0.231	0.175	0.141	0.090	0.086	0.086
Offsite Total (lbs/day)	**0.049**	**0.061**	**0.090**	**0.238**	**0.266**	**0.313**	**0.327**	**0.287**	**0.351**	**0.439**	**0.554**	**0.550**	**0.607**	**0.619**	**0.596**	**0.565**	**0.515**	**0.485**	**0.516**	**0.419**	**0.511**	**0.388**	**0.357**	**0.301**	**0.236**	**0.185**	**0.212**	**0.181**
	VOC Emissions (lbs/month)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.00	0.00	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Material Hauling Trucks																												
Directly to HBEP	0.08	0.08	0.08	0.99	1.04	1.27	1.37	0.97	1.37	1.88	2.62	2.39	2.41	2.49	2.34	2.14	1.77	1.57	1.77	1.16	1.77	0.96	0.75	0.75	0.55	0.55	0.75	0.55
Directly to Alamitos	0.11	0.11	0.11	1.49	1.57	1.91	2.06	1.45	2.06	2.83	3.93	3.59	3.62	3.74	3.51	3.21	2.66	2.35	2.66	1.74	2.66	1.44	1.13	1.13	0.82	0.82	1.13	0.82
To HBEP from Alamitos	0.07	0.07	0.07	0.97	1.02	1.24	1.34	0.94	1.34	1.84	2.55	2.33	2.35	2.43	2.28	2.08	1.73	1.53	1.73	1.13	1.73	0.93	0.73	0.73	0.54	0.54	0.73	0.54
Construction Worker Commute	0.85	1.13	1.59	1.82	2.28	2.55	2.53	3.04	3.08	3.27	3.36	4.05	5.29	5.29	5.29	5.29	5.41	5.43	5.43	5.31	5.31	5.31	5.31	4.03	3.24	2.07	1.98	1.98
Offsite Total (lbs/month)	**1.12**	**1.39**	**2.07**	**5.48**	**6.12**	**7.19**	**7.52**	**6.61**	**8.07**	**10.10**	**12.74**	**12.65**	**13.96**	**14.24**	**13.71**	**13.00**	**11.85**	**11.16**	**11.87**	**9.63**	**11.75**	**8.92**	**8.22**	**6.93**	**5.44**	**4.26**	**4.88**	**4.17**
Offsite Total (tons/year)	**0.07**																											

Offsite Vehicle SOx Emissions from Block 2 Construction

	SOx Emissions (lbs/day)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.0000	0.0000	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Material Hauling Trucks																												
Directly to HBEP	0.0002	0.0002	0.0002	0.0027	0.0028	0.0034	0.0037	0.0026	0.0037	0.0051	0.0070	0.0064	0.0065	0.0067	0.0063	0.0057	0.0048	0.0042	0.0048	0.0031	0.0048	0.0026	0.0020	0.0020	0.0015	0.0015	0.0020	0.0015
Directly to Alamitos	0.0003	0.0003	0.0003	0.0040	0.0042	0.0051	0.0055	0.0039	0.0055	0.0076	0.0105	0.0096	0.0097	0.0100	0.0094	0.0086	0.0071	0.0063	0.0071	0.0047	0.0071	0.0039	0.0030	0.0030	0.0022	0.0022	0.0030	0.0022
To HBEP from Alamitos	0.0002	0.0002	0.0002	0.0026	0.0027	0.0033	0.0036	0.0025	0.0036	0.0049	0.0068	0.0063	0.0063	0.0065	0.0061	0.0056	0.0046	0.0041	0.0046	0.0030	0.0046	0.0025	0.0020	0.0020	0.0014	0.0014	0.0020	0.0014
Construction Worker Commute	0.0057	0.0076	0.0107	0.0122	0.0153	0.0172	0.0170	0.0204	0.0207	0.0220	0.0226	0.0272	0.0356	0.0356	0.0356	0.0356	0.0364	0.0365	0.0365	0.0358	0.0358	0.0358	0.0358	0.0271	0.0218	0.0139	0.0133	0.0133
Offsite Total (lbs/day)	**0.0064**	**0.0083**	**0.0118**	**0.0219**	**0.0255**	**0.0295**	**0.0303**	**0.0299**	**0.0340**	**0.0401**	**0.0476**	**0.0501**	**0.0587**	**0.0594**	**0.0580**	**0.0561**	**0.0534**	**0.0517**	**0.0536**	**0.0471**	**0.0528**	**0.0452**	**0.0433**	**0.0347**	**0.0275**	**0.0196**	**0.0209**	**0.0190**
	SOx Emissions (lbs/month)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.000	0.000	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
Material Hauling Trucks																												
Directly to HBEP	0.005	0.005	0.005	0.061	0.064	0.079	0.085	0.060	0.085	0.116	0.162	0.148	0.149	0.154	0.145	0.132	0.109	0.097	0.109	0.072	0.109	0.059	0.047	0.047	0.034	0.034	0.047	0.034
Directly to Alamitos	0.007	0.007	0.007	0.092	0.097	0.118	0.127	0.090	0.127	0.174	0.242	0.222	0.224	0.231	0.217	0.198	0.164	0.145	0.164	0.108	0.164	0.089	0.070	0.070	0.051	0.051	0.070	0.051
To HBEP from Alamitos	0.005	0.005	0.005	0.060	0.063	0.077	0.083	0.058	0.083	0.113	0.158	0.144	0.145	0.150	0.141	0.129	0.107	0.094	0.107	0.070	0.107	0.058	0.045	0.045	0.033	0.033	0.045	0.033
Construction Worker Commute	0.132	0.174	0.246	0.281	0.352	0.395	0.392	0.470	0.477	0.505	0.520	0.626	0.819	0.819	0.819	0.819	0.836	0.840	0.840	0.822	0.822	0.822	0.822	0.623	0.502	0.320	0.306	0.306
Offsite Total (lbs/month)	**0.148**	**0.191**	**0.271**	**0.504**	**0.586**	**0.678**	**0.696**	**0.687**	**0.781**	**0.922**	**1.094**	**1.153**	**1.349**	**1.367**	**1.334**	**1.290**	**1.229**	**1.189**	**1.233**	**1.084**	**1.215**	**1.040**	**0.997**	**0.797**	**0.632**	**0.451**	**0.480**	**0.437**
Offsite Total (tons/year)	**0.007**																											

Table 5.1A.22R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle NOx Emissions from Block 2 Construction

	NOx Emissions (lbs/day)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.00	0.00	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.17	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.13	0.13	0.13	0.13	0.13	0.13
Material Hauling Trucks																												
Directly to HBEP	0.05	0.05	0.05	0.70	0.73	0.89	0.96	0.68	0.96	1.32	1.65	1.51	1.52	1.57	1.47	1.35	1.11	0.99	1.11	0.73	1.11	0.60	0.43	0.43	0.31	0.31	0.43	0.31
Directly to Alamitos	0.08	0.08	0.08	1.04	1.10	1.34	1.44	1.02	1.44	1.98	2.47	2.26	2.28	2.35	2.21	2.02	1.67	1.48	1.67	1.10	1.67	0.90	0.64	0.64	0.47	0.47	0.64	0.47
To HBEP from Alamitos	0.05	0.05	0.05	0.68	0.71	0.87	0.94	0.66	0.94	1.29	1.60	1.47	1.48	1.53	1.44	1.31	1.09	0.96	1.09	0.71	1.09	0.59	0.42	0.42	0.30	0.30	0.42	0.30
Construction Worker Commute	0.20	0.26	0.37	0.43	0.54	0.60	0.59	0.71	0.72	0.77	0.72	0.87	1.14	1.14	1.14	1.14	1.17	1.17	1.17	1.15	1.15	1.15	1.06	0.81	0.65	0.41	0.40	0.40
Offsite Total (lbs/day)	**0.39**	**0.45**	**0.68**	**2.97**	**3.20**	**3.82**	**4.07**	**3.19**	**4.20**	**5.52**	**6.59**	**6.25**	**6.57**	**6.74**	**6.41**	**5.97**	**5.19**	**4.75**	**5.19**	**3.83**	**5.17**	**3.39**	**2.69**	**2.43**	**1.87**	**1.63**	**2.02**	**1.62**
	NOx Emissions (lbs/month)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.00	0.00	2.88	2.88	2.88	2.88	2.88	2.88	2.88	3.84	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.10	3.10	3.10	3.10	3.10	3.10
Material Hauling Trucks																												
Directly to HBEP	1.23	1.23	1.23	16.00	16.82	20.51	22.15	15.59	22.15	30.36	37.86	34.62	34.91	36.09	33.88	30.94	25.63	22.69	25.63	16.79	25.63	13.85	9.84	9.84	7.18	7.18	9.84	7.18
Directly to Alamitos	1.85	1.85	1.85	24.00	25.23	30.77	33.23	23.38	33.23	45.54	56.79	51.93	52.37	54.14	50.82	46.40	38.45	34.03	38.45	25.19	38.45	20.77	14.76	14.76	10.77	10.77	14.76	10.77
To HBEP from Alamitos	1.20	1.20	1.20	15.60	16.40	20.00	21.60	15.20	21.60	29.60	36.91	33.75	34.04	35.19	33.03	30.16	24.99	22.12	24.99	16.37	24.99	13.50	9.59	9.59	7.00	7.00	9.59	7.00
Construction Worker Commute	4.60	6.09	8.58	9.82	12.31	13.80	13.67	16.41	16.66	17.65	16.67	20.10	26.26	26.26	26.26	26.26	26.83	26.95	26.95	26.38	26.38	26.38	24.48	18.54	14.94	9.54	9.11	9.11
Offsite Total (lbs/month)	**8.88**	**10.37**	**15.74**	**68.30**	**73.64**	**87.96**	**93.54**	**73.47**	**96.53**	**126.99**	**151.67**	**143.83**	**151.02**	**155.12**	**147.44**	**137.20**	**119.34**	**109.22**	**119.46**	**88.17**	**118.89**	**77.93**	**61.78**	**55.84**	**43.00**	**37.59**	**46.41**	**37.17**
Offsite Total (tons/year)	**0.78**																											

Offsite Vehicle PM_{10} Emissions from Block 2 Construction

	PM_{10} Emissions (lbs/day) [a]																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.000	0.000	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.018	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
Material Hauling Trucks																												
Directly to HBEP	0.007	0.007	0.007	0.087	0.091	0.112	0.120	0.085	0.120	0.165	0.224	0.205	0.206	0.213	0.200	0.183	0.152	0.134	0.152	0.099	0.152	0.082	0.063	0.063	0.046	0.046	0.063	0.046
Directly to Alamitos	0.010	0.010	0.010	0.131	0.137	0.167	0.181	0.127	0.181	0.248	0.336	0.307	0.310	0.320	0.301	0.274	0.227	0.201	0.227	0.149	0.227	0.123	0.095	0.095	0.069	0.069	0.095	0.069
To HBEP from Alamitos	0.007	0.007	0.007	0.085	0.089	0.109	0.117	0.083	0.117	0.161	0.218	0.200	0.201	0.208	0.195	0.178	0.148	0.131	0.148	0.097	0.148	0.080	0.062	0.062	0.045	0.045	0.062	0.045
Construction Worker Commute	0.587	0.778	1.095	1.254	1.571	1.761	1.745	2.095	2.126	2.253	2.317	2.793	3.650	3.650	3.650	3.650	3.729	3.745	3.745	3.666	3.666	3.666	3.666	2.777	2.237	1.428	1.365	1.365
Offsite Total (lbs/day)	**0.610**	**0.801**	**1.131**	**1.569**	**1.902**	**2.162**	**2.177**	**2.402**	**2.558**	**2.845**	**3.112**	**3.521**	**4.384**	**4.408**	**4.363**	**4.302**	**4.273**	**4.228**	**4.289**	**4.028**	**4.209**	**3.967**	**3.902**	**3.013**	**2.414**	**1.605**	**1.601**	**1.541**
	PM_{10} Emissions (lbs/month) [a]																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.00	0.00	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.41	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.38	0.38
Material Hauling Trucks																												
Directly to HBEP	0.15	0.15	0.15	2.00	2.10	2.57	2.77	1.95	2.77	3.80	5.15	4.71	4.75	4.91	4.61	4.21	3.49	3.09	3.49	2.28	3.49	1.88	1.45	1.45	1.06	1.06	1.45	1.06
Directly to Alamitos	0.23	0.23	0.23	3.00	3.16	3.85	4.16	2.92	4.16	5.70	7.72	7.06	7.12	7.36	6.91	6.31	5.23	4.63	5.23	3.43	5.23	2.83	2.18	2.18	1.59	1.59	2.18	1.59
To HBEP from Alamitos	0.15	0.15	0.15	1.95	2.05	2.50	2.70	1.90	2.70	3.70	5.02	4.59	4.63	4.79	4.49	4.10	3.40	3.01	3.40	2.23	3.40	1.84	1.42	1.42	1.03	1.03	1.42	1.03
Construction Worker Commute	13.50	17.88	25.18	28.83	36.13	40.51	40.15	48.18	48.91	51.83	53.29	64.23	83.94	83.94	83.94	83.94	85.77	86.13	86.13	84.31	84.31	84.31	84.31	63.87	51.46	32.85	31.39	31.39
Offsite Total (lbs/month)	**14.04**	**18.42**	**26.02**	**36.09**	**43.75**	**49.73**	**50.08**	**55.26**	**58.84**	**65.43**	**71.57**	**80.99**	**100.84**	**101.39**	**100.35**	**98.96**	**98.27**	**97.25**	**98.64**	**92.64**	**96.82**	**91.24**	**89.74**	**69.30**	**55.53**	**36.91**	**36.82**	**35.45**
Offsite Total (tons/year)	**0.57**																											

Notes:
[a] PM_{10} Emissions include emissions from exhaust and paved roads.

Offsite Vehicle $PM_{2.5}$ Emissions from Block 2 Construction

	$PM_{2.5}$ Emissions (lbs/day) [a]																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.000	0.000	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.009	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Material Hauling Trucks																												
Directly to HBEP	0.003	0.003	0.003	0.041	0.043	0.052	0.057	0.040	0.057	0.078	0.098	0.090	0.091	0.094	0.088	0.080	0.066	0.059	0.066	0.044	0.066	0.036	0.028	0.028	0.021	0.021	0.028	0.021
Directly to Alamitos	0.005	0.005	0.005	0.061	0.064	0.079	0.085	0.060	0.085	0.116	0.147	0.135	0.136	0.140	0.132	0.120	0.100	0.088	0.100	0.065	0.100	0.054	0.043	0.043	0.031	0.031	0.043	0.031
To HBEP from Alamitos	0.003	0.003	0.003	0.040	0.042	0.051	0.055	0.039	0.055	0.076	0.096	0.088	0.088	0.091	0.086	0.078	0.065	0.057	0.065	0.042	0.065	0.035	0.028	0.028	0.020	0.020	0.028	0.020
Construction Worker Commute	0.164	0.217	0.306	0.350	0.439	0.492	0.488	0.585	0.594	0.630	0.649	0.783	1.023	1.023	1.023	1.023	1.045	1.049	1.049	1.027	1.027	1.027	1.027	0.778	0.627	0.400	0.382	0.382
Offsite Total (lbs/day)	**0.175**	**0.228**	**0.323**	**0.499**	**0.595**	**0.681**	**0.691**	**0.730**	**0.797**	**0.908**	**0.998**	**1.103**	**1.345**	**1.356**	**1.336**	**1.309**	**1.284**	**1.262**	**1.288**	**1.186**	**1.266**	**1.160**	**1.133**	**0.884**	**0.706**	**0.480**	**0.489**	**0.462**
	$PM_{2.5}$ Emissions (lbs/month) [a]																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.00	0.00	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.20	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17
Material Hauling Trucks																												
Directly to HBEP	0.07	0.07	0.07	0.94	0.99	1.20	1.30	0.92	1.30	1.78	2.26	2.06	2.08	2.15	2.02	1.85	1.53	1.35	1.53	1.00	1.53	0.83	0.65	0.65	0.48	0.48	0.65	0.48
Directly to Alamitos	0.11	0.11	0.11	1.41	1.48	1.81	1.95	1.37	1.95	2.67	3.39	3.10	3.12	3.23	3.03	2.77	2.29	2.03	2.29	1.50	2.29	1.24	0.98	0.98	0.72	0.72	0.98	0.72
To HBEP from Alamitos	0.07	0.07	0.07	0.92	0.96	1.17	1.27	0.89	1.27	1.74	2.20	2.01	2.03	2.10	1.97	1.80	1.49	1.32	1.49	0.98	1.49	0.81	0.64	0.64	0.46	0.46	0.64	0.46
Construction Worker Commute	3.77	5.00	7.04	8.06	10.10	11.32	11.22	13.46	13.67	14.48	14.93	18.00	23.52	23.52	23.52	23.52	24.03	24.13	24.13	23.62	23.62	23.62	23.62	17.90	14.42	9.20	8.79	8.79
Offsite Total (lbs/month)	**4.02**	**5.25**	**7.44**	**11.47**	**13.68**	**15.65**	**15.89**	**16.79**	**18.34**	**20.88**	**22.96**	**25.36**	**30.94**	**31.19**	**30.73**	**30.12**	**29.53**	**29.02**	**29.63**	**27.29**	**29.12**	**26.68**	**26.07**	**20.34**	**16.25**	**11.03**	**11.24**	**10.62**
Offsite Total (tons/year)	**0.17**																											

Notes:
[a] $PM_{2.5}$ Emissions include emissions from exhaust and paved roads.

Offsite Vehicle CO_2 Emissions from Block 2 Construction

	CO_2 Emissions (metric tons/day)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.000	0.000	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
Material Hauling Trucks																												
Directly to HBEP	0.010	0.010	0.010	0.128	0.135	0.164	0.177	0.125	0.177	0.243	0.337	0.308	0.311	0.322	0.302	0.276	0.228	0.202	0.228	0.150	0.228	0.123	0.097	0.097	0.071	0.071	0.097	0.071
Directly to Alamitos	0.015	0.015	0.015	0.192	0.202	0.246	0.266	0.187	0.266	0.364	0.506	0.463	0.467	0.482	0.453	0.413	0.343	0.303	0.343	0.224	0.343	0.185	0.146	0.146	0.106	0.106	0.146	0.106
To HBEP from Alamitos	0.010	0.010	0.010	0.125	0.131	0.160	0.173	0.122	0.173	0.237	0.329	0.301	0.303	0.314	0.294	0.269	0.223	0.197	0.223	0.146	0.223	0.120	0.095	0.095	0.069	0.069	0.095	0.069
Construction Worker Commute	0.256	0.339	0.477	0.546	0.685	0.768	0.761	0.913	0.927	0.982	1.010	1.217	1.591	1.591	1.591	1.591	1.625	1.632	1.632	1.598	1.598	1.598	1.598	1.210	0.975	0.622	0.595	0.595
Offsite Total (metric tons/day)	**0.290**	**0.373**	**0.531**	**1.011**	**1.172**	**1.357**	**1.396**	**1.366**	**1.562**	**1.852**	**2.208**	**2.315**	**2.698**	**2.734**	**2.666**	**2.575**	**2.445**	**2.361**	**2.452**	**2.144**	**2.417**	**2.052**	**1.961**	**1.574**	**1.247**	**0.895**	**0.958**	**0.867**
	CO_2 Emissions (metric tons/month)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.00	0.00	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Material Hauling Trucks																												
Directly to HBEP	0.23	0.23	0.23	2.94	3.09	3.77	4.08	2.87	4.08	5.58	7.76	7.09	7.15	7.40	6.94	6.34	5.25	4.65	5.25	3.44	5.25	2.84	2.23	2.23	1.63	1.63	2.23	1.63
Directly to Alamitos	0.34	0.34	0.34	4.41	4.64	5.66	6.11	4.30	6.11	8.38	11.64	10.64	10.73	11.09	10.41	9.51	7.88	6.97	7.88	5.16	7.88	4.26	3.35	3.35	2.45	2.45	3.35	2.45
To HBEP from Alamitos	0.22	0.22	0.22	2.87	3.02	3.68	3.97	2.80	3.97	5.44	7.56	6.92	6.98	7.21	6.77	6.18	5.12	4.53	5.12	3.36	5.12	2.77	2.18	2.18	1.59	1.59	2.18	1.59
Construction Worker Commute	5.89	7.80	10.98	12.57	15.75	17.66	17.50	21.00	21.32	22.59	23.23	28.00	36.59	36.59	36.59	36.59	37.38	37.54	37.54	36.75	36.75	36.75	36.75	27.84	22.43	14.32	13.68	13.68
Offsite Total (metric tons/month)	**6.67**	**8.58**	**12.21**	**23.24**	**26.95**	**31.22**	**32.11**	**31.41**	**35.93**	**42.59**	**50.78**	**53.25**	**62.05**	**62.89**	**61.31**	**59.21**	**56.23**	**54.29**	**56.39**	**49.30**	**55.60**	**47.20**	**45.11**	**36.20**	**28.69**	**20.58**	**22.04**	**19.94**
Offsite Total (metric tons/year)	**668.51**																											

Table 5.1A.22R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle N_2O Emissions from Block 2 Construction

	N_2O Emissions (metric tons/day)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.00000000	0.00000000	0.00000005	0.00000005	0.00000005	0.00000005	0.00000005	0.00000005	0.00000005	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007
Material Hauling Trucks																												
Directly to HBEP	0.00000003	0.00000003	0.00000003	0.00000037	0.00000039	0.00000048	0.00000052	0.00000036	0.00000052	0.00000071	0.00000099	0.00000090	0.00000091	0.00000094	0.00000088	0.00000081	0.00000067	0.00000059	0.00000067	0.00000044	0.00000067	0.00000036	0.00000028	0.00000028	0.00000021	0.00000021	0.00000028	0.00000021
Directly to Alamitos	0.00000004	0.00000004	0.00000004	0.00000056	0.00000059	0.00000072	0.00000078	0.00000055	0.00000078	0.00000107	0.00000148	0.00000135	0.00000137	0.00000141	0.00000132	0.00000121	0.00000100	0.00000089	0.00000100	0.00000066	0.00000100	0.00000054	0.00000043	0.00000043	0.00000031	0.00000031	0.00000043	0.00000031
To HBEP from Alamitos	0.00000003	0.00000003	0.00000003	0.00000037	0.00000038	0.00000047	0.00000051	0.00000036	0.00000051	0.00000069	0.00000096	0.00000088	0.00000089	0.00000092	0.00000086	0.00000079	0.00000065	0.00000058	0.00000065	0.00000043	0.00000065	0.00000035	0.00000028	0.00000028	0.00000020	0.00000020	0.00000028	0.00000020
Construction Worker Commute	0.00000288	0.00000381	0.00000537	0.00000614	0.00000770	0.00000863	0.00000855	0.00001026	0.00001042	0.00001104	0.00001135	0.00001369	0.00001788	0.00001788	0.00001788	0.00001788	0.00001827	0.00001835	0.00001835	0.00001796	0.00001796	0.00001796	0.00001796	0.00001796	0.00001361	0.00001096	0.00000700	0.00000669	0.00000669
Offsite Total (metric tons/day)	**0.0000030**	**0.0000039**	**0.0000055**	**0.0000075**	**0.0000091**	**0.0000104**	**0.0000104**	**0.0000116**	**0.0000123**	**0.0000136**	**0.0000149**	**0.0000169**	**0.0000211**	**0.0000212**	**0.0000210**	**0.0000208**	**0.0000207**	**0.0000205**	**0.0000207**	**0.0000196**	**0.0000204**	**0.0000193**	**0.0000190**	**0.0000147**	**0.0000118**	**0.0000078**	**0.0000077**	**0.0000075**
	N_2O Emissions (metric tons/month)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.0000000	0.0000000	0.0000012	0.0000012	0.0000012	0.0000012	0.0000012	0.0000012	0.0000012	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016
Material Hauling Trucks																												
Directly to HBEP	0.0000007	0.0000007	0.0000007	0.0000086	0.0000091	0.0000110	0.0000119	0.0000084	0.0000119	0.0000163	0.0000227	0.0000208	0.0000209	0.0000216	0.0000203	0.0000185	0.0000154	0.0000136	0.0000154	0.0000101	0.0000154	0.0000083	0.0000065	0.0000065	0.0000048	0.0000048	0.0000065	0.0000048
Directly to Alamitos	0.0000010	0.0000010	0.0000010	0.0000129	0.0000136	0.0000166	0.0000179	0.0000126	0.0000179	0.0000245	0.0000340	0.0000311	0.0000314	0.0000325	0.0000305	0.0000278	0.0000231	0.0000204	0.0000231	0.0000151	0.0000231	0.0000125	0.0000098	0.0000098	0.0000072	0.0000072	0.0000098	0.0000072
To HBEP from Alamitos	0.0000006	0.0000006	0.0000006	0.0000084	0.0000088	0.0000108	0.0000116	0.0000082	0.0000116	0.0000159	0.0000221	0.0000202	0.0000204	0.0000211	0.0000198	0.0000181	0.0000150	0.0000133	0.0000150	0.0000098	0.0000150	0.0000081	0.0000064	0.0000064	0.0000047	0.0000047	0.0000064	0.0000047
Construction Worker Commute	0.0000662	0.0000876	0.0001234	0.0001413	0.0001771	0.0001985	0.0001967	0.0002361	0.0002397	0.0002540	0.0002611	0.0003148	0.0004114	0.0004114	0.0004114	0.0004114	0.0004203	0.0004221	0.0004221	0.0004131	0.0004131	0.0004131	0.0004131	0.0003130	0.0002522	0.0001610	0.0001538	0.0001538
Offsite Total (metric tons/month)	**0.000068**	**0.000090**	**0.000127**	**0.000172**	**0.000210**	**0.000238**	**0.000239**	**0.000266**	**0.000282**	**0.000312**	**0.000342**	**0.000389**	**0.000486**	**0.000488**	**0.000484**	**0.000477**	**0.000475**	**0.000471**	**0.000477**	**0.000450**	**0.000468**	**0.000444**	**0.000437**	**0.000337**	**0.000270**	**0.000179**	**0.000178**	**0.000172**
Offsite Total (metric tons/year)	**0.00555**																											

Offsite Vehicle CH_4 Emissions from Block 2 Construction

	CH_4 Emissions (metric tons/day)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.00000000	0.00000000	0.00000006	0.00000006	0.00000006	0.00000006	0.00000006	0.00000006	0.00000006	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007
Material Hauling Trucks																												
Directly to HBEP	0.00000003	0.00000003	0.00000003	0.00000040	0.00000042	0.00000051	0.00000055	0.00000039	0.00000055	0.00000075	0.00000105	0.00000096	0.00000097	0.00000100	0.00000094	0.00000086	0.00000071	0.00000063	0.00000071	0.00000047	0.00000071	0.00000038	0.00000030	0.00000030	0.00000022	0.00000022	0.00000030	0.00000022
Directly to Alamitos	0.00000005	0.00000005	0.00000005	0.00000060	0.00000063	0.00000077	0.00000083	0.00000058	0.00000083	0.00000113	0.00000157	0.00000144	0.00000145	0.00000150	0.00000141	0.00000129	0.00000106	0.00000094	0.00000106	0.00000070	0.00000106	0.00000058	0.00000045	0.00000045	0.00000033	0.00000033	0.00000045	0.00000033
To HBEP from Alamitos	0.00000003	0.00000003	0.00000003	0.00000039	0.00000041	0.00000050	0.00000054	0.00000038	0.00000054	0.00000074	0.00000102	0.00000093	0.00000094	0.00000097	0.00000091	0.00000084	0.00000069	0.00000061	0.00000069	0.00000045	0.00000069	0.00000037	0.00000029	0.00000029	0.00000021	0.00000021	0.00000029	0.00000021
Construction Worker Commute	0.00001383	0.00001831	0.00002578	0.00002952	0.00003699	0.00004148	0.00004110	0.00004933	0.00005007	0.00005306	0.00005456	0.00006577	0.00008595	0.00008595	0.00008595	0.00008595	0.00008781	0.00008819	0.00008819	0.00008632	0.00008632	0.00008632	0.00008632	0.00006539	0.00005269	0.00003363	0.00003214	0.00003214
Offsite Total (metric tons/day)	**0.000014**	**0.000018**	**0.000026**	**0.000031**	**0.000039**	**0.000043**	**0.000043**	**0.000051**	**0.000052**	**0.000056**	**0.000058**	**0.000069**	**0.000089**	**0.000089**	**0.000089**	**0.000089**	**0.000090**	**0.000090**	**0.000091**	**0.000088**	**0.000089**	**0.000088**	**0.000087**	**0.000067**	**0.000054**	**0.000034**	**0.000033**	**0.000033**
	CH_4 Emissions (metric tons/month)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.0000000	0.0000000	0.0000013	0.0000013	0.0000013	0.0000013	0.0000013	0.0000013	0.0000013	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017
Material Hauling Trucks																												
Directly to HBEP	0.0000007	0.0000007	0.0000007	0.0000091	0.0000096	0.0000117	0.0000127	0.0000089	0.0000127	0.0000174	0.0000241	0.0000221	0.0000222	0.0000230	0.0000216	0.0000197	0.0000163	0.0000145	0.0000163	0.0000107	0.0000163	0.0000088	0.0000069	0.0000069	0.0000051	0.0000051	0.0000069	0.0000051
Directly to Alamitos	0.0000011	0.0000011	0.0000011	0.0000137	0.0000144	0.0000176	0.0000190	0.0000134	0.0000190	0.0000260	0.0000362	0.0000331	0.0000334	0.0000345	0.0000324	0.0000296	0.0000245	0.0000217	0.0000245	0.0000160	0.0000245	0.0000132	0.0000104	0.0000104	0.0000076	0.0000076	0.0000104	0.0000076
To HBEP from Alamitos	0.0000007	0.0000007	0.0000007	0.0000089	0.0000094	0.0000114	0.0000124	0.0000087	0.0000124	0.0000169	0.0000235	0.0000215	0.0000217	0.0000224	0.0000210	0.0000192	0.0000159	0.0000141	0.0000159	0.0000104	0.0000159	0.0000086	0.0000068	0.0000068	0.0000049	0.0000049	0.0000068	0.0000049
Construction Worker Commute	0.0003180	0.0004211	0.0005930	0.0006790	0.0008509	0.0009540	0.0009454	0.0011345	0.0011517	0.0012204	0.0012548	0.0015127	0.0019768	0.0019768	0.0019768	0.0019768	0.0020197	0.0020283	0.0020283	0.0019854	0.0019854	0.0019854	0.0019854	0.0015041	0.0012118	0.0007735	0.0007391	0.0007391
Offsite Total (metric tons/month)	**0.000320**	**0.000424**	**0.000597**	**0.000712**	**0.000886**	**0.000996**	**0.000991**	**0.001167**	**0.001197**	**0.001282**	**0.001340**	**0.001591**	**0.002056**	**0.002058**	**0.002053**	**0.002047**	**0.002078**	**0.002080**	**0.002087**	**0.002024**	**0.002044**	**0.002018**	**0.002011**	**0.001530**	**0.001231**	**0.000793**	**0.000765**	**0.000758**
Offsite Total (metric tons/year)	**0.02415**																											

Offsite Construction Vehicle Activity for Block 2 Construction

Vehicle Type	Roundtrip Miles/Day [a]	Working Days per Month [b]
Offsite Delivery Trucks	14.6	23
Material Hauling Trucks	40.0	23
Directly to HBEP	40.0	23
Directly to Alamitos	40.0	23
To HBEP from Alamitos	26.0	23
Construction Worker Commute	21.6	23

Notes:

[a] Roundtrip miles/day taken as the CalEEMod defaults for the South Coast Air Basin except for "To HBEP from Alamitos", which was measured using Google Earth.

[b] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Table 5.1A.23R Equations Used to Calculate Criteria Pollutant and GHG Emissions

Equations Used to Calculate Emissions from Block 2 Construction

Emission Source	Pollutant(s)	Equation	Variables
Construction Equipment Exhaust	CO, VOC, NOx, SOx, PM_{10}, and $PM_{2.5}$	$E_m = EF * N * Hp * L * H / 453.6$	E_m = Emissions (lbs/month)
			EF = Emission factor (g/bhp-hr)
			N = Number of pieces of equipment
			Hp = Average horsepower
			L = Average load factor
			H = Hours per month
			453.6 = Conversion from g to lbs
		$E_d = E_m / D$	E_d = Emissions (lbs/day)
			E_m = Emissions (lbs/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2,000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons
	CO_2	$E_m = N * FC * EF * H * 0.001$	E_m = Emissions (metric tons/month)
			N = Number of pieces of equipment
			FC = Fuel consumption (gallons/hour)
			EF = Emission factor (kg/gallon)
			H = Hours per month
			0.001 = Conversion from kg to metric tons
		$E_d = E_m / D$	E_d = Emissions (metric tons/day)
			E_m = Emissions (metric tons/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
	CH_4 and N_2O	$E_m = N * FC * EF * H / 1,000 * 0.001$	E_m = Emissions (metric tons/month)
			N = Number of pieces of equipment
			FC = Fuel consumption (gallons/hour)
			EF = Emission factor (g/gallon)
			H = Hours per month
			1,000 = Conversion from g to kg
			0.001 = Conversion from kg to metric tons
		$E_d = E_m / D$	E_d = Emissions (metric tons/day)
			E_m = Emissions (metric tons/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
Onsite and Offsite Vehicle Exhaust and Paved and Unpaved Road Fugitive PM_{10} and $PM_{2.5}$	CO, VOC, NOx, SOx, PM_{10}, and $PM_{2.5}$	$E_d = N * VMT * EF / 453.6$	E_d = Emissions (lbs/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			EF = EMFAC2007 emission factor (g/mile). Paved and unpaved road fugitive PM_{10} and $PM_{2.5}$ emission factors calculated per Sections 13.2.1 and 13.2.2 of AP-42, respectively.
			453.6 = Conversion from g to lbs
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2,000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons

Table 5.1A.23R Equations Used to Calculate Criteria Pollutant and GHG Emissions

Equations Used to Calculate Emissions from Block 2 Construction

Emission Source	Pollutant(s)	Equation	Variables
Onsite and Offsite Vehicle Exhaust	CO_2	$E_d = N * VMT / FE * EF * 0.001$	E_d = Emissions (metric tons/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			FE = Fuel economy (mpg)
			EF = Emission factor (kg/gallon)
			0.001 = Conversion from kg to metric tons
		$E_m = E_d * D$	E_m = Emissions (metric tons/month)
			E_d = Emissions (metric tons/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
	CH_4 and N_2O	$E_d = N * VMT * EF / 1{,}000 * 0.001$	E_d = Emissions (metric tons/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			EF = Emission factor (g/mile)
			1,000 = Conversion from g to kg
			0.001 = Conversion from kg to metric tons
		$E_m = E_d * D$	E_m = Emissions (metric tons/month)
			E_d = Emissions (metric tons/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
Onsite and Offsite Fugitive PM_{10} and $PM_{2.5}$ from Grading	PM_{10} and $PM_{2.5}$	$E_d = EF \times A / W \times 43{,}560 / 5{,}280 / D$	E_d = Emissions (lbs/day)
			EF = Fugitive PM_{10} and $PM_{2.5}$ emission factors (lbs/mile), calculated per Section 4.3 of Appendix A of the CalEEMod User's Guide.
			A = Site disturbed (acres/month)
			W = Grading equipment blade width (ft)
			43,560 = Conversion factor from square feet to acres
			5,280 = Conversion factor from feet to miles
			D = Number of construction days per month
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons
Onsite Fugitive PM_{10} and $PM_{2.5}$ from Bulldozing	PM_{10} and $PM_{2.5}$	$E_d = EF \times H / D$	E_d = Emissions (lbs/day)
			EF = Fugitive PM_{10} and $PM_{2.5}$ emission factors (lbs/mile), calculated per Section 4.3 of Appendix A of the CalEEMod User's Guide.
			H = Hours per month for all bulldozers
			D = Number of construction days per month
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons

Table 5.1A.24R Number of Onsite Construction Equipment and Motor Vehicles

Number of Onsite Equipment for Block 2 Construction

Onsite Equipment	Number per Month [a]																										
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Water Truck	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Excavator	1	2	2	2	2	2	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grader	1	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Cranes [b]	0	0	0	0	2	2	4	4	4	5	4	4	6	5	4	4	4	4	2	2	2	2	2	2	2	0	0	0
Tractor/Loader/Backhoe [c]	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Rubber Tired Loader [d]	0	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
Crawler Tractor [e]	1	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressor	0	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1
Forklift	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1
Roller [f]	1	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Other General Industrial Equipment [g]	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

[a] Equipment counts taken from 'HBEP Equipment Usage 1.21.13.xls'.

[b] Numbers presented for Cranes includes the equipment counts for the 75 Ton Hydraulic Crane, the 35 Ton Hydraulic Crane, the Heavy Lift Lattice Boom Main Crane, the Heavy Lift Lattice Boom Tail Crane, and the Heavy Lift Gantry Crane.

[c] Numbers presented for Tractor/Loader/Backhoe includes the equipment counts for the Backhoe.

[d] Numbers presented for Rubber Tired Loader includes the equipment counts for the Front End Loader.

[e] Numbers presented for Crawler Tractor includes the equipment counts for the Dozer

[f] Numbers presented for Rollder includes the equipment counts for the Compactor.

[g] Numbers presented for Other General Industrial Equipment includes the equipment counts for the Pile Driver.

Number of Onsite Motor Vehicles for Block 2 Construction

Vehicle Type	Number per Month [a]																										
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Onsite Pick-up Truck	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Onsite Stake Truck	1	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Onsite Dump Truck	1	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0

Notes:

[a] Vehicle counts taken from 'HBEP Equipment Usage 1.21.13.xls'.

Huntington Beach Energy Project
Construction Emission Estimates - Block 2 Construction
April 2014

Table 5.1A.25R Construction Equipment Exhaust Criteria Pollutant Emission Factors

Construction Equipment Emission Factors for Block 2 Construction

Equipment [a]	Percent Usage [b]	Hours per Month [c]	Horsepower [d]	Load Factor [d]	Emission Factors (g/bhp-hr) [e]												Fuel Consumption (gallons/hour) [f]
					CO	VOC	NO_X 2018	NO_X 2019	NO_X 2020	SO_X	PM_{10} 2018	PM_{10} 2019	PM_{10} 2020	$PM_{2.5}$ 2018	$PM_{2.5}$ 2019	$PM_{2.5}$ 2020	
Water Truck [g]	50%	115	381	0.57	1.164	0.345	2.025	1.779	1.561	0.005	0.073	0.064	0.057	0.073	0.064	0.057	12.32
Excavator	85%	196	157	0.57	3.362	0.417	2.567	2.242	1.958	0.006	0.133	0.114	0.098	0.133	0.114	0.098	5.11
Grader	80%	184	162	0.61	3.345	0.485	3.211	2.881	2.578	0.006	0.176	0.157	0.139	0.176	0.157	0.139	5.65
Cranes	65%	150	208	0.43	1.277	0.398	3.125	2.807	2.507	0.006	0.107	0.096	0.086	0.107	0.096	0.086	5.08
Tractor/Loader/Backhoe	55%	127	75	0.55	3.764	0.477	3.226	2.951	2.709	0.006	0.201	0.169	0.141	0.201	0.169	0.141	2.36
Rubber Tired Loader	55%	127	87	0.54	3.873	0.636	3.975	3.677	3.404	0.006	0.296	0.261	0.228	0.296	0.261	0.228	2.69
Crawler Tractor	80%	184	82	0.64	4.040	0.816	4.826	4.517	4.228	0.006	0.386	0.352	0.320	0.386	0.352	0.320	3.01
Air Compressor	80%	184	78	0.48	3.744	0.603	4.050	3.706	3.400	0.006	0.304	0.260	0.224	0.304	0.260	0.224	2.14
Forklift	75%	173	149	0.30	3.365	0.396	2.338	2.046	1.782	0.006	0.124	0.105	0.087	0.124	0.105	0.087	2.55
Roller	60%	138	84	0.56	3.775	0.655	4.249	3.944	3.66	0.006	0.328	0.293	0.260	0.328	0.293	0.260	2.69
Other General Industrial Equipment	70%	161	150	0.51	3.353	0.488	3.277	2.915	2.591	0.006	0.178	0.156	0.138	0.178	0.156	0.138	4.37

Notes:

[a] Assumed all equipment is fired with diesel fuel, per Section 4.2 of Appendix A of the CalEEMod User's Guide.

[b] Percent Usage assumed typical of power plant construction.

[c] Hours per month calculated based on the following schedule, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Work hours per day: 10
Work days per month: 23

[d] Construction equipment horsepower and load factor taken from Table 3.3 of Appendix D of the CalEEMod User's Guide.

[e] Construction equipment emission factors taken from Table 3.4 of Appendix D of the CalEEMod User's Guide. The emission factors for the year 2018 were used for the construction equipment exhaust emission calculations for CO, VOC, and SOx. The emission factors for year 2018, 2019 and 2020 were used for NOx, PM10, and PM2.5.

[f] Fuel consumption based on consumption in the OFFROAD2007 model for the SCAB in the year 2018; value estimated by dividing the reported consumption (gallons/day) by the reported activity (hours/day).

[g] Horsepower, load factor, and emission factors for Off-Highway Trucks were assumed representative of Water Trucks.

Table 5.1A.26R Onsite and Offsite Motor Vehicle Criteria Pollutant Emission Factors

Vehicle Emission Factors for Block 2 Construction

Vehicle Type	Vehicle Class [a]	Exhaust Emission Factors (g/mile) [b]												Paved Road Emission Factors (g/mile) [c]		Fuel Economy (mpg) [b]
		CO	VOC	SO_X	NO_X 2018	NO_X 2019	NO_X 2020	PM_{10} 2018	PM_{10} 2019	PM_{10} 2020	$PM_{2.5}$ 2018	$PM_{2.5}$ 2019	$PM_{2.5}$ 2020	PM_{10}	$PM_{2.5}$	
Onsite Pick-up Truck	Light-duty Truck	2.934	0.182	0.011	0.278	0.258	0.239	0.126	0.126	0.127	0.104	0.105	0.105	N/A	N/A	7.455
Onsite Stake Truck	Heavy-duty Diesel	9.010	5.097	0.037	14.934	13.495	12.285	0.709	0.597	0.506	0.614	0.512	0.427	N/A	N/A	2.621
Onsite Dump Truck	Heavy-duty Diesel	9.010	5.097	0.037	14.934	13.495	12.285	0.709	0.597	0.506	0.614	0.512	0.427	N/A	N/A	2.621
Offsite Delivery Trucks	Heavy-duty Diesel	1.886	0.384	0.017	5.193	4.648	4.193	0.248	0.229	0.214	0.190	0.173	0.159	0.300	0.075	5.749
Material Hauling Trucks	Heavy/Medium-duty Diesel	1.513	0.251	0.016	4.046	3.632	3.278	0.206	0.194	0.184	0.163	0.142	0.143	0.300	0.075	6.224
Construction Worker Commute	Light-duty Auto/Truck	1.229	0.021	0.003	0.114	0.104	0.097	0.033	0.033	0.033	0.018	0.018	0.018	0.300	0.075	27.419

Notes:

[a] The vehicle classes are represented as follows:

Light-duty Truck: Assumed to be an average of LDT1, All and LDT2, All values.
Heavy-duty Diesel: Assumed to be 100% HHD DSL values, as confirmed in Section 4.5 of Appendix A of the CalEEMod User's Guide.
Heavy/Medium-duty Diesel: 50% HHD DSL and 50% MHD DSL values, per Section 4.5 of Appendix A of the CalEEMod User's Guide.
Light-duty Auto/Truck: 50% LDA, All; 25% LDT1, All; and 25% LDT2, All values, per Section 4.5 of Appendix A of the CalEEMod User's Guide.

[b] Exhaust emission factors and fuel economy from EMFAC2007 for the South Coast Air Basin, calendar year 2018 for CO, VOC, and SOx. Calendar year 2018, 2019 and 2020 were used for NOx, PM10, and PM2.5. A speed of 5 mph was assumed for onsite vehicles; a speed of 40 mph was assumed for offsite vehicles and worker commutes, which is consistent with the CalEEMod defaults. An average temperature of 68°F and humidity of 55% were used per Table B-1 of CT-EMFAC: A Computer Model to Estimate Transportation Project Emissions.

[c] Paved road emission factors calculated using CalEEMod methodology, as described below.

Derivation of Paved Road Emission Factors

Vehicles on Paved Roads

Parameter	PM_{10}	$PM_{2.5}$
Average Weight [a]	2.4	2.4
k [b]	1.0	0.25
sL [a]	0.1	0.1
Emission Factor (g/mile) [c]	0.300	0.075

Notes:

[a] Average Weight and sL taken as the default value from CalEEMod.

[b] k taken from Table 13.2.1-1 of Section 13.2.1 of AP-42.

[c] Emission factor calculated using Equation 1 from Section 13.2.1 of AP-42:

Emission Factor (g/mile) = k (g/mile) x $[sL\ (g/m^2)]^{0.91}$ x $[\text{Average Weight (tons)}]^{1.02}$

Huntington Beach Energy Project
Construction Emission Estimates - Block 2 Construction
April 2014

Table 5.1A.27R Onsite and Offsite Greenhouse Gas Emission Factors

Greenhouse Gas Emission Factors for Block 2 Construction

Fuel / Category Type	Emission Factor	Emission Factor Units	Emission Factor Source
CO_2 Emission Factors			
Gasoline	8.78	kg CO_2/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.1, May 2008 as updated through January 2012.
Diesel	10.21	kg CO_2/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.1, May 2008 as updated through January 2012.
N_2O Emission Factors			
Gasoline Passenger Car Model Year 2009 [a]	0.0036	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Gasoline Light-duty Truck Model Year 2009 [a]	0.0066	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Heavy-duty Truck Model Year 1960 - 2009 [a]	0.0048	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Off-road Vehicle	0.26	g N_2O/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.7, May 2008 as updated through January 2012.
CH_4 Emission Factors			
Gasoline Passenger Car Model Year 2009 [a]	0.0173	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Gasoline Light-duty Truck Model Year 2009 [a]	0.0163	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Heavy-duty Truck Model Year 1960 - 2009 [a]	0.0051	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Off-road Vehicle	0.58	g CH_4/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.7, May 2008 as updated through January 2012.

Notes:

[a] Model Year 2009 was the most recent year of emission factors available. As a result, it was assumed representative of vehicles used for this project.

Huntington Beach Energy Project
Construction Emission Estimates - Units 1 and 2 Demolition
April 2014

Table 5.1A.28R Onsite Construction Equipment Exhaust Emissions

Construction Equipment CO Emissions from Units 1 & 2 Demolition

	CO Emisisons (lbs/month)																							
Onsite Equipment	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Water Truck	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55
Cranes	109.30	109.30	109.30	109.30	109.30	109.30	72.87	72.87	72.87	72.87	72.87	72.87	72.87	72.87	72.87	72.87	109.30	109.30	109.30	109.30	109.30	109.30	109.30	109.30
Rubber Tired Loader	50.26	50.26	50.26	50.26	50.26	50.26	50.26	50.26	50.26	50.26	50.26	50.26	50.26	50.26	50.26	50.26	100.52	100.52	100.52	100.52	100.52	100.52	100.52	100.52
Air Compressor	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33
Forklift	57.12	57.12	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23
Excavator	259.27	259.27	388.90	388.90	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53
Onsite Total (lbs/month)	**650.82**	**650.82**	**837.57**	**837.57**	**967.20**	**967.20**	**930.77**	**930.77**	**930.77**	**930.77**	**930.77**	**930.77**	**930.77**	**930.77**	**930.77**	**930.77**	**1,017.46**	**1,017.46**	**1,017.46**	**1,017.46**	**1,017.46**	**1,017.46**	**1,017.46**	**1,017.46**
Onsite Total (lbs/day) [a]	**28.30**	**28.30**	**36.42**	**36.42**	**42.05**	**42.05**	**40.47**	**40.47**	**40.47**	**40.47**	**40.47**	**40.47**	**40.47**	**40.47**	**40.47**	**40.47**	**44.24**	**44.24**	**44.24**	**44.24**	**44.24**	**44.24**	**44.24**	**44.24**
Onsite Total (tons/year)	**5.93**																							

Construction Equipment VOC Emissions from Units 1 & 2 Demolition

	VOC Emisisons (lbs/month)																							
Onsite Equipment	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Water Truck	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07
Cranes	31.48	31.48	31.48	31.48	31.48	31.48	20.99	20.99	20.99	20.99	20.99	20.99	20.99	20.99	20.99	20.99	31.48	31.48	31.48	31.48	31.48	31.48	31.48	31.48
Rubber Tired Loader	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10	14.20	14.20	14.20	14.20	14.20	14.20	14.20	14.20
Air Compressor	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85
Forklift	5.75	5.75	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49
Excavator	27.38	27.38	41.08	41.08	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77
Onsite Total (lbs/month)	**103.64**	**103.64**	**123.07**	**123.07**	**136.77**	**136.77**	**126.27**	**126.27**	**126.27**	**126.27**	**126.27**	**126.27**	**126.27**	**126.27**	**126.27**	**126.27**	**143.87**	**143.87**	**143.87**	**143.87**	**143.87**	**143.87**	**143.87**	**143.87**
Onsite Total (lbs/day) [a]	**4.51**	**4.51**	**5.35**	**5.35**	**5.95**	**5.95**	**5.49**	**5.49**	**5.49**	**5.49**	**5.49**	**5.49**	**5.49**	**5.49**	**5.49**	**5.49**	**6.26**	**6.26**	**6.26**	**6.26**	**6.26**	**6.26**	**6.26**	**6.26**
Onsite Total (tons/year)	**0.83**																							

Construction Equipment NOx Emissions from Units 1 & 2 Demolition

	NOx Emissions (lbs/month)																							
Onsite Equipment	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Water Truck	85.95	85.95	85.95	75.15	75.15	75.15	75.15	75.15	75.15	75.15	75.15	75.15	75.15	75.15	75.15	65.74	65.74	65.74	65.74	65.74	65.74	65.74	65.74	65.74
Cranes	221.71	221.71	221.71	197.30	197.30	197.30	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53	116.67	175.01	175.01	175.01	175.01	175.01	175.01	175.01	175.01
Rubber Tired Loader	44.60	44.60	44.60	41.34	41.34	41.34	41.34	41.34	41.34	41.34	41.34	41.34	41.34	41.34	41.34	38.38	76.75	76.75	76.75	76.75	76.75	76.75	76.75	76.75
Air Compressor	103.27	103.27	103.27	93.64	93.64	93.64	93.64	93.64	93.64	93.64	93.64	93.64	93.64	93.64	93.64	86.39	86.39	86.39	86.39	86.39	86.39	86.39	86.39	86.39
Forklift	30.29	30.29	60.58	51.27	51.27	51.27	51.27	51.27	51.27	51.27	51.27	51.27	51.27	51.27	51.27	43.55	43.55	43.55	43.55	43.55	43.55	43.55	43.55	43.55
Excavator	151.04	151.04	226.56	197.86	263.82	263.82	263.82	263.82	263.82	263.82	263.82	263.82	263.82	263.82	263.82	230.19	230.19	230.19	230.19	230.19	230.19	230.19	230.19	230.19
Onsite Total (lbs/month)	**636.86**	**636.86**	**742.67**	**656.57**	**722.52**	**722.52**	**656.75**	**656.75**	**656.75**	**656.75**	**656.75**	**656.75**	**656.75**	**656.75**	**656.75**	**580.91**	**677.62**	**677.62**	**677.62**	**677.62**	**677.62**	**677.62**	**677.62**	**677.62**
Onsite Total (lbs/day) [a]	**27.69**	**27.69**	**32.29**	**28.55**	**31.41**	**31.41**	**28.55**	**28.55**	**28.55**	**28.55**	**28.55**	**28.55**	**28.55**	**28.55**	**28.55**	**25.26**	**29.46**	**29.46**	**29.46**	**29.46**	**29.46**	**29.46**	**29.46**	**29.46**
Onsite Total (tons/year)	**4.05**																							

Construction Equipment SOx Emissions from Units 1 & 2 Demolition

	SOx Emissions (lbs/month)																							
Onsite Equipment	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Water Truck	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Cranes	0.53	0.53	0.53	0.53	0.53	0.53	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
Rubber Tired Loader	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Air Compressor	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Forklift	0.10	0.10	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Excavator	0.46	0.46	0.69	0.69	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Onsite Total (lbs/month)	**1.63**	**1.63**	**1.97**	**1.97**	**2.20**	**2.20**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.28**	**2.28**	**2.28**	**2.28**	**2.28**	**2.28**	**2.28**	**2.28**
Onsite Total (lbs/day) [a]	**0.07**	**0.07**	**0.09**	**0.09**	**0.10**	**0.10**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**
Onsite Total (tons/year)	**0.01**																							

Table 5.1A.28R Onsite Construction Equipment Exhaust Emissions

Construction Equipment PM_{10} Emissions from Units 1 & 2 Demolition

	PM_{10} Emissions (lbs/month)																							
Onsite Equipment	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Water Truck	3.14	3.14	3.14	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37
Cranes	7.61	7.61	7.61	6.81	6.81	6.81	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01
Rubber Tired Loader	2.99	2.99	2.99	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.24	4.48	4.48	4.48	4.48	4.48	4.48	4.48	4.48
Air Compressor	6.80	6.80	6.80	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01
Forklift	1.48	1.48	2.96	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84
Excavator	7.56	7.56	11.34	9.84	13.11	13.11	13.11	13.11	13.11	13.11	13.11	13.11	13.11	13.11	13.11	11.26	11.26	11.26	11.26	11.26	11.26	11.26	11.26	11.26
Onsite Total (lbs/month)	**29.57**	**29.57**	**34.83**	**30.11**	**33.39**	**33.39**	**31.12**	**31.12**	**31.12**	**31.12**	**31.12**	**31.12**	**31.12**	**31.12**	**31.12**	**26.73**	**30.97**	**30.97**	**30.97**	**30.97**	**30.97**	**30.97**	**30.97**	**30.97**
Onsite Total (lbs/day) [a]	**1.29**	**1.29**	**1.51**	**1.31**	**1.45**	**1.45**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.16**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**
Onsite Total (tons/year)	**0.19**																							

Construction Equipment $PM_{2.5}$ Emissions from Units 1 & 2 Demolition

	$PM_{2.5}$ Emissions (lbs/month)																							
Onsite Equipment	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Water Truck	3.14	3.14	3.14	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37
Cranes	7.61	7.61	7.61	6.81	6.81	6.81	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01
Rubber Tired Loader	2.99	2.99	2.99	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.24	4.48	4.48	4.48	4.48	4.48	4.48	4.48	4.48
Air Compressor	6.80	6.80	6.80	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01
Forklift	1.48	1.48	2.96	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84
Excavator	7.56	7.56	11.34	9.84	13.11	13.11	13.11	13.11	13.11	13.11	13.11	13.11	13.11	13.11	13.11	11.26	11.26	11.26	11.26	11.26	11.26	11.26	11.26	11.26
Onsite Total (lbs/month)	**29.57**	**29.57**	**34.83**	**30.11**	**33.39**	**33.39**	**31.12**	**31.12**	**31.12**	**31.12**	**31.12**	**31.12**	**31.12**	**31.12**	**31.12**	**26.73**	**30.97**	**30.97**	**30.97**	**30.97**	**30.97**	**30.97**	**30.97**	**30.97**
Onsite Total (lbs/day) [a]	**1.29**	**1.29**	**1.51**	**1.31**	**1.45**	**1.45**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.16**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**
Onsite Total (tons/year)	**0.19**																							

Construction Equipment CO_2 Emissions from Units 1 & 2 Demolition

	CO_2 Emissions (metric tons/month)																							
Onsite Equipment	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Water Truck	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47
Cranes	23.26	23.26	23.26	23.26	23.26	23.26	15.51	15.51	15.51	15.51	15.51	15.51	15.51	15.51	15.51	15.51	23.26	23.26	23.26	23.26	23.26	23.26	23.26	23.26
Rubber Tired Loader	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95
Air Compressor	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04
Forklift	4.49	4.49	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98
Excavator	20.40	20.40	30.60	30.60	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80
Onsite Total (metric tons/month)	**74.13**	**74.13**	**88.82**	**88.82**	**99.02**	**99.02**	**91.27**	**91.27**	**91.27**	**91.27**	**91.27**	**91.27**	**91.27**	**91.27**	**91.27**	**91.27**	**102.50**	**102.50**	**102.50**	**102.50**	**102.50**	**102.50**	**102.50**	**102.50**
Onsite Total (metric tons/day) [a]	**3.22**	**3.22**	**3.86**	**3.86**	**4.31**	**4.31**	**3.97**	**3.97**	**3.97**	**3.97**	**3.97**	**3.97**	**3.97**	**3.97**	**3.97**	**3.97**	**4.46**	**4.46**	**4.46**	**4.46**	**4.46**	**4.46**	**4.46**	**4.46**
Onsite Total (metric tons/year)	**1,185.07**																							

Construction Equipment N_2O Emissions from Units 1 & 2 Demolition

	N_2O Emissions (metric tons/month)																							
Onsite Equipment	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Water Truck	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004
Cranes	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
Rubber Tired Loader	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Air Compressor	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Forklift	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Excavator	0.0005	0.0005	0.0008	0.0008	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
Onsite Total (metric tons/month)	**0.0019**	**0.0019**	**0.0023**	**0.0023**	**0.0025**	**0.0025**	**0.0023**	**0.0023**	**0.0023**	**0.0023**	**0.0023**	**0.0023**	**0.0023**	**0.0023**	**0.0023**	**0.0023**	**0.0026**	**0.0026**	**0.0026**	**0.0026**	**0.0026**	**0.0026**	**0.0026**	**0.0026**
Onsite Total (metric tons/day) [a]	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**
Onsite Total (metric tons/year)	**0.0302**																							

Huntington Beach Energy Project
Construction Emission Estimates - Units 1 and 2 Demolition
April 2014

Table 5.1A.28R Onsite Construction Equipment Exhaust Emissions

Construction Equipment CH_4 Emissions from Units 1 & 2 Demolition

	CH_4 Emissions (metric tons/month)																							
Onsite Equipment	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Water Truck	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
Cranes	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013
Rubber Tired Loader	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004
Air Compressor	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Forklift	0.0003	0.0003	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Excavator	0.0012	0.0012	0.0017	0.0017	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023
Onsite Total (metric tons/month)	**0.0042**	**0.0042**	**0.0050**	**0.0050**	**0.0056**	**0.0056**	**0.0052**	**0.0052**	**0.0052**	**0.0052**	**0.0052**	**0.0052**	**0.0052**	**0.0052**	**0.0052**	**0.0052**	**0.0058**	**0.0058**	**0.0058**	**0.0058**	**0.0058**	**0.0058**	**0.0058**	**0.0058**
Onsite Total (metric tons/day) [a]	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0003**	**0.0003**	**0.0003**	**0.0003**	**0.0003**	**0.0003**	**0.0003**	**0.0003**
Onsite Total (metric tons/year)	**0.0673**																							

Notes:

[a] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls', the days per month are as follows: 23

Huntington Beach Energy Project
Construction Emission Estimates - Units 1 and 2 Demolition
April 2014

Table 5.1A.29R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle CO Emissions from Units 1 & 2 Demolition

	CO Emissions (lbs/day)																						
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Onsite Stake Truck	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Onsite Dump Truck	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Onsite Total (lbs/day)	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**
	CO Emissions (lbs/month) [a]																						
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Onsite Stake Truck	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Onsite Dump Truck	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
Onsite Total (lbs/month)	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**
Onsite Total (tons/year)	**0.01**																							

Onsite Construction Vehicle VOC Emissions from Units 1 & 2 Demolition

	VOC Emisisons (lbs/day)																						
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Onsite Stake Truck	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
Onsite Dump Truck	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
Onsite Total (lbs/day)	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**
	VOC Emissions (lbs/month) [a]																						
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Onsite Stake Truck	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Onsite Dump Truck	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Onsite Total (lbs/month)	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**
Onsite Total (tons/year)	**0.00**																							

Onsite Construction Vehicle SOx Emissions from Units 1 & 2 Demolition

	SOx Emissions (lbs/day)																						
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
Onsite Stake Truck	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016
Onsite Dump Truck	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
Onsite Total (lbs/day)	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**
	SOx Emissions (lbs/month) [a]																						
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011
Onsite Stake Truck	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038
Onsite Dump Truck	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019
Onsite Total (lbs/month)	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**
Onsite Total (tons/year)	**0.0000**																							

Onsite Construction Vehicle NOx Emissions from Units 1 & 2 Demolition

	NOx Emissions (lbs/day)																						
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Onsite Stake Truck	0.054	0.054	0.054	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
Onsite Dump Truck	0.027	0.027	0.027	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
Onsite Total (lbs/day)	**0.082**	**0.082**	**0.082**	**0.075**	**0.075**	**0.075**	**0.075**	**0.075**	**0.075**	**0.075**	**0.075**	**0.075**	**0.075**	**0.075**	**0.075**	**0.070**	**0.070**	**0.070**	**0.070**	**0.070**	**0.070**	**0.070**	**0.070**	**0.070**
	NOx Emissions (lbs/month) [a]																						
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.024	0.024	0.024	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
Onsite Stake Truck	1.246	1.246	1.246	1.140	1.140	1.140	1.140	1.140	1.140	1.140	1.140	1.140	1.140	1.140	1.140	1.052	1.052	1.052	1.052	1.052	1.052	1.052	1.052	1.052
Onsite Dump Truck	0.623	0.623	0.623	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.526	0.526	0.526	0.526	0.526	0.526	0.526	0.526	0.526
Onsite Total (lbs/month)	**1.893**	**1.893**	**1.893**	**1.733**	**1.733**	**1.733**	**1.733**	**1.733**	**1.733**	**1.733**	**1.733**	**1.733**	**1.733**	**1.733**	**1.733**	**1.599**	**1.599**	**1.599**	**1.599**	**1.599**	**1.599**	**1.599**	**1.599**	**1.599**
Onsite Total (tons/year)	**0.011**																							

Onsite Construction Vehicle PM_{10} Emissions from Units 1 & 2 Demolition

	PM_{10} Emissions (lbs/day)																						
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
Onsite Stake Truck	0.0022	0.0022	0.0022	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
Onsite Dump Truck	0.0011	0.0011	0.0011	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
Onsite Total (lbs/day)	**0.0039**	**0.0039**	**0.0039**	**0.0034**	**0.0034**	**0.0034**	**0.0034**	**0.0034**	**0.0034**	**0.0034**	**0.0034**	**0.0034**	**0.0034**	**0.0034**	**0.0034**	**0.0030**	**0.0030**	**0.0030**	**0.0030**	**0.0030**	**0.0030**	**0.0030**	**0.0030**	**0.0030**
	PM_{10} Emissions (lbs/month) [a]																						
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
Onsite Stake Truck	0.051	0.051	0.051	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
Onsite Dump Truck	0.026	0.026	0.026	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
Onsite Total (lbs/month)	**0.090**	**0.090**	**0.090**	**0.078**	**0.078**	**0.078**	**0.078**	**0.078**	**0.078**	**0.078**	**0.078**	**0.078**	**0.078**	**0.078**	**0.078**	**0.069**	**0.069**	**0.069**	**0.069**	**0.069**	**0.069**	**0.069**	**0.069**	**0.069**
Onsite Total (tons/year)	**0.000**																							

Table 5.1A.29R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle $PM_{2.5}$ Emissions from Units 1 & 2 Demolition

	$PM_{2.5}$ Emissions (lbs/day)																						
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Onsite Stake Truck	0.0019	0.0019	0.0019	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013
Onsite Dump Truck	0.0009	0.0009	0.0009	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
Onsite Total (lbs/day)	**0.0033**	**0.0033**	**0.0033**	**0.0028**	**0.0028**	**0.0028**	**0.0028**	**0.0028**	**0.0028**	**0.0028**	**0.0028**	**0.0028**	**0.0028**	**0.0028**	**0.0028**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**

	$PM_{2.5}$ Emissions (lbs/month) [a]																						
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Onsite Stake Truck	0.043	0.043	0.043	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
Onsite Dump Truck	0.022	0.022	0.022	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Onsite Total (lbs/month)	**0.076**	**0.076**	**0.076**	**0.065**	**0.065**	**0.065**	**0.065**	**0.065**	**0.065**	**0.065**	**0.065**	**0.065**	**0.065**	**0.065**	**0.065**	**0.057**	**0.057**	**0.057**	**0.057**	**0.057**	**0.057**	**0.057**	**0.057**	**0.057**
Onsite Total (tons/year)	**0.000**																							

Onsite Construction Vehicle CO_2 Emissions from Units 1 & 2 Demolition

	CO_2 Emissions (metric tons/day)																						
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Onsite Stake Truck	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Onsite Dump Truck	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Onsite Total (metric tons/day)	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**

	CO_2 Emissions (metric tons/month) [a]																						
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054
Onsite Stake Truck	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179
Onsite Dump Truck	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090
Onsite Total (metric tons/month)	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**
Onsite Total (metric tons/year)	**3.875**																							

Onsite Construction Vehicle N_2O Emissions from Units 1 & 2 Demolition

	N_2O Emissions (metric tons/day)																						
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013
Onsite Stake Truck	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010
Onsite Dump Truck	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005
Onsite Total (metric tons/day)	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**

	N_2O Emissions (metric tons/month) [a]																						
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030
Onsite Stake Truck	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022
Onsite Dump Truck	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011
Onsite Total (metric tons/month)	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**
Onsite Total (metric tons/year)	**0.00000762**																							

Onsite Construction Vehicle CH_4 Emissions from Units 1 & 2 Demolition

	CH_4 Emissions (metric tons/day)																						
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033
Onsite Stake Truck	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010
Onsite Dump Truck	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005
Onsite Total (metric tons/day)	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**

	CH_4 Emissions (metric tons/month) [a]																						
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007
Onsite Stake Truck	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002
Onsite Dump Truck	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001
Onsite Total (metric tons/month)	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**
Onsite Total (metric tons/year)	**0.0000132**																							

Notes:

[a] The days per month are per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls', as presented on the 'Onsite Fugitive Dust' tab.

Huntington Beach Energy Project
Construction Emission Estimates - Units 1 and 2 Demolition
April 2014

Table 5.1A.30R Onsite Demolition Fugitive Dust Emissions

Demolition Activity Levels for Units 1 & 2 Demolition

	Monthly Activity Levels																							
Source	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Debris Generated from Mechanical Dismemberment (tons) [a]	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83

[a] Debris generated from Table 5.14-3, Wastes Generated during Demolition of HBGS Units 1 & 2 or HBGS Units 3 & 4. Only materials generated from demolition that may generate fugitive dust were included. The monthly quantities were determined as follows:

Scrap Materials	16,000	lbs/week	which equals	32.00	tons/month
Scrap Metals	20,000	tons	which equals	833.33	tons/month
Concrete	1,500	tons	which equals	62.50	tons/month
Asphalt	80	tons	which equals	3.33	tons/month
Asbestos Waste	1,000	tons	which equals	41.67	tons/month

The above calculations are based on the following assumptions:

Demolition will last	24	months
The construction schedule allows for	4	weeks/month

Onsite Construction Vehicle Fugitive PM_{10} Emissions from Units 1 & 2 Demolition

	Fugitive PM_{10} Emissions (lbs/day) [a]																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Onsite Stake Truck	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Onsite Dump Truck	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Onsite Total (lbs/day)	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**
	Fugitive PM_{10} Emissions (lbs/month) [a]																							
Vehicle Type	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**	**91**	**92**	**93**	**94**	**95**	**96**
Onsite Pick-up Truck	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95
Onsite Stake Truck	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95
Onsite Dump Truck	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98
Onsite Total (lbs/month)	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**
Onsite Total (tons/year)	**0.24**																							

Notes:
[a] Emissions based on highest (controlled) unpaved road emission factor for PM_{10}.

Onsite Construction Vehicle Fugitive $PM_{2.5}$ Emissions from Units 1 & 2 Demolition

	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a]																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Onsite Stake Truck	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Onsite Dump Truck	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Onsite Total (lbs/day)	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**
	Fugitive $PM_{2.5}$ Emissions (lbs/month) [a]																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
Onsite Stake Truck	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
Onsite Dump Truck	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Onsite Total (lbs/month)	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**
Onsite Total (tons/year)	**0.02**																							

Notes:
[a] Emissions based on highest (controlled) unpaved road emission factor for $PM_{2.5}$.

Onsite Demolition Fugitive PM_{10} Emissions from Units 1 & 2 Demolition

	Fugitive PM_{10} Emissions (lbs/day) [a, b]																							
Demolition Activity	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Dismemberment	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Debris Loading [c]	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
Onsite Total (lbs/day)	**0.58**	**0.58**	**0.58**	**0.58**	**0.58**	**0.58**	**0.58**	**0.58**	**0.58**	**0.58**	**0.58**	**0.58**	**0.58**	**0.58**	**0.58**	**0.58**	**0.58**	**0.58**	**0.58**	**0.58**	**0.58**	**0.58**	**0.58**	**0.58**
	Fugitive PM_{10} Emissions (lbs/month) [a, b]																							
Demolition Activity	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Dismemberment	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68
Debris Loading [c]	12.64	12.64	12.64	12.64	12.64	12.64	12.64	12.64	12.64	12.64	12.64	12.64	12.64	12.64	12.64	12.64	12.64	12.64	12.64	12.64	12.64	12.64	12.64	12.64
Onsite Total (lbs/month)	**13.32**	**13.32**	**13.32**	**13.32**	**13.32**	**13.32**	**13.32**	**13.32**	**13.32**	**13.32**	**13.32**	**13.32**	**13.32**	**13.32**	**13.32**	**13.32**	**13.32**	**13.32**	**13.32**	**13.32**	**13.32**	**13.32**	**13.32**	**13.32**
Onsite Total (tons/year)	**0.08**																							

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Emissions based on the highest (controlled) emission factor for PM_{10}.
[c] Assume that all debris generated per month from dismemberment is loaded in the same month that it is generated.

Table 5.1A.30R Onsite Demolition Fugitive Dust Emissions

Onsite Demolition Fugitive $PM_{2.5}$ Emissions from Units 1 & 2 Demolition

	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a, b]																							
Demolition Activity	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Dismemberment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Debris Loading [c]	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Onsite Total (lbs/day)	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**
	Fugitive $PM_{2.5}$ Emissions (lbs/month) [a, b]																							
Demolition Activity	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Dismemberment	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Debris Loading [c]	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91
Onsite Total (lbs/month)	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**
Onsite Total (tons/year)	**0.01**																							

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Emissions based on the highest (controlled) emission factor for $PM_{2.5}$.
[c] Assume that all debris generated per month from dismemberment is loaded in the same month that it is generated.

Onsite Construction Vehicle Activity for Units 1 & 2 Demolition

Vehicle Type	Miles/Day [a]	Working Days per Month [b]
Onsite Pick-up Truck	2	23
Onsite Stake Truck	2	23
Onsite Dump Truck	1	23

Notes:
[a] Estimated based on the dimensions of the project site.
[b] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Fugitive Dust Emission Factors for Unpaved Roads

Vehicles on Unpaved Surfaces at Industrial Sites

Parameter	PM_{10}	$PM_{2.5}$
Mean Vehicle Weight [a]	16.5	16.5
Silt Content [b]	8.5	8.5
k [c]	1.5	0.15
a [c]	0.9	0.9
b [c]	0.45	0.45
P [d]	31	31
Emission Factor (Uncontrolled, lbs/mile) [e]	2.17	0.22
Reduction from Applying Soil Stabilizers [f]	84%	84%
Emission Factor (Controlled, lbs/mile)	0.35	0.03

Notes:
[a] Mean vehicle weight assumes that medium/heavy duty trucks weigh 16.5 tons.
[b] Silt content taken from Table 13.2.2-1 of Section 13.2.2 of AP-42 for a Construction Site, Scraper Route; this value is consistent with the CalEEMod defaults for the South Coast Air Basin.
[c] k, a, and b taken from Table 13.2.2-2 of Section 13.2.2 of AP-42 for industrial roads.
[d] P taken as the CalEEMod default for the Huntington Beach climate region of the South Coast Air Basin.
[e] Emission factor calculated using Equations 1a and 2 from Section 13.2.2 of AP-42:

Emission Factor (lbs/mile) = $\{k \text{ (lbs/mile)} \times [\text{Silt Content (\%)} / 12]^{a} \times [\text{Mean Vehicle Weight (tons)} / 3]^{b}\} \times [(365 - P) / 365]$

[f] Control efficiency taken from Table XI-D of the SCAQMD CEQA Handbook for Travel Over Unpaved Roads.

Fugitive Dust Emission Factors for Dismemberment

Dismemberment and Collapse of Structures

Parameter	PM_{10}	$PM_{2.5}$
k [a]	0.35	0.053
U (mph) [b]	4.9	4.9
M (%) [c]	2.0	2.0
Emission Factor (lbs/ton) [d]	0.00110	0.00017
Reduction from Watering Every 4 Hours [e]	36%	36%
Emission Factor (Controlled, lbs/ton)	0.00070	0.00011

Notes:
[a] k, the particle size multiplier, taken from Section 13.2.4.3 of AP-42 per Section 4.4 of Appendix A of the CalEEMod User's Guide.
[b] U, the mean wind speed, taken as the CalEEMod default for the South Coast Air Basin. Converted from meters/second (m/s) to miles per hour (mph).
[c] M, the material moisture content, taken from Section 4.4 of Appendix A of the CalEEMod User's Guide.
[d] Emission factor calculated using the following equation from Section 13.2.4.3 of AP-42 per Section 4.4 of Appendix A of the CalEEMod User's Guide:

Emission Factor (lbs/ton) = $k \times 0.0032 \times [U / 5]^{1.3} \times [M / 2]^{1.4}$

[e] Control efficiency taken from Table XI-A of the SCAQMD CEQA Handbook for Active Demolition and Debris Removal.

Fugitive Dust Emission Factors for Debris Loading

Loading of Debris/Building Waste

Parameter	PM_{10}	$PM_{2.5}$
k [a]	0.35	0.053
$EF_{L\text{-}TSP}$ [b]	0.058	0.058
Emission Factor (lbs/ton) [c]	0.020	0.003
Reduction from Watering Every 4 Hours [d]	36%	36%
Emission Factor (Controlled, lbs/ton)	0.013	0.002

Notes:
[a] k taken from Section 13.2.4.3 of AP-42 per Section 4.4 of Appendix A of the CalEEMod User's Guide.
[b] $EF_{L\text{-}TSP}$, taken from Section 4.4 of Appendix A of the CalEEMod User's Guide.
[c] Emission factor calculated using the following equation from Section 4.4 of Appendix A of the CalEEMod User's Guide:

Emission Factor (lbs/ton) = $k \times EF_{L\text{-}TSP}$ (lbs/ton)

[d] Control efficiency taken from Table XI-A of the SCAQMD CEQA Handbook for Active Demolition and Debris Removal.

Huntington Beach Energy Project
Construction Emission Estimates - Units 1 and 2 Demolition
April 2014

Table 5.1A.31R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle Usage During Units 1 & 2 Demolition

	Number per Day																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks [a]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Material Hauling Trucks [b]	1.00	1.00	1.00	1.00	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.50	1.50	1.50	1.00
Waste Hauling Trucks [c]	3.00	4.00	4.00	5.00	5.00	5.00	6.00	6.00	8.00	8.00	11.00	11.00	12.00	13.00	13.00	13.00	13.00	13.00	13.00	9.00	8.00	6.00	5.00	5.00
Construction Worker Commute [d]	13.00	13.00	28.00	40.00	44.00	50.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	46.00	45.00	26.00	23.00	15.00

Notes:

[a] Offsite Delivery Trucks include trucks transporting "Consumables & Supplies", as provided in 'Huntington Beach Truck Deliveries 032112.xls'.

[b] Material Hauling Trucks include trucks transporting "Contractor Mobilization", "Contractor Demobilization", and "Construction Equipment", as provided in 'Huntington Beach Truck Deliveries 032112.xls'.

[c] Waste Hauling Trucks include trucks transporting "Mechanical Equipment", "Electrical Equip. & Mtrls", "Concrete / Rebar / Rubble", and "Steel/Architectural", as provided in 'Huntington Beach Truck Deliveries 032112.xls'.

[d] Assumed 1 commute per 1 worker; number of workers taken from 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Offsite Vehicle CO Emissions from Units 1 & 2 Demolition

	CO Emissions (lbs/day)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.00
Material Hauling Trucks	0.12	0.12	0.12	0.12	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.18	0.18	0.18	0.12
Waste Hauling Trucks	0.54	0.72	0.72	0.90	0.90	0.90	1.08	1.08	1.44	1.44	1.98	1.98	2.16	2.34	2.34	2.34	2.34	2.34	2.34	1.62	1.44	1.08	0.90	0.90
Construction Worker Commute	0.67	0.67	1.44	2.05	2.26	2.56	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.36	2.31	1.33	1.18	0.77
Offsite Total (lbs/day)	**1.38**	**1.56**	**2.33**	**3.12**	**3.27**	**3.58**	**3.65**	**3.65**	**4.01**	**4.01**	**4.55**	**4.55**	**4.73**	**4.91**	**4.91**	**4.91**	**4.91**	**4.91**	**4.91**	**4.09**	**3.98**	**2.64**	**2.31**	**1.79**
	CO Emissions (lbs/month)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	0.00
Material Hauling Trucks	2.76	2.76	2.76	2.76	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	4.13	4.13	4.13	2.76
Waste Hauling Trucks	12.40	16.54	16.54	20.67	20.67	20.67	24.81	24.81	33.08	33.08	45.48	45.48	49.61	53.75	53.75	53.75	53.75	53.75	53.75	37.21	33.08	24.81	20.67	20.67
Construction Worker Commute	15.33	15.33	33.03	47.18	51.90	58.98	56.62	56.62	56.62	56.62	56.62	56.62	56.62	56.62	56.62	56.62	56.62	56.62	56.62	54.26	53.08	30.67	27.13	17.69
Offsite Total (lbs/month)	**31.70**	**35.83**	**53.52**	**71.81**	**75.15**	**82.23**	**84.01**	**84.01**	**92.28**	**92.28**	**104.68**	**104.68**	**108.81**	**112.95**	**112.95**	**112.95**	**112.95**	**112.95**	**112.95**	**94.05**	**91.49**	**60.81**	**53.14**	**41.12**
Offsite Total (tons/year)	**0.64**																							

Offsite Vehicle VOC Emissions from Units 1 & 2 Demolition

	VOC Emissions (lbs/day)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
Material Hauling Trucks	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.03	0.03	0.02
Waste Hauling Trucks	0.09	0.12	0.12	0.15	0.15	0.15	0.18	0.18	0.23	0.23	0.32	0.32	0.35	0.38	0.38	0.38	0.38	0.38	0.38	0.26	0.23	0.18	0.15	0.15
Construction Worker Commute	0.01	0.01	0.02	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.02	0.02	0.01
Offsite Total (lbs/day)	**0.13**	**0.16**	**0.17**	**0.21**	**0.20**	**0.21**	**0.23**	**0.23**	**0.29**	**0.29**	**0.38**	**0.38**	**0.41**	**0.44**	**0.44**	**0.44**	**0.44**	**0.44**	**0.44**	**0.32**	**0.31**	**0.24**	**0.20**	**0.18**
	VOC Emissions (lbs/month)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.00
Material Hauling Trucks	0.45	0.45	0.45	0.45	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.67	0.67	0.67	0.45
Waste Hauling Trucks	2.02	2.69	2.69	3.36	3.36	3.36	4.03	4.03	5.38	5.38	7.40	7.40	8.07	8.74	8.74	8.74	8.74	8.74	8.74	6.05	5.38	4.03	3.36	3.36
Construction Worker Commute	0.24	0.24	0.52	0.74	0.82	0.93	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.86	0.84	0.48	0.43	0.28
Offsite Total (lbs/month)	**2.95**	**3.63**	**3.91**	**4.80**	**4.65**	**4.76**	**5.40**	**5.40**	**6.74**	**6.74**	**8.76**	**8.76**	**9.43**	**10.10**	**10.10**	**10.10**	**10.10**	**10.10**	**10.10**	**7.38**	**7.14**	**5.44**	**4.71**	**4.09**
Offsite Total (tons/year)	**0.05**																							

Offsite Vehicle SOx Emissions from Units 1 & 2 Demolition

	SOx Emissions (lbs/day)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0000
Material Hauling Trucks	0.0014	0.0014	0.0014	0.0014	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0021	0.0021	0.0021	0.0014
Waste Hauling Trucks	0.0062	0.0082	0.0082	0.0103	0.0103	0.0103	0.0123	0.0123	0.0164	0.0164	0.0226	0.0226	0.0246	0.0267	0.0267	0.0267	0.0267	0.0267	0.0267	0.0185	0.0164	0.0123	0.0103	0.0103
Construction Worker Commute	0.0020	0.0020	0.0043	0.0062	0.0068	0.0077	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0071	0.0070	0.0040	0.0036	0.0023
Offsite Total (lbs/day)	**0.0101**	**0.0121**	**0.0144**	**0.0184**	**0.0183**	**0.0192**	**0.0210**	**0.0210**	**0.0251**	**0.0251**	**0.0312**	**0.0312**	**0.0333**	**0.0353**	**0.0353**	**0.0353**	**0.0353**	**0.0353**	**0.0353**	**0.0268**	**0.0260**	**0.0189**	**0.0164**	**0.0139**
	SOx Emissions (lbs/month)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.000
Material Hauling Trucks	0.031	0.031	0.031	0.031	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.047	0.047	0.047	0.031
Waste Hauling Trucks	0.141	0.189	0.189	0.236	0.236	0.236	0.283	0.283	0.377	0.377	0.519	0.519	0.566	0.613	0.613	0.613	0.613	0.613	0.613	0.424	0.377	0.283	0.236	0.236
Construction Worker Commute	0.046	0.046	0.100	0.142	0.157	0.178	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.164	0.160	0.093	0.082	0.053
Offsite Total (lbs/month)	**0.232**	**0.279**	**0.332**	**0.422**	**0.421**	**0.442**	**0.482**	**0.482**	**0.576**	**0.576**	**0.718**	**0.718**	**0.765**	**0.812**	**0.812**	**0.812**	**0.812**	**0.812**	**0.812**	**0.616**	**0.597**	**0.435**	**0.377**	**0.321**
Offsite Total (tons/year)	**0.004**																							

Huntington Beach Energy Project
Construction Emission Estimates - Units 1 and 2 Demolition
April 2014

Table 5.1A.31R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle NOx Emissions from Units 1 & 2 Demolition

	NOx Emissions (lbs/day)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.00
Material Hauling Trucks	0.29	0.29	0.29	0.26	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.36	0.36	0.36	0.24
Waste Hauling Trucks	1.30	1.73	1.73	1.97	1.97	1.97	2.36	2.36	3.15	3.15	4.33	4.33	4.72	5.11	5.11	4.67	4.67	4.67	4.67	3.23	2.87	2.15	1.79	1.79
Construction Worker Commute	0.06	0.06	0.13	0.17	0.19	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.77	0.77	0.77	0.77	0.73	0.72	0.42	0.37	0.24
Offsite Total (lbs/day)	**1.78**	**2.22**	**2.29**	**2.52**	**2.41**	**2.43**	**2.82**	**2.82**	**3.60**	**3.60**	**4.78**	**4.78**	**5.18**	**5.57**	**5.57**	**5.66**	**5.66**	**5.66**	**5.66**	**4.20**	**4.06**	**3.04**	**2.63**	**2.27**
	NOx Emissions (lbs/month)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	3.10	3.10	3.10	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	0.00
Material Hauling Trucks	6.65	6.65	6.65	6.03	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	2.75	2.75	2.75	2.75	2.75	8.26	8.26	8.26	5.50
Waste Hauling Trucks	29.92	39.89	39.89	45.22	45.22	45.22	54.26	54.26	72.35	72.35	99.48	99.48	108.52	117.56	117.56	107.32	107.32	107.32	107.32	74.30	66.04	49.53	41.28	41.28
Construction Worker Commute	1.38	1.38	2.97	3.93	4.33	4.91	4.72	4.72	4.72	4.72	4.72	4.72	4.72	4.72	4.72	17.64	17.64	17.64	17.64	16.90	16.54	9.55	8.45	5.51
Offsite Total (lbs/month)	**41.05**	**51.02**	**52.61**	**57.99**	**55.37**	**55.96**	**64.81**	**64.81**	**82.90**	**82.90**	**110.03**	**110.03**	**119.07**	**128.11**	**128.11**	**130.29**	**130.29**	**130.29**	**130.29**	**96.53**	**93.41**	**69.92**	**60.56**	**52.29**
Offsite Total (tons/year)	**0.69**																							

Offsite Vehicle PM_{10} Emissions from Units 1 & 2 Demolition

	PM_{10} Emissions (lbs/day) [a]																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00
Material Hauling Trucks	0.04	0.04	0.04	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.06	0.06	0.06	0.04
Waste Hauling Trucks	0.19	0.26	0.26	0.31	0.31	0.31	0.38	0.38	0.50	0.50	0.69	0.69	0.75	0.82	0.82	0.80	0.80	0.80	0.80	0.56	0.50	0.37	0.31	0.31
Construction Worker Commute	0.21	0.21	0.44	0.63	0.70	0.79	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.73	0.71	0.41	0.37	0.24
Offsite Total (lbs/day)	**0.46**	**0.52**	**0.76**	**1.01**	**1.05**	**1.14**	**1.18**	**1.18**	**1.30**	**1.30**	**1.49**	**1.49**	**1.55**	**1.62**	**1.62**	**1.60**	**1.60**	**1.60**	**1.60**	**1.32**	**1.29**	**0.86**	**0.75**	**0.59**
	PM_{10} Emissions (lbs/month) [a]																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.00
Material Hauling Trucks	0.98	0.98	0.98	0.96	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.47	0.47	0.47	0.47	0.47	1.42	1.42	1.42	0.95
Waste Hauling Trucks	4.42	5.89	5.89	7.23	7.23	7.23	8.68	8.68	11.57	11.57	15.91	15.91	17.36	18.81	18.81	18.51	18.51	18.51	18.51	12.81	11.39	8.54	7.12	7.12
Construction Worker Commute	4.74	4.74	10.22	14.60	16.06	18.25	17.52	17.52	17.52	17.52	17.52	17.52	17.52	17.52	17.52	17.53	17.53	17.53	17.53	16.80	16.44	9.50	8.40	5.48
Offsite Total (lbs/month)	**10.52**	**12.00**	**17.47**	**23.17**	**24.14**	**26.33**	**27.05**	**27.05**	**29.94**	**29.94**	**34.28**	**34.28**	**35.73**	**37.18**	**37.18**	**36.88**	**36.88**	**36.88**	**36.88**	**30.45**	**29.61**	**19.83**	**17.31**	**13.55**
Offsite Total (tons/year)	**0.21**																							

Notes:
[a] PM_{10} Emissions include emissions from exhaust and paved roads.

Offsite Vehicle $PM_{2.5}$ Emissions from Units 1 & 2 Demolition

	$PM_{2.5}$ Emissions (lbs/day) [a]																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
Material Hauling Trucks	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.03	0.03	0.02
Waste Hauling Trucks	0.09	0.12	0.12	0.14	0.14	0.14	0.17	0.17	0.22	0.22	0.31	0.31	0.33	0.36	0.36	0.35	0.35	0.35	0.35	0.24	0.21	0.16	0.13	0.13
Construction Worker Commute	0.06	0.06	0.12	0.18	0.20	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.12	0.10	0.07
Offsite Total (lbs/day)	**0.17**	**0.20**	**0.27**	**0.34**	**0.35**	**0.38**	**0.40**	**0.40**	**0.45**	**0.45**	**0.53**	**0.53**	**0.56**	**0.59**	**0.59**	**0.58**	**0.58**	**0.58**	**0.58**	**0.46**	**0.45**	**0.31**	**0.27**	**0.22**
	$PM_{2.5}$ Emissions (lbs/month) [a]																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.00
Material Hauling Trucks	0.44	0.44	0.44	0.43	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.62	0.62	0.62	0.41
Waste Hauling Trucks	1.99	2.65	2.65	3.19	3.19	3.19	3.83	3.83	5.10	5.10	7.02	7.02	7.65	8.29	8.29	8.03	8.03	8.03	8.03	5.56	4.94	3.71	3.09	3.09
Construction Worker Commute	1.33	1.33	2.86	4.09	4.50	5.11	4.91	4.91	4.91	4.91	4.91	4.91	4.91	4.91	4.91	4.91	4.91	4.91	4.91	4.70	4.60	2.66	2.35	1.53
Offsite Total (lbs/month)	**3.93**	**4.59**	**6.13**	**7.87**	**8.07**	**8.68**	**9.11**	**9.11**	**10.39**	**10.39**	**12.30**	**12.30**	**12.94**	**13.58**	**13.58**	**13.31**	**13.31**	**13.31**	**13.31**	**10.63**	**10.32**	**7.14**	**6.22**	**5.04**
Offsite Total (tons/year)	**0.07**																							

Notes:
[a] $PM_{2.5}$ Emissions include emissions from exhaust and paved roads.

Offsite Vehicle CO_2 Emissions from Units 1 & 2 Demolition

	CO_2 Emissions (metric tons/day)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.00
Material Hauling Trucks	0.07	0.07	0.07	0.07	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.10	0.10	0.10	0.07
Waste Hauling Trucks	0.30	0.39	0.39	0.49	0.49	0.49	0.59	0.59	0.79	0.79	1.08	1.08	1.18	1.28	1.28	1.28	1.28	1.28	1.28	0.89	0.79	0.59	0.49	0.49
Construction Worker Commute	0.09	0.09	0.19	0.28	0.30	0.34	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.32	0.31	0.18	0.16	0.10
Offsite Total (metric tons/day)	**0.48**	**0.57**	**0.68**	**0.86**	**0.85**	**0.90**	**0.98**	**0.98**	**1.18**	**1.18**	**1.47**	**1.47**	**1.57**	**1.67**	**1.67**	**1.67**	**1.67**	**1.67**	**1.67**	**1.26**	**1.22**	**0.89**	**0.78**	**0.66**
	CO_2 Emissions (metric tons/month)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.00
Material Hauling Trucks	1.51	1.51	1.51	1.51	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	2.26	2.26	2.26	1.51
Waste Hauling Trucks	6.79	9.06	9.06	11.32	11.32	11.32	13.58	13.58	18.11	18.11	24.90	24.90	27.17	29.43	29.43	29.43	29.43	29.43	29.43	20.38	18.11	13.58	11.32	11.32
Construction Worker Commute	2.06	2.06	4.44	6.34	6.98	7.93	7.61	7.61	7.61	7.61	7.61	7.61	7.61	7.61	7.61	7.61	7.61	7.61	7.61	7.30	7.14	4.12	3.65	2.38
Offsite Total (metric tons/month)	**10.96**	**13.22**	**15.60**	**19.77**	**19.65**	**20.60**	**22.55**	**22.55**	**27.08**	**27.08**	**33.87**	**33.87**	**36.13**	**38.40**	**38.40**	**38.40**	**38.40**	**38.40**	**38.40**	**29.02**	**28.11**	**20.57**	**17.83**	**15.21**
Offsite Total (metric tons/year)	**418.44**																							

Table 5.1A.31R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle N_2O Emissions from Units 1 & 2 Demolition

	N_2O Emissions (metric tons/day)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000000
Material Hauling Trucks	0.00000019	0.00000019	0.00000019	0.00000019	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000029	0.00000029	0.00000029	0.00000019
Waste Hauling Trucks	0.00000086	0.00000115	0.00000115	0.00000144	0.00000144	0.00000144	0.00000173	0.00000173	0.00000230	0.00000230	0.00000317	0.00000317	0.00000346	0.00000374	0.00000374	0.00000374	0.00000374	0.00000374	0.00000374	0.00000259	0.00000230	0.00000173	0.00000144	0.00000144
Construction Worker Commute	0.00000101	0.00000101	0.00000218	0.00000311	0.00000342	0.00000389	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000358	0.00000350	0.00000202	0.00000179	0.00000117
Offsite Total (metric tons/day)	**0.00000214**	**0.00000242**	**0.00000359**	**0.00000481**	**0.00000503**	**0.00000549**	**0.00000563**	**0.00000563**	**0.00000620**	**0.00000620**	**0.00000707**	**0.00000707**	**0.00000735**	**0.00000764**	**0.00000764**	**0.00000764**	**0.00000764**	**0.00000764**	**0.00000764**	**0.00000634**	**0.00000616**	**0.00000411**	**0.00000359**	**0.00000280**
	N_2O Emissions (metric tons/month)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000000
Material Hauling Trucks	0.0000044	0.0000044	0.0000044	0.0000044	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000066	0.0000066	0.0000066	0.0000044
Waste Hauling Trucks	0.0000199	0.0000265	0.0000265	0.0000331	0.0000331	0.0000331	0.0000397	0.0000397	0.0000530	0.0000530	0.0000729	0.0000729	0.0000795	0.0000861	0.0000861	0.0000861	0.0000861	0.0000861	0.0000861	0.0000596	0.0000530	0.0000397	0.0000331	0.0000331
Construction Worker Commute	0.0000233	0.0000233	0.0000501	0.0000715	0.0000787	0.0000894	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000823	0.0000805	0.0000465	0.0000411	0.0000268
Offsite Total (metric tons/month)	**0.0000492**	**0.0000558**	**0.0000826**	**0.0001107**	**0.0001156**	**0.0001264**	**0.0001294**	**0.0001294**	**0.0001427**	**0.0001427**	**0.0001625**	**0.0001625**	**0.0001692**	**0.0001758**	**0.0001758**	**0.0001758**	**0.0001758**	**0.0001758**	**0.0001758**	**0.0001457**	**0.0001417**	**0.0000945**	**0.0000825**	**0.0000644**
Offsite Total (metric tons/year)	**0.0019799**																							

Offsite Vehicle CH_4 Emissions from Units 1 & 2 Demolition

	CH_4 Emissions (metric tons/day)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000000
Material Hauling Trucks	0.00000020	0.00000020	0.00000020	0.00000020	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000031	0.00000031	0.00000031	0.00000020
Waste Hauling Trucks	0.00000092	0.00000122	0.00000122	0.00000153	0.00000153	0.00000153	0.00000184	0.00000184	0.00000245	0.00000245	0.00000337	0.00000337	0.00000367	0.00000398	0.00000398	0.00000398	0.00000398	0.00000398	0.00000398	0.00000275	0.00000245	0.00000184	0.00000153	0.00000153
Construction Worker Commute	0.00000486	0.00000486	0.00001046	0.00001495	0.00001644	0.00001868	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001719	0.00001682	0.00000972	0.00000859	0.00000561
Offsite Total (metric tons/day)	**0.00000605**	**0.00000636**	**0.00001197**	**0.00001676**	**0.00001815**	**0.00002039**	**0.00001995**	**0.00001995**	**0.00002056**	**0.00002056**	**0.00002148**	**0.00002148**	**0.00002179**	**0.00002209**	**0.00002209**	**0.00002209**	**0.00002209**	**0.00002209**	**0.00002209**	**0.00002012**	**0.00001964**	**0.00001193**	**0.00001051**	**0.00000734**
	CH_4 Emissions (metric tons/month)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000000
Material Hauling Trucks	0.0000047	0.0000047	0.0000047	0.0000047	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000070	0.0000070	0.0000070	0.0000047
Waste Hauling Trucks	0.0000211	0.0000282	0.0000282	0.0000352	0.0000352	0.0000352	0.0000422	0.0000422	0.0000563	0.0000563	0.0000774	0.0000774	0.0000845	0.0000915	0.0000915	0.0000915	0.0000915	0.0000915	0.0000915	0.0000633	0.0000563	0.0000422	0.0000352	0.0000352
Construction Worker Commute	0.0001117	0.0001117	0.0002406	0.0003438	0.0003782	0.0004297	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0003954	0.0003868	0.0002235	0.0001977	0.0001289
Offsite Total (metric tons/month)	**0.0001392**	**0.0001463**	**0.0002752**	**0.0003854**	**0.0004174**	**0.0004690**	**0.0004588**	**0.0004588**	**0.0004729**	**0.0004729**	**0.0004940**	**0.0004940**	**0.0005011**	**0.0005081**	**0.0005081**	**0.0005081**	**0.0005081**	**0.0005081**	**0.0005081**	**0.0004628**	**0.0004518**	**0.0002744**	**0.0002416**	**0.0001688**
Offsite Total (metric tons/year)	**0.0059462**																							

Offsite Construction Vehicle Activity for Units 1 & 2 Demolition

Vehicle Type	**Roundtrip Miles/Day** [a]	**Working Days per Month** [b]
Offsite Delivery Trucks	14.6	23
Material Hauling Trucks	40.0	23
Waste Hauling Trucks	60.0	23
Construction Worker Commute	21.6	23

Notes:

[a] Roundtrip miles/day taken as the CalEEMod defaults for the South Coast Air Basin except for Waste Hauling Trucks, which were assumed to travel directly to the the landfill for offsite waste disposal.

[b] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Table 5.1A.32R Equations Used to Calculate Criteria Pollutant and GHG Emissions

Equations Used to Calculate Emissions from Units 1 & 2 Demolition

Emission Source	Pollutant(s)	Equation	Variables
Construction Equipment Exhaust	CO, VOC, NOx, SOx, PM_{10}, and $PM_{2.5}$	$E_m = EF * N * Hp * L * H / 453.6$	E_m = Emissions (lbs/month)
			EF = Emission factor (g/bhp-hr)
			N = Number of pieces of equipment
			Hp = Average horsepower
			L = Average load factor
			H = Hours per month
			453.6 = Conversion from g to lbs
		$E_d = E_m / D$	E_d = Emissions (lbs/day)
			E_m = Emissions (lbs/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons
	CO_2	$E_m = N * FC * EF * H * 0.001$	E_m = Emissions (metric tons/month)
			N = Number of pieces of equipment
			FC = Fuel consumption (gallons/hour)
			EF = Emission factor (kg/gallon)
			H = Hours per month
			0.001 = Conversion from kg to metric tons
		$E_d = E_m / D$	E_d = Emissions (metric tons/day)
			E_m = Emissions (metric tons/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
	CH_4 and N_2O	$E_m = N * FC * EF * H / 1{,}000 * 0.001$	E_m = Emissions (metric tons/month)
			N = Number of pieces of equipment
			FC = Fuel consumption (gallons/hour)
			EF = Emission factor (g/gallon)
			H = Hours per month
			1,000 = Conversion from g to kg
			0.001 = Conversion from kg to metric tons
		$E_d = E_m / D$	E_d = Emissions (metric tons/day)
			E_m = Emissions (metric tons/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
Onsite and Offsite Vehicle Exhaust and Paved and Unpaved Road Fugitive PM_{10} and $PM_{2.5}$	CO, VOC, NOx, SOx, PM_{10}, and $PM_{2.5}$	$E_d = N * VMT * EF / 453.6$	E_d = Emissions (lbs/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			EF = EMFAC2007 emission factor (g/mile). Paved and unpaved road fugitive PM_{10} and $PM_{2.5}$ emission factors calculated per Sections 13.2.1 and 13.2.2 of AP-42, respectively.
			453.6 = Conversion from g to lbs
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons

Table 5.1A.32R Equations Used to Calculate Criteria Pollutant and GHG Emissions

Equations Used to Calculate Emissions from Units 1 & 2 Demolition

Emission Source	Pollutant(s)	Equation	Variables
Onsite and Offsite Vehicle Exhaust	CO_2	$E_d = N * VMT / FE * EF * 0.001$	E_d = Emissions (metric tons/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			FE = Fuel economy (mpg)
			EF = Emission factor (kg/gallon)
			0.001 = Conversion from kg to metric tons
		$E_m = E_d * D$	E_m = Emissions (metric tons/month)
			E_d = Emissions (metric tons/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
	CH_4 and N_2O	$E_d = N * VMT * EF / 1{,}000 * 0.001$	E_d = Emissions (metric tons/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			EF = Emission factor (g/mile)
			1,000 = Conversion from g to kg
			0.001 = Conversion from kg to metric tons
		$E_m = E_d * D$	E_m = Emissions (metric tons/month)
			E_d = Emissions (metric tons/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
Onsite Fugitive PM_{10} and $PM_{2.5}$ from Dismemberment and Debris Loading	PM_{10} and $PM_{2.5}$	$E_d = T * EF / D$	E_d = Emissions (lbs/day)
			T = Tons of material dismembered or loaded
			EF = Fugitive PM_{10} and $PM_{2.5}$ emission factors (lbs/ton), calculated per Section 13.2.4.3 of AP-42 for dismemberment and Section 4.4 of Appendix A of the CalEEMod User's Guide for debris loading.
			D = Number of construction days per month
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons

Huntington Beach Energy Project
Construction Emission Estimates - Units 1 and 2 Demolition
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Table 5.1A.33R Number of Onsite Construction Equipment and Motor Vehicles

Number of Onsite Equipment for Units 1 & 2 Demolition

Onsite Equipment	Number per Month [a]																							
	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Water Truck	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cranes [b]	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3
Rubber Tired Loader [c]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2
Air Compressor	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Forklift	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Excavators	2	2	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

Notes:

[a] Equipment counts taken from 'HBEP Equipment Usage 1.21.13.xls'.

[b] Numbers presented for Cranes includes the equipment counts for the 75 Ton Hydraulic Crane and the 35 Ton Hydraulic Crane.

[c] Numbers presented for Rubber Tired Loader includes the equipment counts for the Front End Loader.

Number of Onsite Motor Vehicles for Units 1 & 2 Demolition

Vehicle Type	Number per Month [a]																							
	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Onsite Pick-up Truck	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Onsite Stake Truck	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Onsite Dump Truck	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Notes:

[a] Vehicle counts taken from 'HBEP Equipment Usage 1.21.13.xls'.

Huntington Beach Energy Project
Construction Emission Estimates - Units 1 and 2 Demolition
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Table 5.1A.34R Construction Equipment Exhaust Criteria Pollutant Emission Factors

Construction Equipment Emission Factors for Units 1 & 2 Demolition

Equipment [a]	Percent Usage [b]	Hours per Month [c]	Horsepower [d]	Load Factor [d]	Emission Factors (g/bhp-hr) [e]												Fuel Consumption (gallons/hour) [f]
					CO	VOC	NO_X 2020	NO_X 2021	NO_X 2022	SO_x	PM_{10} 2020	PM_{10} 2021	PM_{10} 2022	$PM_{2.5}$ 2020	$PM_{2.5}$ 2021	$PM_{2.5}$ 2022	
Water Truck [g]	50%	115	381	0.57	1.136	0.310	1.561	1.365	1.194	0.005	0.057	0.050	0.043	0.057	0.050	0.043	12.32
Cranes	65%	150	208	0.43	1.236	0.356	2.507	2.231	1.979	0.006	0.086	0.077	0.068	0.086	0.077	0.068	5.08
Rubber Tired Loader	55%	127	87	0.54	3.836	0.542	3.404	3.155	2.929	0.006	0.228	0.198	0.171	0.228	0.198	0.171	2.69
Air Compressor	80%	184	78	0.48	3.698	0.489	3.400	3.083	2.844	0.006	0.224	0.190	0.165	0.224	0.190	0.165	2.14
Forklift	75%	173	149	0.30	3.360	0.338	1.782	1.508	1.281	0.006	0.087	0.069	0.054	0.087	0.069	0.054	2.55
Excavator	85%	196	157	0.57	3.361	0.355	1.958	1.710	1.492	0.006	0.098	0.085	0.073	0.098	0.085	0.073	5.11

Notes:

[a] Assumed all equipment is fired with diesel fuel, per Section 4.2 of Appendix A of the CalEEMod User's Guide.

[b] Percent Usage assumed typical of power plant construction.

[c] Hours per month calculated based on the following schedule, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Work hours per day: 10
Work days per month: 23

[d] Construction equipment horsepower and load factor taken from Table 3.3 of Appendix D of the CalEEMod User's Guide.

[e] Construction equipment emission factors taken from Table 3.4 of Appendix D of the CalEEMod User's Guide. The emission factors for the year 2020 were used for the construction equipment exhaust emission calculations for CO, VOC, and SOx. The emission factors for year 2020, 2021 and 2022 were used for NOx, PM10, and PM2.5.

[f] Fuel consumption based on consumption in the OFFROAD2007 model for the SCAB in the year 2020; value estimated by dividing the reported consumption (gallons/day) by the reported activity (hours/day).

[g] Horsepower, load factor, and emission factors for Off-Highway Trucks were assumed representative of Water Trucks.

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Table 5.1A.35R Onsite and Offsite Motor Vehicle Criteria Pollutant Emission Factors

Vehicle Emission Factors for Units 1 & 2 Demolition

Vehicle Type	Vehicle Class [a]	Exhaust Emission Factors (g/mile) [b]												Paved Road Emission Factors (g/mile) [c]		Fuel Economy (mpg) [b]
		CO	VOC	SO_X	NO_X 2020	NO_X 2021	NO_X 2022	PM_{10} 2020	PM_{10} 2021	PM_{10} 2022	$PM_{2.5}$ 2020	$PM_{2.5}$ 2021	$PM_{2.5}$ 2022	PM_{10}	$PM_{2.5}$	
Onsite Pick-up Truck	Light-duty Truck	2.560	0.153	0.011	0.239	0.223	0.207	0.127	0.128	0.129	0.105	0.106	0.107	N/A	N/A	7.467
Onsite Stake Truck	Heavy-duty Diesel	7.701	4.236	0.037	12.285	11.246	10.375	0.506	0.430	0.368	0.427	0.357	0.301	N/A	N/A	2.621
Onsite Dump Truck	Heavy-duty Diesel	7.701	4.236	0.037	12.285	11.246	10.375	0.506	0.430	0.368	0.427	0.357	0.301	N/A	N/A	2.621
Offsite Delivery Trucks	Heavy-duty Diesel	1.623	0.333	0.017	4.193	3.805	3.481	0.214	0.201	0.190	0.159	0.147	0.137	0.300	0.075	5.749
Material Hauling Trucks	Heavy/Medium-duty Diesel	1.359	0.221	0.016	3.278	2.973	2.714	0.184	0.175	0.168	0.143	0.135	0.128	0.300	0.075	6.224
Waste Hauling Trucks	Heavy/Medium-duty Diesel	1.359	0.221	0.016	3.278	2.973	2.714	0.184	0.175	0.168	0.143	0.135	0.128	0.300	0.075	6.224
Construction Worker Commute	Light-duty Auto/Truck	1.077	0.017	0.003	0.097	0.090	0.336	0.033	0.033	0.033	0.018	0.018	0.018	0.300	0.075	27.504

Notes:

[a] The vehicle classes are represented as follows:

Light-duty Truck: Assumed to be an average of LDT1, All and LDT2, All values.
Heavy-duty Diesel: Assumed to be 100% HHD DSL values, as confirmed in Section 4.5 of Appendix A of the CalEEMod User's Guide.
Heavy/Medium-duty Diesel: 50% HHD DSL and 50% MHD DSL values, per Section 4.5 of Appendix A of the CalEEMod User's Guide.
Light-duty Auto/Truck: 50% LDA, All; 25% LDT1, All; and 25% LDT2, All values, per Section 4.5 of Appendix A of the CalEEMod User's Guide.

[b] Exhaust emission factors and fuel economy from EMFAC2007 for the South Coast Air Basin, calendar year 2020 for CO, VOC, and SOx. Calendar year 2020, 2021 and 2022 were used for NOx, PM10, and PM2.5. A speed of 5 mph was assumed for onsite vehicles; a speed of 40 mph was assumed for offsite vehicles and worker commutes, which is consistent with the CalEEMod defaults. An average temperature of 68°F and humidity of 55% were used per Table B-1 of CT-EMFAC: A Computer Model to Estimate Transportation Project Emissions.

[c] Paved road emission factors calculated using CalEEMod methodology, as described below.

Derivation of Paved Road Emission Factors

Vehicles on Paved Roads

Parameter	PM_{10}	$PM_{2.5}$
Average Weight [a]	2.4	2.4
k [b]	1.0	0.25
sL [a]	0.1	0.1
Emission Factor (g/mile) [c]	0.300	0.075

Notes:

[a] Average Weight and sL taken as the default value from CalEEMod.

[b] k taken from Table 13.2.1-1 of Section 13.2.1 of AP-42.

[c] Emission factor calculated using Equation 1 from Section 13.2.1 of AP-42:

Emission Factor (g/mile) = k (g/mile) x $[sL\ (g/m^2)]^{0.91}$ x $[\text{Average Weight (tons)}]^{1.02}$

Huntington Beach Energy Project
Construction Emission Estimates - Units 1 and 2 Demolition
April 2014

Table 5.1A.36R Onsite and Offsite Greenhouse Gas Emission Factors

Greenhouse Gas Emission Factors for Units 1 & 2 Demolition

Fuel / Category Type	Emission Factor	Emission Factor Units	Emission Factor Source
CO_2 Emission Factors			
Gasoline	8.78	kg CO_2/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.1, May 2008 as updated through January 2012.
Diesel	10.21	kg CO_2/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.1, May 2008 as updated through January 2012.
N_2O Emission Factors			
Gasoline Passenger Car Model Year 2009 [a]	0.0036	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Gasoline Light-duty Truck Model Year 2009 [a]	0.0066	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Heavy-duty Truck Model Year 1960 - 2009 [a]	0.0048	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Off-road Vehicle	0.26	g N_2O/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.7, May 2008 as updated through January 2012.
CH_4 Emission Factors			
Gasoline Passenger Car Model Year 2009 [a]	0.0173	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Gasoline Light-duty Truck Model Year 2009 [a]	0.0163	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Heavy-duty Truck Model Year 1960 - 2009 [a]	0.0051	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Off-road Vehicle	0.58	g CH_4/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.7, May 2008 as updated through January 2012.

Notes:

[a] Model Year 2009 was the most recent year of emission factors available. As a result, it was assumed representative of vehicles used for this project.

Huntington Beach Energy Project
Construction Emission Estimates - Buildings 33 and 34 Construction
April 2014

Table 5.1A.37R Onsite Construction Equipment Exhaust Emissions

Construction Equipment CO Emissions from Bldgs. 33 & 34 Construction

	CO Emisisons (lbs/month)													
Onsite Equipment	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Grader	0.00	133.77	133.77	133.77	133.77	133.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cranes	0.00	0.00	0.00	35.93	35.93	35.93	35.93	35.93	35.93	35.93	35.93	35.93	35.93	35.93
Tractor/Loader/Backhoe	0.00	42.89	42.89	42.89	42.89	42.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rubber Tired Loader	50.05	50.05	50.05	50.05	50.05	50.05	50.05	50.05	50.05	50.05	50.05	50.05	50.05	50.05
Crawler Tractor	0.00	84.66	84.66	84.66	84.66	84.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	55.74	55.74	55.74	55.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Roller	0.00	53.12	53.12	53.12	53.12	53.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**105.79**	**420.22**	**420.22**	**456.16**	**400.42**	**400.42**	**85.98**	**85.98**	**85.98**	**85.98**	**85.98**	**85.98**	**85.98**	**85.98**
Onsite Total (lbs/day) [a]	**4.60**	**18.27**	**18.27**	**19.83**	**17.41**	**17.41**	**3.74**	**3.74**	**3.74**	**3.74**	**3.74**	**3.74**	**3.74**	**3.74**
Onsite Total (tons/year)	**1.36**													

Construction Equipment VOC Emissions from Bldgs. 33 & 34 Construction

	VOC Emisisons (lbs/month)													
Onsite Equipment	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Grader	0.00	15.67	15.67	15.67	15.67	15.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cranes	0.00	0.00	0.00	9.93	9.93	9.93	9.93	9.93	9.93	9.93	9.93	9.93	9.93	9.93
Tractor/Loader/Backhoe	0.00	4.29	4.29	4.29	4.29	4.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rubber Tired Loader	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56
Crawler Tractor	0.00	14.33	14.33	14.33	14.33	14.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	6.71	6.71	6.71	6.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Roller	0.00	7.28	7.28	7.28	7.28	7.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**13.28**	**54.85**	**54.85**	**64.79**	**58.07**	**58.07**	**16.50**	**16.50**	**16.50**	**16.50**	**16.50**	**16.50**	**16.50**	**16.50**
Onsite Total (lbs/day) [a]	**0.58**	**2.38**	**2.38**	**2.82**	**2.52**	**2.52**	**0.72**	**0.72**	**0.72**	**0.72**	**0.72**	**0.72**	**0.72**	**0.72**
Onsite Total (tons/year)	**0.20**													

Construction Equipment NOx Emissions from Bldgs. 33 & 34 Construction

	NOx Emissions (lbs/month)													
Onsite Equipment	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Grader	0.00	92.20	92.20	92.20	92.20	82.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cranes	0.00	0.00	0.00	65.77	65.77	58.34	58.34	58.34	58.34	58.34	58.34	58.34	58.34	58.34
Tractor/Loader/Backhoe	0.00	28.75	28.75	28.75	28.75	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rubber Tired Loader	41.34	41.34	41.34	41.34	41.34	38.38	38.38	38.38	38.38	38.38	38.38	38.38	38.38	38.38
Crawler Tractor	0.00	84.28	84.28	84.28	84.28	78.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	46.82	46.82	46.82	46.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Roller	0.00	48.59	48.59	48.59	48.59	45.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**88.16**	**341.97**	**341.97**	**407.74**	**360.91**	**329.49**	**96.71**	**96.71**	**96.71**	**96.71**	**96.71**	**96.71**	**96.71**	**96.71**
Onsite Total (lbs/day) [a]	**3.83**	**14.87**	**14.87**	**17.73**	**15.69**	**14.33**	**4.20**	**4.20**	**4.20**	**4.20**	**4.20**	**4.20**	**4.20**	**4.20**
Onsite Total (tons/year)	**1.23**													

Table 5.1A.37R Onsite Construction Equipment Exhaust Emissions

Construction Equipment SOx Emissions from Bldgs. 33 & 34 Construction

	SOx Emissions (lbs/month)													
Onsite Equipment	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Grader	0.00	0.24	0.24	0.24	0.24	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cranes	0.00	0.00	0.00	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Tractor/Loader/Backhoe	0.00	0.07	0.07	0.07	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rubber Tired Loader	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Crawler Tractor	0.00	0.13	0.13	0.13	0.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	0.09	0.09	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Roller	0.00	0.09	0.09	0.09	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**0.17**	**0.69**	**0.69**	**0.87**	**0.78**	**0.78**	**0.26**	**0.26**	**0.26**	**0.26**	**0.26**	**0.26**	**0.26**	**0.26**
Onsite Total (lbs/day) [a]	**0.01**	**0.03**	**0.03**	**0.04**	**0.03**	**0.03**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**
Onsite Total (tons/year)	**0.00**													

Construction Equipment PM_{10} Emissions from Bldgs. 33 & 34 Construction

	PM_{10} Emissions (lbs/month)													
Onsite Equipment	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Grader	0.00	4.89	4.89	4.89	4.89	4.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cranes	0.00	0.00	0.00	2.27	2.27	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Tractor/Loader/Backhoe	0.00	1.36	1.36	1.36	1.36	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rubber Tired Loader	2.59	2.59	2.59	2.59	2.59	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24
Crawler Tractor	0.00	6.17	6.17	6.17	6.17	5.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	2.89	2.89	2.89	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Roller	0.00	3.26	3.26	3.26	3.26	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**5.48**	**21.16**	**21.16**	**23.43**	**20.55**	**18.10**	**4.24**	**4.24**	**4.24**	**4.24**	**4.24**	**4.24**	**4.24**	**4.24**
Onsite Total (lbs/day) [a]	**0.24**	**0.92**	**0.92**	**1.02**	**0.89**	**0.79**	**0.18**	**0.18**	**0.18**	**0.18**	**0.18**	**0.18**	**0.18**	**0.18**
Onsite Total (tons/year)	**0.07**													

Construction Equipment $PM_{2.5}$ Emissions from Bldgs. 33 & 34 Construction

	$PM_{2.5}$ Emissions (lbs/month)													
Onsite Equipment	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Grader	0.00	4.89	4.89	4.89	4.89	4.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cranes	0.00	0.00	0.00	2.27	2.27	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Tractor/Loader/Backhoe	0.00	1.36	1.36	1.36	1.36	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rubber Tired Loader	2.59	2.59	2.59	2.59	2.59	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24
Crawler Tractor	0.00	6.17	6.17	6.17	6.17	5.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	2.89	2.89	2.89	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Roller	0.00	3.26	3.26	3.26	3.26	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**5.48**	**21.16**	**21.16**	**23.43**	**20.55**	**18.10**	**4.24**	**4.24**	**4.24**	**4.24**	**4.24**	**4.24**	**4.24**	**4.24**
Onsite Total (lbs/day) [a]	**0.24**	**0.92**	**0.92**	**1.02**	**0.89**	**0.79**	**0.18**	**0.18**	**0.18**	**0.18**	**0.18**	**0.18**	**0.18**	**0.18**
Onsite Total (tons/year)	**0.07**													

Table 5.1A.37R Onsite Construction Equipment Exhaust Emissions

Construction Equipment CO_2 Emissions from Bldgs. 33 & 34 Construction

	CO_2 Emissions (metric tons/month)													
Onsite Equipment	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Grader	0.00	10.60	10.60	10.60	10.60	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cranes	0.00	0.00	0.00	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74
Tractor/Loader/Backhoe	0.00	3.05	3.05	3.05	3.05	3.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rubber Tired Loader	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47
Crawler Tractor	0.00	5.65	5.65	5.65	5.65	5.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	4.02	4.02	4.02	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Roller	0.00	3.79	3.79	3.79	3.79	3.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (metric tons/month)	**7.49**	**30.58**	**30.58**	**38.32**	**34.30**	**34.30**	**11.21**	**11.21**	**11.21**	**11.21**	**11.21**	**11.21**	**11.21**	**11.21**
Onsite Total (metric tons/day) [a]	**0.33**	**1.33**	**1.33**	**1.67**	**1.49**	**1.49**	**0.49**	**0.49**	**0.49**	**0.49**	**0.49**	**0.49**	**0.49**	**0.49**
Onsite Total (metric tons/year)	**246.6**													

Construction Equipment N_2O Emissions from Bldgs. 33 & 34 Construction

	N_2O Emissions (metric tons/month)													
Onsite Equipment	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Grader	0.00000	0.00027	0.00027	0.00027	0.00027	0.00027	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Cranes	0.00000	0.00000	0.00000	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020
Tractor/Loader/Backhoe	0.00000	0.00008	0.00008	0.00008	0.00008	0.00008	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Rubber Tired Loader	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
Crawler Tractor	0.00000	0.00014	0.00014	0.00014	0.00014	0.00014	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Air Compressor	0.00010	0.00010	0.00010	0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Roller	0.00000	0.00010	0.00010	0.00010	0.00010	0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Onsite Total (metric tons/month)	**0.00019**	**0.00078**	**0.00078**	**0.00098**	**0.00087**	**0.00087**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**
Onsite Total (metric tons/day) [a]	**0.00001**	**0.00003**	**0.00003**	**0.00004**	**0.00004**	**0.00004**	**0.00001**	**0.00001**	**0.00001**	**0.00001**	**0.00001**	**0.00001**	**0.00001**	**0.00001**
Onsite Total (metric tons/year)	**0.0063**													

Construction Equipment CH_4 Emissions from Bldgs. 33 & 34 Construction

	CH_4 Emissions (metric tons/month)													
Onsite Equipment	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Grader	0.00000	0.00060	0.00060	0.00060	0.00060	0.00060	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Cranes	0.00000	0.00000	0.00000	0.00044	0.00044	0.00044	0.00044	0.00044	0.00044	0.00044	0.00044	0.00044	0.00044	0.00044
Tractor/Loader/Backhoe	0.00000	0.00017	0.00017	0.00017	0.00017	0.00017	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Rubber Tired Loader	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020
Crawler Tractor	0.00000	0.00032	0.00032	0.00032	0.00032	0.00032	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Air Compressor	0.00023	0.00023	0.00023	0.00023	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Roller	0.00000	0.00022	0.00022	0.00022	0.00022	0.00022	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Onsite Total (metric tons/month)	**0.00043**	**0.00174**	**0.00174**	**0.00218**	**0.00195**	**0.00195**	**0.00064**	**0.00064**	**0.00064**	**0.00064**	**0.00064**	**0.00064**	**0.00064**	**0.00064**
Onsite Total (metric tons/day) [a]	**0.00002**	**0.00008**	**0.00008**	**0.00009**	**0.00008**	**0.00008**	**0.00003**	**0.00003**	**0.00003**	**0.00003**	**0.00003**	**0.00003**	**0.00003**	**0.00003**
Onsite Total (metric tons/year)	**0.0140**													

Notes:

[a] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls', the days per month are as follows 23

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Table 5.1A.38R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle CO Emissions from Bldgs. 33 & 34 Construction

	CO Emissions (lbs/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Onsite Stake Truck	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Onsite Dump Truck	0.00	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.04**	**0.06**	**0.06**	**0.06**	**0.04**	**0.04**	**0.04**	**0.04**	**0.04**	**0.04**	**0.04**	**0.04**	**0.04**	**0.04**
	CO Emissions (lbs/month) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Onsite Stake Truck	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Onsite Dump Truck	0.00	0.36	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**0.97**	**1.33**	**1.33**	**1.33**	**0.97**	**0.97**	**0.97**	**0.97**	**0.97**	**0.97**	**0.97**	**0.97**	**0.97**	**0.97**
Onsite Total (tons/year)	**0.01**													

Onsite Construction Vehicle VOC Emissions from Bldgs. 33 & 34 Construction

	VOC Emisisons (lbs/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Stake Truck	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Onsite Dump Truck	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.018**	**0.026**	**0.026**	**0.026**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**
	VOC Emissions (lbs/month) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Onsite Stake Truck	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
Onsite Dump Truck	0.00	0.20	0.20	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**0.41**	**0.61**	**0.61**	**0.61**	**0.41**	**0.41**	**0.41**	**0.41**	**0.41**	**0.41**	**0.41**	**0.41**	**0.41**	**0.41**
Onsite Total (tons/year)	**0.00**													

Onsite Construction Vehicle SOx Emissions from Bldgs. 33 & 34 Construction

	SOx Emissions (lbs/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
Onsite Stake Truck	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016
Onsite Dump Truck	0.00000	0.00008	0.00008	0.00008	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Onsite Total (lbs/day)	**0.00021**	**0.00029**	**0.00029**	**0.00029**	**0.00021**	**0.00021**	**0.00021**	**0.00021**	**0.00021**	**0.00021**	**0.00021**	**0.00021**	**0.00021**	**0.00021**
	SOx Emissions (lbs/month) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011
Onsite Stake Truck	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038
Onsite Dump Truck	0.0000	0.0019	0.0019	0.0019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Onsite Total (lbs/month)	**0.0049**	**0.0067**	**0.0067**	**0.0067**	**0.0049**	**0.0049**	**0.0049**	**0.0049**	**0.0049**	**0.0049**	**0.0049**	**0.0049**	**0.0049**	**0.0049**
Onsite Total (tons/year)	**0.00003**													

Onsite Construction Vehicle NOx Emissions from Bldgs. 33 & 34 Construction

	NOx Emissions (lbs/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.0010	0.0010	0.0010	0.0010	0.0010	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009
Onsite Stake Truck	0.0496	0.0496	0.0496	0.0496	0.0496	0.0457	0.0457	0.0457	0.0457	0.0457	0.0457	0.0457	0.0457	0.0457
Onsite Dump Truck	0.0000	0.0248	0.0248	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Onsite Total (lbs/day)	**0.0506**	**0.0754**	**0.0754**	**0.0754**	**0.0506**	**0.0467**	**0.0467**	**0.0467**	**0.0467**	**0.0467**	**0.0467**	**0.0467**	**0.0467**	**0.0467**
	NOx Emissions (lbs/month) [a]													
Vehicle Type	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**	**91**	**92**	**93**	**94**
Onsite Pick-up Truck	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Onsite Stake Truck	1.14	1.14	1.14	1.14	1.14	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Onsite Dump Truck	0.00	0.57	0.57	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**1.16**	**1.73**	**1.73**	**1.73**	**1.16**	**1.07**	**1.07**	**1.07**	**1.07**	**1.07**	**1.07**	**1.07**	**1.07**	**1.07**
Onsite Total (tons/year)	**0.01**													

Table 5.1A.38R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle PM_{10} Emissions from Bldgs. 33 & 34 Construction

	PM_{10} Emissions (lbs/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
Onsite Stake Truck	0.0019	0.0019	0.0019	0.0019	0.0019	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
Onsite Dump Truck	0.0000	0.0009	0.0009	0.0009	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Onsite Total (lbs/day)	**0.0025**	**0.0034**	**0.0034**	**0.0034**	**0.0025**	**0.0022**	**0.0022**	**0.0022**	**0.0022**	**0.0022**	**0.0022**	**0.0022**	**0.0022**	**0.0022**
	PM_{10} Emissions (lbs/month) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
Onsite Stake Truck	0.044	0.044	0.044	0.044	0.044	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
Onsite Dump Truck	0.000	0.022	0.022	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Onsite Total (lbs/month)	**0.057**	**0.078**	**0.078**	**0.078**	**0.057**	**0.050**	**0.050**	**0.050**	**0.050**	**0.050**	**0.050**	**0.050**	**0.050**	**0.050**
Onsite Total (tons/year)	**0.0004**													

Onsite Construction Vehicle $PM_{2.5}$ Emissions from Bldgs. 33 & 34 Construction

	$PM_{2.5}$ Emissions (lbs/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Onsite Stake Truck	0.0016	0.0016	0.0016	0.0016	0.0016	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013
Onsite Dump Truck	0.0000	0.0008	0.0008	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Onsite Total (lbs/day)	**0.0020**	**0.0028**	**0.0028**	**0.0028**	**0.0020**	**0.0018**	**0.0018**	**0.0018**	**0.0018**	**0.0018**	**0.0018**	**0.0018**	**0.0018**	**0.0018**
	$PM_{2.5}$ Emissions (lbs/month) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Onsite Stake Truck	0.036	0.036	0.036	0.036	0.036	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
Onsite Dump Truck	0.000	0.018	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Onsite Total (lbs/month)	**0.047**	**0.065**	**0.065**	**0.065**	**0.047**	**0.041**	**0.041**	**0.041**	**0.041**	**0.041**	**0.041**	**0.041**	**0.041**	**0.041**
Onsite Total (tons/year)	**0.0003**													

Onsite Construction Vehicle CO_2 Emissions from Bldgs. 33 & 34 Construction

	CO_2 Emissions (metric tons/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Onsite Stake Truck	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Onsite Dump Truck	0.000	0.004	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Onsite Total (metric tons/day)	**0.010**	**0.014**	**0.014**	**0.014**	**0.010**	**0.010**	**0.010**	**0.010**	**0.010**	**0.010**	**0.010**	**0.010**	**0.010**	**0.010**
	CO_2 Emissions (metric tons/month) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Onsite Stake Truck	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Onsite Dump Truck	0.00	0.09	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (metric tons/month)	**0.23**	**0.32**	**0.32**	**0.32**	**0.23**	**0.23**	**0.23**	**0.23**	**0.23**	**0.23**	**0.23**	**0.23**	**0.23**	**0.23**
Onsite Total (metric tons/year)	**3.07**													

Onsite Construction Vehicle N_2O Emissions from Bldgs. 33 & 34 Construction

	N_2O Emissions (metric tons/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013
Onsite Stake Truck	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010
Onsite Dump Truck	0.000000000	0.000000005	0.000000005	0.000000005	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Onsite Total (metric tons/day)	**0.000000023**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000023**	**0.000000023**	**0.000000023**	**0.000000023**	**0.000000023**	**0.000000023**	**0.000000023**	**0.000000023**	**0.000000023**	**0.000000023**
	N_2O Emissions (metric tons/month) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030
Onsite Stake Truck	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022
Onsite Dump Truck	0.00000000	0.00000011	0.00000011	0.00000011	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Onsite Total (metric tons/month)	**0.00000052**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000052**	**0.00000052**	**0.00000052**	**0.00000052**	**0.00000052**	**0.00000052**	**0.00000052**	**0.00000052**	**0.00000052**	**0.00000052**
Onsite Total (metric tons/year)	**0.000007**													

Table 5.1A.38R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle CH_4 Emissions from Bldgs. 33 & 34 Construction

Vehicle Type	CH_4 Emissions (metric tons/day)													
	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Onsite Pick-up Truck	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033
Onsite Stake Truck	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010
Onsite Dump Truck	0.000000000	0.000000005	0.000000005	0.000000005	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Onsite Total (metric tons/day)	**0.000000043**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000043**	**0.000000043**	**0.000000043**	**0.000000043**	**0.000000043**	**0.000000043**	**0.000000043**	**0.000000043**	**0.000000043**	**0.000000043**
Vehicle Type	**CH_4 Emissions (metric tons/month) [a]**													
	77	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.00000075	0.00000075	0.00000075	0.00000075	0.00000075	0.00000075	0.00000075	0.00000075	0.00000075	0.00000075	0.00000075	0.00000075	0.00000075	0.00000075
Onsite Stake Truck	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023
Onsite Dump Truck	0.00000000	0.00000012	0.00000012	0.00000012	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Onsite Total (metric tons/month)	**0.00000098**	**0.00000110**	**0.00000110**	**0.00000110**	**0.00000098**	**0.00000098**	**0.00000098**	**0.00000098**	**0.00000098**	**0.00000098**	**0.00000098**	**0.00000098**	**0.00000098**	**0.00000098**
Onsite Total (metric tons/year)	**0.000012**													

Notes:

[a] The days per month are per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls', as presented on the 'Onsite Fugitive Dust' tab.

Table 5.1A.39R Onsite Construction Fugitive Dust Emissions

Grading and Bulldozing Activity Levels for Bldgs. 33 & 34 Construction

	Monthly Activity Levels													
Source	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Site Disturbance (acres) [a]	0.00	0.48	0.48	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulldozer Operation (hours) [b]	0.00	230.00	230.00	230.00	230.00	230.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Notes:

[a] Estimated a total of 2.4 acres is disturbed during Bldgs. 33 & 34 Construction based on data provided by H. Larios/PEC on 3/23/12; assumed this disturbance was equally distributed amongst the months in which graders are utilized.

[b] Bulldozer Operation calculated based on the number of equipment and the hours of operation per month, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls':

Hours per Day: 10
Days per Month: 23

Onsite Construction Vehicle Fugitive PM_{10} Emissions from Bldgs. 33 & 34 Construction

	Fugitive PM_{10} Emissions (lbs/day) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Onsite Stake Truck	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Onsite Dump Truck	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**1.39**	**1.73**	**1.73**	**1.73**	**1.39**	**1.39**	**1.39**	**1.39**	**1.39**	**1.39**	**1.39**	**1.39**	**1.39**	**1.39**
	Fugitive PM_{10} Emissions (lbs/month) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95
Onsite Stake Truck	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95
Onsite Dump Truck	0.00	7.98	7.98	7.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**31.90**	**39.88**	**39.88**	**39.88**	**31.90**	**31.90**	**31.90**	**31.90**	**31.90**	**31.90**	**31.90**	**31.90**	**31.90**	**31.90**
Onsite Total (tons/year)	**0.20**													

Notes:

[a] Emissions based on highest (controlled) unpaved road emission factor for PM_{10}.

Onsite Construction Vehicle Fugitive $PM_{2.5}$ Emissions from Bldgs. 33 & 34 Construction

	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Onsite Stake Truck	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Onsite Dump Truck	0.00	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.14**	**0.17**	**0.17**	**0.17**	**0.14**	**0.14**	**0.14**	**0.14**	**0.14**	**0.14**	**0.14**	**0.14**	**0.14**	**0.14**
	Fugitive $PM_{2.5}$ Emissions (lbs/month) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
Onsite Stake Truck	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
Onsite Dump Truck	0.00	0.80	0.80	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**3.19**	**3.99**	**3.99**	**3.99**	**3.19**	**3.19**	**3.19**	**3.19**	**3.19**	**3.19**	**3.19**	**3.19**	**3.19**	**3.19**
Onsite Total (tons/year)	**0.02**													

Notes:

[a] Emissions based on the highest (controlled) unpaved road emission factor for $PM_{2.5}$.

Onsite Grading and Bulldozing Fugitive PM_{10} Emissions from Bldgs. 33 & 34 Construction

	Fugitive PM_{10} Emissions (lbs/day) [a, b]													
Construction Activity	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Grading [c]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulldozing	0.00	1.20	1.20	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.00**	**1.21**	**1.21**	**1.21**	**1.21**	**1.21**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
	Fugitive PM_{10} Emissions (lbs/month) [a, b]													
Construction Activity	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Grading	0.00	0.08	0.08	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulldozing	0.00	27.70	27.70	27.70	27.70	27.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**0.00**	**27.78**	**27.78**	**27.78**	**27.78**	**27.78**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Onsite Total (tons/year)	**0.07**													

Notes:

[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23

[b] Emissions based on the highest (controlled) emission factor for PM_{10}.

[c] Per Section 4.3 of Appendix A of the CalEEMod User's Guide, the following blade width was assumed for grading equipment: 12 ft

Table 5.1A.39R Onsite Construction Fugitive Dust Emissions

Onsite Grading and Bulldozing Fugitive $PM_{2.5}$ Emissions from Bldgs. 33 & 34 Construction

Construction Activity	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a, b]													
	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Grading [c]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulldozing	0.00	0.66	0.66	0.66	0.66	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.00**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Construction Activity	**Fugitive $PM_{2.5}$ Emissions (lbs/month) [a, b]**													
	77	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Grading	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulldozing	0.00	15.23	15.23	15.23	15.23	15.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**0.00**	**15.24**	**15.24**	**15.24**	**15.24**	**15.24**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Onsite Total (tons/year)	**0.04**													

Notes:

[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23

[b] Emissions based on the highest (controlled) emission factor for $PM_{2.5}$.

[c] Per Section 4.3 of Appendix A of the CalEEMod User's Guide, the following blade width was assumed for grading equipment: 12 ft

Onsite Construction Vehicle Activity for Bldgs. 33 & 34 Construction

Vehicle Type	Miles/Day [a]	Working Days per
Onsite Pick-up Truck	2	23
Onsite Stake Truck	2	23
Onsite Dump Truck	1	23

Notes:

[a] Estimated based on the dimensions of the project site.

[b] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Fugitive Dust Emission Factors for Unpaved Roads

Vehicles on Unpaved Surfaces at Industrial Sites

Parameter	PM_{10}	$PM_{2.5}$
Mean Vehicle Weight [a]	16.5	16.5
Silt Content [b]	8.5	8.5
k [c]	1.5	0.15
a [c]	0.9	0.9
b [c]	0.45	0.45
P [d]	31	31
Emission Factor (Uncontrolled, lbs/mile) [e]	2.17	0.22
Reduction from Applying Soil Stabilizers [f]	84%	84%
Emission Factor (Controlled, lbs/mile)	0.35	0.03

Notes:

[a] Mean vehicle weight assumes that medium/heavy duty trucks weigh 16.5 tons.

[b] Silt content taken from Table 13.2.2-1 of Section 13.2.2 of AP-42 for a Construction Site, Scraper Route; this value is consistent with the CalEEMod defaults for the South Coast Air Basin.

[c] k, a, and b taken from Table 13.2.2-2 of Section 13.2.2 of AP-42 for industrial roads.

[d] P taken as the CalEEMod default for the Huntington Beach climate region of the South Coast Air Basin.

[e] Emission factor calculated using Equations 1a and 2 from Section 13.2.2 of AP-42:

Emission Factor (lbs/mile) = {k (lbs/mile) x [Silt Content (%) / 12][a] x [Mean Vehicle Weight (tons) / 3][b]} x [(365 - P) / 365]

[f] Control efficiency taken from Table XI-D of the SCAQMD CEQA Handbook for Travel Over Unpaved Roads.

Fugitive Dust Emission Factors for Grading

Grading Equipment Passes

Parameter	PM_{10}	$PM_{2.5}$
S (mph) [a]	7.1	7.1
F [a]	0.6	0.031
Emission Factor (lbs/VMT) [b]	1.543	0.167
Reduction from Applying Soil Stabilizers [c]	84%	84%
Emission Factor (Controlled, lbs/VMT)	0.247	0.027

Notes:

[a] The mean vehicle speed (S) and the particulate matter scaling factor (F) taken from Section 11.9 of AP-42 per Section 4.3 of Appendix A of the CalEEMod User's Guide.

[b] Emission factor calculated using the following equation from Section 4.3 of Appendix A of the CalEEMod User's Guide:

PM_{10} Emission Factor (lbs/VMT) = $0.051 \times (S)^{2.0} \times F_{PM10}$

$PM_{2.5}$ Emission Factor (lbs/VMT) = $0.04 \times (S)^{2.5} \times F_{PM2.5}$

[c] Control efficiency taken from Table XI-A of the SCAQMD CEQA Handbook for Post-demolition Stabilization.

Table 5.1A.39R Onsite Construction Fugitive Dust Emissions

Fugitive Dust Emission Factors for Bulldozing

Bulldozing Equipment Passes

Parameter	PM_{10}	$PM_{2.5}$
C [a]	1.0	5.7
M (%) [a]	7.9	7.9
s (%) [a]	6.9	6.9
F [a]	0.75	0.105
Emission Factor (lbs/hr) [b]	0.753	0.414
Reduction from Applying Soil Stabilizers [c]	84%	84%
Emission Factor (Controlled, lbs/hr)	0.120	0.066

Notes:

[a] The arbitrary coefficient (C), material moisture content (M), material silt content (s), and particulate matter scaling factor (F) taken from Section 11.9 of AP-42 per Section 4.3 of Appendix A of the CalEEMod User's Guide. These values are consistent with the CalEEMod defaults for the South Coast Air Basin.

[b] Emission factor calculated using the following equation from Section 4.3 of Appendix A of the CalEEMod User's Guide:

PM_{10} Emission Factor (lbs/hr) = $[(C \times s^{1.5}) / M^{1.4}] \times F_{PM10}$

$PM_{2.5}$ Emission Factor (lbs/hr) = $[(C \times s^{1.2}) / M^{1.3}] \times F_{PM2.5}$

[c] Control efficiency taken from Table XI-A of the SCAQMD CEQA Handbook for Post-demolition Stabilization.

Table 5.1A.40R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle Usage During Bldgs. 33 & 34 Construction

	Number per Day													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks [a]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Material Hauling Trucks [b]	0.10	2.30	2.10	3.10	4.30	1.30	0.30	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Construction Worker Commute [c]	36.00	49.00	51.00	51.00	49.00	52.00	61.00	62.00	68.00	75.00	63.00	79.00	76.00	0.00

Notes:

[a] Offsite Delivery Trucks include trucks transporting "Consumables & Supplies", as provided in 'Huntington Beach Truck Deliveries 032112.xls'. Due to the revised, shortened construction duration and in the absence of updated engineering data, the last month of delivery data provided in 'Huntington Beach Truck Deliveries 032112.xls' was not utilized.

[b] Material Hauling Trucks include trucks transporting "Fill Material", "Mechanical Equipment", "Electrical Equip. & Mtrls", "Concrete / Rebar / Rubble", "Steel/Architectural", "Contractor Mobilization", "Contractor Demobilization", and "Construction Equipment", as provided in 'Huntington Beach Truck Deliveries 032112.xls'. Due to the revised, shortened construction duration and in the absence of updated engineering data, the last month of hauling data provided in 'Huntington Beach Truck Deliveries 032112.xls' was not utilized.

[c] Assumed 1 commute per 1 worker; number of workers taken from 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'. Due to the revised, shortened construction duration and in the absence of updated engineering data, the first two months of manhour data provided in 'Manpower_Schedule_Huntington_Beach 03.13.12.xls' were not utilized.

Offsite Vehicle CO Emissions from Bldgs. 33 & 34 Construction

	CO Emissions (lbs/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Material Hauling Trucks	0.01	0.26	0.24	0.35	0.49	0.15	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Construction Worker Commute	1.74	2.37	2.46	2.46	2.37	2.51	2.95	3.00	3.29	3.62	3.04	3.82	3.67	0.00
Offsite Total (lbs/day)	**1.76**	**2.63**	**2.71**	**2.82**	**2.86**	**2.67**	**2.99**	**3.01**	**3.30**	**3.64**	**3.06**	**3.83**	**3.69**	**0.02**
	CO Emissions (lbs/month)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Material Hauling Trucks	0.26	6.04	5.52	8.15	11.30	3.42	0.79	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Construction Worker Commute	40.00	54.44	56.67	56.67	54.44	57.78	67.78	68.89	75.56	83.33	70.00	87.78	84.45	0.00
Offsite Total (lbs/month)	**40.38**	**60.60**	**62.30**	**64.92**	**65.86**	**61.31**	**68.68**	**69.26**	**75.93**	**83.71**	**70.38**	**88.15**	**84.82**	**0.37**
Offsite Total (tons/year)	**0.43**													

Offsite Vehicle VOC Emissions from Bldgs. 33 & 34 Construction

	VOC Emissions (lbs/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
Material Hauling Trucks	0.0018	0.0425	0.0388	0.0573	0.0794	0.0240	0.0055	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018
Construction Worker Commute	0.0270	0.0368	0.0383	0.0383	0.0368	0.0390	0.0458	0.0465	0.0510	0.0563	0.0473	0.0593	0.0570	0.0000
Offsite Total (lbs/day)	**0.0299**	**0.0802**	**0.0781**	**0.0965**	**0.1172**	**0.0640**	**0.0523**	**0.0494**	**0.0539**	**0.0591**	**0.0501**	**0.0621**	**0.0599**	**0.0029**
	VOC Emissions (lbs/month)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
Material Hauling Trucks	0.042	0.977	0.892	1.317	1.827	0.552	0.127	0.042	0.042	0.042	0.042	0.042	0.042	0.042
Construction Worker Commute	0.621	0.845	0.880	0.880	0.845	0.897	1.052	1.070	1.173	1.294	1.087	1.363	1.311	0.000
Offsite Total (lbs/month)	**0.687**	**1.846**	**1.795**	**2.220**	**2.696**	**1.473**	**1.203**	**1.135**	**1.239**	**1.359**	**1.152**	**1.428**	**1.377**	**0.066**
Offsite Total (tons/year)	**0.01**													

Offsite Vehicle SOx Emissions from Bldgs. 33 & 34 Construction

	SOx Emissions (lbs/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
Material Hauling Trucks	0.00014	0.00314	0.00287	0.00424	0.00588	0.00178	0.00041	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014
Construction Worker Commute	0.00557	0.00758	0.00789	0.00789	0.00758	0.00805	0.00944	0.00960	0.01052	0.01161	0.00975	0.01223	0.01176	0.00000
Offsite Total (lbs/day)	**0.00576**	**0.01078**	**0.01082**	**0.01218**	**0.01352**	**0.00988**	**0.00991**	**0.00979**	**0.01072**	**0.01180**	**0.00994**	**0.01242**	**0.01195**	**0.00019**
	SOx Emissions (lbs/month)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013
Material Hauling Trucks	0.0031	0.0723	0.0660	0.0975	0.1352	0.0409	0.0094	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031
Construction Worker Commute	0.1281	0.1744	0.1815	0.1815	0.1744	0.1851	0.2171	0.2207	0.2420	0.2670	0.2243	0.2812	0.2705	0.0000
Offsite Total (lbs/month)	**0.1325**	**0.2480**	**0.2488**	**0.2803**	**0.3109**	**0.2272**	**0.2278**	**0.2251**	**0.2464**	**0.2714**	**0.2287**	**0.2856**	**0.2749**	**0.0044**
Offsite Total (tons/year)	**0.0015**													

Table 5.1A.40R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle NOx Emissions from Bldgs. 33 & 34 Construction

	NOx Emissions (lbs/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.012	0.012	0.012	0.012	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Material Hauling Trucks	0.026	0.603	0.550	0.813	1.127	0.297	0.068	0.023	0.023	0.023	0.023	0.023	0.023	0.023
Construction Worker Commute	0.154	0.209	0.218	0.218	0.209	0.831	0.975	0.991	1.086	1.198	1.007	1.262	1.214	0.000
Offsite Total (lbs/day)	**0.192**	**0.825**	**0.781**	**1.043**	**1.349**	**1.139**	**1.054**	**1.025**	**1.120**	**1.232**	**1.041**	**1.296**	**1.248**	**0.034**
	NOx Emissions (lbs/month)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.282	0.282	0.282	0.282	0.282	0.258	0.258	0.258	0.258	0.258	0.258	0.258	0.258	0.258
Material Hauling Trucks	0.603	13.866	12.661	18.690	25.924	6.821	1.574	0.525	0.525	0.525	0.525	0.525	0.525	0.525
Construction Worker Commute	3.539	4.817	5.013	5.013	4.817	19.108	22.415	22.782	24.987	27.559	23.150	29.029	27.926	0.000
Offsite Total (lbs/month)	**4.423**	**18.965**	**17.956**	**23.984**	**31.022**	**26.186**	**24.246**	**23.564**	**25.769**	**28.341**	**23.932**	**29.811**	**28.709**	**0.782**
Offsite Total (tons/year)	**0.151**													

Offsite Vehicle PM_{10} Emissions from Bldgs. 33 & 34 Construction

	PM_{10} Emissions (lbs/day) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Material Hauling Trucks	0.004	0.096	0.088	0.130	0.180	0.054	0.012	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Construction Worker Commute	0.571	0.778	0.809	0.809	0.778	0.826	0.969	0.985	1.080	1.191	1.000	1.255	1.207	0.000
Offsite Total (lbs/day)	**0.577**	**0.876**	**0.899**	**0.941**	**0.959**	**0.881**	**0.983**	**0.990**	**1.086**	**1.197**	**1.006**	**1.260**	**1.213**	**0.006**
	PM_{10} Emissions (lbs/month) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.037	0.037	0.037	0.037	0.037	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
Material Hauling Trucks	0.096	2.218	2.025	2.990	4.147	1.234	0.285	0.095	0.095	0.095	0.095	0.095	0.095	0.095
Construction Worker Commute	13.139	17.883	18.613	18.613	17.883	18.992	22.280	22.645	24.836	27.393	23.010	28.854	27.758	0.000
Offsite Total (lbs/month)	**13.272**	**20.139**	**20.676**	**21.640**	**22.067**	**20.263**	**22.601**	**22.776**	**24.968**	**27.524**	**23.141**	**28.985**	**27.889**	**0.131**
Offsite Total (tons/year)	**0.141**													

Notes:
[a] PM_{10} Emissions include emissions from exhaust and paved roads.

Offsite Vehicle $PM_{2.5}$ Emissions from Bldgs. 33 & 34 Construction

	$PM_{2.5}$ Emissions (lbs/day) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
Material Hauling Trucks	0.0018	0.0425	0.0388	0.0573	0.0795	0.0233	0.0054	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018
Construction Worker Commute	0.1601	0.2179	0.2268	0.2268	0.2179	0.2312	0.2712	0.2757	0.3023	0.3335	0.2801	0.3512	0.3379	0.0000
Offsite Total (lbs/day)	**0.1626**	**0.2611**	**0.2663**	**0.2848**	**0.2981**	**0.2552**	**0.2773**	**0.2781**	**0.3048**	**0.3359**	**0.2826**	**0.3537**	**0.3404**	**0.0025**
	$PM_{2.5}$ Emissions (lbs/month) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
Material Hauling Trucks	0.043	0.978	0.893	1.318	1.828	0.536	0.124	0.041	0.041	0.041	0.041	0.041	0.041	0.041
Construction Worker Commute	3.681	5.011	5.215	5.215	5.011	5.318	6.238	6.340	6.954	7.670	6.443	8.079	7.772	0.000
Offsite Total (lbs/month)	**3.740**	**6.005**	**6.125**	**6.550**	**6.855**	**5.869**	**6.377**	**6.397**	**7.011**	**7.727**	**6.499**	**8.136**	**7.829**	**0.057**
Offsite Total (tons/year)	**0.041**													

Notes:
[a] $PM_{2.5}$ Emissions include emissions from exhaust and paved roads.

Table 5.1A.40R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle CO_2 Emissions from Bldgs. 33 & 34 Construction

	CO_2 Emissions (metric tons/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Material Hauling Trucks	0.007	0.151	0.138	0.203	0.282	0.085	0.020	0.007	0.007	0.007	0.007	0.007	0.007	0.007
Construction Worker Commute	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Offsite Total (metric tons/day)	**0.009**	**0.154**	**0.140**	**0.206**	**0.285**	**0.088**	**0.022**	**0.009**	**0.009**	**0.009**	**0.009**	**0.009**	**0.009**	**0.009**
	CO_2 Emissions (metric tons/month)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Material Hauling Trucks	0.15	3.47	3.17	4.68	6.49	1.96	0.45	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Construction Worker Commute	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite Total (metric tons/month)	**0.21**	**3.53**	**3.23**	**4.74**	**6.55**	**2.02**	**0.51**	**0.21**	**0.21**	**0.21**	**0.21**	**0.21**	**0.21**	**0.21**
Offsite Total (metric tons/year)	**21.8**													

Offsite Vehicle N_2O Emissions from Bldgs. 33 & 34 Construction

	N_2O Emissions (metric tons/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007
Material Hauling Trucks	0.000000019	0.000000442	0.000000403	0.000000595	0.000000826	0.000000250	0.000000058	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019
Construction Worker Commute	0.0000028	0.0000038	0.0000040	0.0000040	0.0000038	0.0000040	0.0000047	0.0000048	0.0000053	0.0000058	0.0000049	0.0000061	0.0000059	0.0000000
Offsite Total (metric tons/day)	**0.00000283**	**0.00000426**	**0.00000438**	**0.00000457**	**0.00000464**	**0.00000430**	**0.00000481**	**0.00000485**	**0.00000531**	**0.00000586**	**0.00000493**	**0.00000617**	**0.00000594**	**0.00000003**
	N_2O Emissions (metric tons/month)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002
Material Hauling Trucks	0.0000004	0.0000102	0.0000093	0.0000137	0.0000190	0.0000057	0.0000013	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004
Construction Worker Commute	0.0000644	0.0000876	0.0000912	0.0000912	0.0000876	0.0000930	0.0001091	0.0001109	0.0001216	0.0001341	0.0001127	0.0001413	0.0001359	0.0000000
Offsite Total (metric tons/month)	**0.000065**	**0.000098**	**0.000101**	**0.000105**	**0.000107**	**0.000099**	**0.000111**	**0.000111**	**0.000122**	**0.000135**	**0.000113**	**0.000142**	**0.000137**	**0.000001**
Offsite Total (metric tons/year)	**0.0014**													

Offsite Vehicle CH_4 Emissions from Bldgs. 33 & 34 Construction

	CH_4 Emissions (metric tons/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007
Material Hauling Trucks	0.000000020	0.000000469	0.000000428	0.000000632	0.000000877	0.000000265	0.000000061	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020
Construction Worker Commute	0.0000135	0.0000183	0.0000191	0.0000191	0.0000183	0.0000194	0.0000228	0.0000232	0.0000254	0.0000280	0.0000235	0.0000295	0.0000284	0.0000000
Offsite Total (metric tons/day)	**0.00001348**	**0.00001879**	**0.00001949**	**0.00001970**	**0.00001919**	**0.00001970**	**0.00002286**	**0.00002320**	**0.00002544**	**0.00002805**	**0.00002357**	**0.00002955**	**0.00002843**	**0.00000003**
	CH_4 Emissions (metric tons/month)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.00000017	0.00000017	0.00000017	0.00000017	0.00000017	0.00000017	0.00000017	0.00000017	0.00000017	0.00000017	0.00000017	0.00000017	0.00000017	0.00000017
Material Hauling Trucks	0.00000047	0.00001079	0.00000985	0.00001455	0.00002018	0.00000610	0.00000141	0.00000047	0.00000047	0.00000047	0.00000047	0.00000047	0.00000047	0.00000047
Construction Worker Commute	0.0003094	0.0004211	0.0004383	0.0004383	0.0004211	0.0004469	0.0005243	0.0005329	0.0005844	0.0006446	0.0005415	0.0006790	0.0006532	0.0000000
Offsite Total (metric tons/month)	**0.0003100**	**0.0004321**	**0.0004484**	**0.0004530**	**0.0004415**	**0.0004532**	**0.0005259**	**0.0005335**	**0.0005851**	**0.0006452**	**0.0005421**	**0.0006796**	**0.0006538**	**0.0000006**
Offsite Total (metric tons/year)	**0.0064**													

Offsite Construction Vehicle Activity for Bldgs. 33 & 34 Construction

Vehicle Type	**Roundtrip Miles/Day** [a]	**Working Days per Month** [b]
Offsite Delivery Trucks	14.6	23
Material Hauling Trucks	40.0	23
Construction Worker Commute	21.6	23

Notes:

[a] Roundtrip miles/day taken as the CalEEMod defaults for the South Coast Air Basin.

[b] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Table 5.1A.41R Equations Used to Calculate Criteria Pollutant and GHG Emissions

Equations Used to Calculate Emissions from Bldgs. 33 & 34 Construction

Emission Source	Pollutant(s)	Equation	Variables
Construction Equipment Exhaust	CO, VOC, NOx, SOx, PM_{10}, and $PM_{2.5}$	$E_m = EF * N * Hp * L * H / 453.6$	E_m = Emissions (lbs/month)
			EF = Emission factor (g/bhp-hr)
			N = Number of pieces of equipment
			Hp = Average horsepower
			L = Average load factor
			H = Hours per month
			453.6 = Conversion from g to lbs
		$E_d = E_m / D$	E_d = Emissions (lbs/day)
			E_m = Emissions (lbs/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons
	CO_2	$E_m = N * FC * EF * H * 0.001$	E_m = Emissions (metric tons/month)
			N = Number of pieces of equipment
			FC = Fuel consumption (gallons/hour)
			EF = Emission factor (kg/gallon)
			H = Hours per month
			0.001 = Conversion from kg to metric tons
		$E_d = E_m / D$	E_d = Emissions (metric tons/day)
			E_m = Emissions (metric tons/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
	CH_4 and N_2O	$E_m = N * FC * EF * H / 1{,}000 * 0.001$	E_m = Emissions (metric tons/month)
			N = Number of pieces of equipment
			FC = Fuel consumption (gallons/hour)
			EF = Emission factor (g/gallon)
			H = Hours per month
			1,000 = Conversion from g to kg
			0.001 = Conversion from kg to metric tons
		$E_d = E_m / D$	E_d = Emissions (metric tons/day)
			E_m = Emissions (metric tons/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
Onsite and Offsite Vehicle Exhaust and Paved and Unpaved Road Fugitive PM_{10} and $PM_{2.5}$	CO, VOC, NOx, SOx, PM_{10}, and $PM_{2.5}$	$E_d = N * VMT * EF / 453.6$	E_d = Emissions (lbs/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			EF = EMFAC2007 emission factor (g/mile). Paved and unpaved road fugitive PM_{10} and $PM_{2.5}$ emission factors calculated per Sections 13.2.1 and 13.2.2 of AP-42, respectively.
			453.6 = Conversion from g to lbs
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons

Table 5.1A.41R Equations Used to Calculate Criteria Pollutant and GHG Emissions

Equations Used to Calculate Emissions from Bldgs. 33 & 34 Construction

Emission Source	Pollutant(s)	Equation	Variables
Onsite and Offsite Vehicle Exhaust	CO_2	$E_d = N * VMT / FE * EF * 0.001$	E_d = Emissions (metric tons/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			FE = Fuel economy (mpg)
			EF = Emission factor (kg/gallon)
			0.001 = Conversion from kg to metric tons
		$E_m = E_d * D$	E_m = Emissions (metric tons/month)
			E_d = Emissions (metric tons/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
	CH_4 and N_2O	$E_d = N * VMT * EF / 1{,}000 * 0.001$	E_d = Emissions (metric tons/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			EF = Emission factor (g/mile)
			1,000 = Conversion from g to kg
			0.001 = Conversion from kg to metric tons
		$E_m = E_d * D$	E_m = Emissions (metric tons/month)
			E_d = Emissions (metric tons/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
Onsite Fugitive PM_{10} and $PM_{2.5}$ from Grading	PM_{10} and $PM_{2.5}$	$E_d = EF$ x A / W x 43,560 / 5,280 / D	E_d = Emissions (lbs/day)
			EF = Fugitive PM_{10} and $PM_{2.5}$ emission factors (lbs/mile), calculated per Section 4.3 of Appendix A of the CalEEMod User's Guide.
			A = Site disturbed (acres/month)
			W = Grading equipment blade width (ft)
			43,560 = Conversion factor from square feet to acres
			5,280 = Conversion factor from feet to miles
			D = Number of construction days per month
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons
Onsite Fugitive PM_{10} and $PM_{2.5}$ from Bulldozing	PM_{10} and $PM_{2.5}$	$E_d = EF$ x H / D	E_d = Emissions (lbs/day)
			EF = Fugitive PM_{10} and $PM_{2.5}$ emission factors (lbs/mile), calculated per Section 4.3 of Appendix A of the CalEEMod User's Guide.
			H = Hours per month for all bulldozers
			D = Number of construction days per month
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons

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Table 5.1A.42R Number of Onsite Construction Equipment and Motor Vehicles

Number of Onsite Equipment for Bldgs. 33 & 34 Construction

Onsite Equipment	Number per Month [a]													
	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Grader	0	1	1	1	1	1	0	0	0	0	0	0	0	0
Cranes	0	0	0	1	1	1	1	1	1	1	1	1	1	1
Tractor/Loader/Backhoe [b]	0	1	1	1	1	1	0	0	0	0	0	0	0	0
Rubber Tired Loader [c]	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Crawler Tractor [d]	0	1	1	1	1	1	0	0	0	0	0	0	0	0
Air Compressor	1	1	1	1	0	0	0	0	0	0	0	0	0	0
Roller [e]	0	1	1	1	1	1	0	0	0	0	0	0	0	0

Notes:

[a] Equipment counts taken from 'HBEP Equipment Usage 01.21.13.xls'.

[b] Numbers presented for Tractor/Loader/Backhoe includes the equipment counts for the Backhoe.

[c] Numbers presented for Rubber Tired Loader includes the equipment counts for the Front End Loader.

[d] Numbers presented for Crawler Tractor includes the equipment counts for the Dozer

[e] Numbers presented for Roller includes the equipment counts for the Compactor.

Number of Onsite Motor Vehicles for Bldgs. 33 & 34 Construction

Vehicle Type	Number per Month [a]													
	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Onsite Pick-up Truck	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Onsite Stake Truck	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Onsite Dump Truck	0	1	1	1	0	0	0	0	0	0	0	0	0	0

Notes:

[a] Vehicle counts taken from 'HBEP Equipment Usage 01.21.13.xls'.

Table 5.1A.43R Construction Equipment Exhaust Criteria Pollutant Emission Factors

Construction Equipment Emission Factors for Bldgs. 33 & 34 Construction

Equipment [a]	Percent Usage [b]	Hours per Month [c]	Horsepower [d]	Load Factor [d]	Emission Factors (g/bhp-hr) [e]									Fuel Consumption (gallons/hour) [f]
					CO	VOC	NO_X 2021	NO_X 2022	SO_X	PM_{10} 2021	PM_{10} 2022	$PM_{2.5}$ 2021	$PM_{2.5}$ 2022	
Grader	80%	184	162	0.61	3.337	0.391	2.300	2.046	0.006	0.122	0.107	0.122	0.107	5.64
Cranes	65%	150	208	0.43	1.219	0.337	2.231	1.979	0.006	0.077	0.068	0.077	0.068	5.07
Tractor/Loader/Backhoe	55%	127	75	0.55	3.728	0.373	2.499	2.321	0.006	0.118	0.099	0.118	0.099	2.36
Rubber Tired Loader	55%	127	87	0.54	3.820	0.501	3.155	2.929	0.006	0.198	0.171	0.198	0.171	2.69
Crawler Tractor	80%	184	82	0.64	3.977	0.673	3.959	3.710	0.006	0.290	0.262	0.290	0.262	3.01
Air Compressor	80%	184	78	0.48	3.670	0.442	3.083	2.844	0.006	0.190	0.165	0.190	0.165	2.14
Roller	60%	138	84	0.56	3.712	0.509	3.395	3.150	0.006	0.228	0.199	0.228	0.199	2.69

Notes:

[a] Assumed all equipment is fired with diesel fuel, per Section 4.2 of Appendix A of the CalEEMod User's Guide.

[b] Percent Usage assumed typical of power plant construction.

[c] Hours per month calculated based on the following schedule, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Work hours per day: 10
Work days per month: 23

[d] Construction equipment horsepower and load factor taken from Table 3.3 of Appendix D of the CalEEMod User's Guide.

[e] Construction equipment emission factors taken from Table 3.4 of Appendix D of the CalEEMod User's Guide. The emission factors for the year 2021 were used for the construction equipment exhaust emission calculations for CO, VOC, and SOx. The emission factors for years 2021 and 2022 were used for NOx, PM10, and PM2.5.

[f] Fuel consumption based on consumption in the OFFROAD2007 model for the SCAB in the year 2021; value estimated by dividing the reported consumption (gallons/day) by the reported activity (hours/day).

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Table 5.1A.44R Onsite and Offsite Motor Vehicle Criteria Pollutant Emission Factors

Vehicle Emission Factors for Bldgs. 33 & 34 Construction

Vehicle Type	Vehicle Class [a]	Exhaust Emission Factors (g/mile) [b]									Paved Road Emission Factors (g/mile) [c]		Fuel Economy (mpg) [b]
		CO	VOC	SO_X	NO_X 2021	NO_X 2022	PM_{10} 2021	PM_{10} 2022	$PM_{2.5}$ 2021	$PM_{2.5}$ 2022	PM_{10}	$PM_{2.5}$	
Onsite Pick-up Truck	Light-duty Truck	2.402	0.143	0.011	0.223	0.207	0.128	0.129	0.106	0.107	N/A	N/A	7.473
Onsite Stake Truck	Heavy-duty Diesel	7.170	3.891	0.037	11.246	10.375	0.430	0.368	0.357	0.301	N/A	N/A	2.621
Onsite Dump Truck	Heavy-duty Diesel	7.170	3.891	0.037	11.246	10.375	0.430	0.368	0.357	0.301	N/A	N/A	2.621
Offsite Delivery Trucks	Heavy-duty Diesel	1.516	0.313	0.017	3.805	3.481	0.201	0.190	0.147	0.137	0.300	0.075	5.749
Material Hauling Trucks	Heavy/Medium-duty Diesel	1.296	0.210	0.016	2.973	2.587	0.175	0.168	0.135	0.128	0.300	0.075	6.224
Construction Worker Commute	Light-duty Auto/Truck	1.015	0.016	0.003	0.090	0.336	0.033	0.033	0.018	0.018	0.300	0.075	27.539

Notes:

[a] The vehicle classes are represented as follows:

Light-duty Truck: Assumed to be an average of LDT1, All and LDT2, All values.
Heavy-duty Diesel: Assumed to be 100% HHD DSL values, as confirmed in Section 4.5 of Appendix A of the CalEEMod User's Guide.
Heavy/Medium-duty Diesel: 50% HHD DSL and 50% MHD DSL values, per Section 4.5 of Appendix A of the CalEEMod User's Guide.
Light-duty Auto/Truck: 50% LDA, All; 25% LDT1, All; and 25% LDT2, All values, per Section 4.5 of Appendix A of the CalEEMod User's Guide.

[b] Exhaust emission factors and fuel economy from EMFAC2007 for the South Coast Air Basin, calendar year 2021 for CO, VOC, and SOx. Calendar years 2021 and 2022 were used for NOx, PM10, and PM2.5. A speed of 5 mph was assumed for onsite vehicles; a speed of 40 mph was assumed for offsite vehicles and worker commutes, which is consistent with the CalEEMod defaults. An average temperature of 68°F and humidity of 55% were used per Table B-1 of CT-EMFAC: A Computer Model to Estimate Transportation Project Emissions.

[c] Paved road emission factors calculated using CalEEMod methodology, as described below.

Derivation of Paved Road Emission Factors

Vehicles on Paved Roads

Parameter	PM_{10}	$PM_{2.5}$
Average Weight [a]	2.4	2.4
k [b]	1.0	0.25
sL [a]	0.1	0.1
Emission Factor (g/mile) [c]	0.300	0.075

Notes:

[a] Average Weight and sL taken as the default value from CalEEMod.

[b] k taken from Table 13.2.1-1 of Section 13.2.1 of AP-42.

[c] Emission factor calculated using Equation 1 from Section 13.2.1 of AP-42:

$$\text{Emission Factor (g/mile)} = k \text{ (g/mile)} \times [sL \text{ (g/m}^2)]^{0.91} \times [\text{Average Weight (tons)}]^{1.02}$$

Huntington Beach Energy Project
Construction Emission Estimates - Buildings 33 and 34 Construction
April 2014

Table 5.1A.45R Onsite and Offsite Greenhouse Gas Emission Factors

Greenhouse Gas Emission Factors for Bldgs. 33 & 34 Construction

Fuel / Category Type	Emission Factor	Emission Factor Units	Emission Factor Source
CO_2 Emission Factors			
Gasoline	8.78	kg CO_2/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.1, May 2008 as updated through January 2012.
Diesel	10.21	kg CO_2/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.1, May 2008 as updated through January 2012.
N_2O Emission Factors			
Gasoline Passenger Car Model Year 2009 [a]	0.0036	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Gasoline Light-duty Truck Model Year 2009 [a]	0.0066	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Heavy-duty Truck Model Year 1960 - 2009 [a]	0.0048	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Off-road Vehicle	0.26	g N_2O/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.7, May 2008 as updated through January 2012.
CH_4 Emission Factors			
Gasoline Passenger Car Model Year 2009 [a]	0.0173	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Gasoline Light-duty Truck Model Year 2009 [a]	0.0163	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Heavy-duty Truck Model Year 1960 - 2009 [a]	0.0051	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Off-road Vehicle	0.58	g CH_4/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.7, May 2008 as updated through January 2012.

Notes:

[a] Model Year 2009 was the most recent year of emission factors available. As a result, it was assumed representative of vehicles used for this project.

Table 5.1A.46R Onsite Construction
Exhaust and Fugitive Emissions Summary

Onsite CO Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)	642.06	642.06	640.80	811.24	868.31	868.31	868.31	868.31	998.25	957.75	957.75	963.80	1,098.33	1,098.33	1,098.33																	
Total (lbs/day)	27.92	27.92	27.86	35.27	37.75	37.75	37.75	37.75	43.40	41.64	41.64	41.90	47.75	47.75	47.75																	
Block 1 Construction																																
Total (lbs/month)																1,292.23	1,292.23	1,153.77	1,232.42	820.88	603.94	682.04	682.04	721.36	721.36	680.95	680.95	720.27	590.44	551.12	551.12	551.12
Total (lbs/day)																56.18	56.18	50.16	53.58	35.69	26.26	29.65	29.65	31.36	31.36	29.61	29.61	31.32	25.67	23.96	23.96	23.96
Block 2 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite CO Emissions (Construction Equipment and Vehicles)																																
Pounds per Month	**642.06**	**642.06**	**640.80**	**811.24**	**868.31**	**868.31**	**868.31**	**868.31**	**998.25**	**957.75**	**957.75**	**963.80**	**1,098.33**	**1,098.33**	**1,098.33**	**1,292.23**	**1,292.23**	**1,153.77**	**1,232.42**	**820.88**	**603.94**	**682.04**	**682.04**	**721.36**	**721.36**	**680.95**	**680.95**	**720.27**	**590.44**	**551.12**	**551.12**	**551.12**
Pounds per Day	**27.92**	**27.92**	**27.86**	**35.27**	**37.75**	**37.75**	**37.75**	**37.75**	**43.40**	**41.64**	**41.64**	**41.90**	**47.75**	**47.75**	**47.75**	**56.18**	**56.18**	**50.16**	**53.58**	**35.69**	**26.26**	**29.65**	**29.65**	**31.36**	**31.36**	**29.61**	**29.61**	**31.32**	**25.67**	**23.96**	**23.96**	**23.96**
Yearly Maximums	**10,087**	**10,543**	**10,999**	**11,457**	**11,938**	**12,362**	**12,647**	**13,011**	**12,964**	**12,570**	**12,294**	**12,018**	**11,776**	**11,399**	**10,982**	**10,564**	**9,992**	**9,290**	**8,688**	**8,006**	**7,737**	**7,684**	**7,474**	**7,265**	**7,370**	**8,237**	**9,145**	**9,727**	**10,267**	**10,713**	**11,015**	**11,317**

Maximum Pounds per Day	**69.06**
Maximum Pounds per Hour [a]	**6.91**
Maximum Pounds per Month	**1,588.30**
Month with Maximum	**37 or 38**
Maximum Pounds per Year	**14,505**
Maximum Average Pounds per Hour [b]	**1.66**
Year with Maximum	**Months 78 - 89**
Tons per Year	**7.25**

Onsite VOC Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)	133.40	133.40	144.82	179.14	187.42	187.42	187.42	187.42	207.94	194.14	194.14	198.92	222.77	222.77	222.77																	
Total (lbs/day)	5.80	5.80	6.30	7.79	8.15	8.15	8.15	8.15	9.04	8.44	8.44	8.65	9.69	9.69	9.69																	
Block 1 Construction																																
Total (lbs/month)																235.92	235.92	206.45	232.57	161.54	122.85	148.65	148.65	161.71	161.71	148.01	148.01	161.07	142.09	129.03	129.03	129.03
Total (lbs/day)																10.26	10.26	8.98	10.11	7.02	5.34	6.46	6.46	7.03	7.03	6.44	6.44	7.00	6.18	5.61	5.61	5.61
Block 2 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite VOC Emissions (Construction Equipment and Vehicles)																																
Pounds per Month	**133.40**	**133.40**	**144.82**	**179.14**	**187.42**	**187.42**	**187.42**	**187.42**	**207.94**	**194.14**	**194.14**	**198.92**	**222.77**	**222.77**	**222.77**	**235.92**	**235.92**	**206.45**	**232.57**	**161.54**	**122.85**	**148.65**	**148.65**	**161.71**	**161.71**	**148.01**	**148.01**	**161.07**	**142.09**	**129.03**	**129.03**	**129.03**
Pounds per Day	**5.80**	**5.80**	**6.30**	**7.79**	**8.15**	**8.15**	**8.15**	**8.15**	**9.04**	**8.44**	**8.44**	**8.65**	**9.69**	**9.69**	**9.69**	**10.26**	**10.26**	**8.98**	**10.11**	**7.02**	**5.34**	**6.46**	**6.46**	**7.03**	**7.03**	**6.44**	**6.44**	**7.00**	**6.18**	**5.61**	**5.61**	**5.61**
Yearly Maximums	**2,136**	**2,225**	**2,314**	**2,392**	**2,449**	**2,498**	**2,517**	**2,562**	**2,536**	**2,451**	**2,405**	**2,360**	**2,323**	**2,261**	**2,187**	**2,112**	**2,037**	**1,943**	**1,866**	**1,762**	**1,730**	**1,736**	**1,690**	**1,645**	**1,649**	**1,764**	**1,894**	**1,968**	**2,027**	**2,072**	**2,113**	**2,154**

Maximum Pounds per Day	**12.05**
Maximum Pounds per Hour [a]	**1.21**
Maximum Pounds per Month	**277.25**
Month with Maximum	**37 or 38**
Maximum Pounds per Year	**2,562**
Maximum Average Pounds per Hour [b]	**0.29**
Year with Maximum	**Months 8 - 19**
Tons per Year	**1.28**

Onsite NOx Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)	894.53	894.53	1,018.01	1,286.40	1,345.15	1,345.15	1,345.15	1,345.15	1,489.83	1,231.65	1,231.65	1,259.93	1,418.47	1,418.47	1,418.47																	
Total (lbs/day)	38.89	38.89	44.26	55.93	58.48	58.48	58.48	58.48	64.78	53.55	53.55	54.78	61.67	61.67	61.67																	
Block 1 Construction																																
Total (lbs/month)																1,441.95	1,441.95	1,263.68	1,488.78	1,103.48	858.06	974.85	974.85	1,076.90	1,076.90	973.16	973.16	1,075.22	962.28	860.23	860.23	860.23
Total (lbs/day)																62.69	62.69	54.94	64.73	47.98	37.31	42.38	42.38	46.82	46.82	42.31	42.31	46.75	41.84	37.40	37.40	37.40
Block 2 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite NOx Emissions (Construction Equipment and Vehicles)																																
Pounds per Month	**894.53**	**894.53**	**1,018.01**	**1,286.40**	**1,345.15**	**1,345.15**	**1,345.15**	**1,345.15**	**1,489.83**	**1,231.65**	**1,231.65**	**1,259.93**	**1,418.47**	**1,418.47**	**1,418.47**	**1,441.95**	**1,441.95**	**1,263.68**	**1,488.78**	**1,103.48**	**858.06**	**974.85**	**974.85**	**1,076.90**	**1,076.90**	**973.16**	**973.16**	**1,075.22**	**962.28**	**860.23**	**860.23**	**860.23**
Pounds per Day	**38.89**	**38.89**	**44.26**	**55.93**	**58.48**	**58.48**	**58.48**	**58.48**	**64.78**	**53.55**	**53.55**	**54.78**	**61.67**	**61.67**	**61.67**	**62.69**	**62.69**	**54.94**	**64.73**	**47.98**	**37.31**	**42.38**	**42.38**	**46.82**	**46.82**	**42.31**	**42.31**	**46.75**	**41.84**	**37.40**	**37.40**	**37.40**
Yearly Maximums	**14,687**	**15,211**	**15,735**	**16,135**	**16,291**	**16,388**	**16,306**	**16,450**	**16,208**	**15,577**	**15,320**	**15,063**	**14,880**	**14,538**	**14,093**	**13,648**	**13,281**	**12,801**	**12,398**	**11,769**	**11,526**	**11,528**	**11,143**	**10,758**	**10,675**	**11,304**	**12,037**	**12,426**	**12,712**	**12,894**	**13,123**	**13,352**

Maximum Pounds per Day	**74.19**
Maximum Pounds per Hour [a]	**7.42**
Maximum Pounds per Month	**1,706.30**
Month with Maximum	**37 or 38**
Maximum Pounds per Year	**16,450**
Maximum Average Pounds per Hour [b]	**1.88**
Year with Maximum	**Months 8 - 19**
Tons per Year	**8.22**

Huntington Beach Energy Project
Construction Emission Estimates - All Project Stages
April 2014

Table 5.1A.46R Onsite Construction
Exhaust and Fugitive Emissions Summary

Onsite SOx Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)	1.22	1.22	1.43	1.84	1.94	1.94	1.94	1.94	2.18	2.00	2.00	1.99	2.23	2.23	2.23																	
Total (lbs/day)	0.05	0.05	0.06	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.10	0.10	0.10																	
Block 1 Construction																																
Total (lbs/month)																2.34	2.34	2.14	2.49	1.77	1.41	1.76	1.76	1.94	1.94	1.76	1.76	1.93	1.70	1.52	1.52	1.52
Total (lbs/day)																0.10	0.10	0.09	0.11	0.08	0.06	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07
Block 2 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite SOx Emissions (Construction Equipment and Vehicles)																																
Pounds per Month	**1.22**	**1.22**	**1.43**	**1.84**	**1.94**	**1.94**	**1.94**	**1.94**	**2.18**	**2.00**	**2.00**	**1.99**	**2.23**	**2.23**	**2.23**	**2.34**	**2.34**	**2.14**	**2.49**	**1.77**	**1.41**	**1.76**	**1.76**	**1.94**	**1.94**	**1.76**	**1.76**	**1.93**	**1.70**	**1.52**	**1.52**	**1.52**
Pounds per Day	**0.05**	**0.05**	**0.06**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.09**	**0.09**	**0.09**	**0.09**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.09**	**0.11**	**0.08**	**0.06**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.07**	**0.07**	**0.07**	**0.07**
Yearly Maximums	**22**	**23**	**24**	**24**	**25**	**25**	**26**	**26**	**26**	**25**	**25**	**25**	**25**	**24**	**24**	**23**	**23**	**22**	**22**	**21**	**21**	**21**	**20**	**19**	**19**	**21**	**22**	**23**	**24**	**25**	**25**	**26**

Maximum Pounds per Day	**0.14**
Maximum Pounds per Hour [a]	**0.01**
Maximum Pounds per Month	**3.24**
Month with Maximum	**37 or 38**
Maximum Pounds per Year	**32**
Maximum Average Pounds per Hour [b]	**0.00**
Year with Maximum	**Months 78 - 89**
Tons per Year	**0.02**

Onsite Exhaust PM_{10} Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)	57.43	57.43	59.12	71.26	74.46	74.46	74.46	74.46	82.32	69.47	69.47	73.22	81.96	81.96	81.96																	
Total (lbs/day)	2.50	2.50	2.57	3.10	3.24	3.24	3.24	3.24	3.58	3.02	3.02	3.18	3.56	3.56	3.56																	
Block 1 Construction																																
Total (lbs/month)																98.69	98.69	84.01	91.73	62.56	45.87	47.30	47.30	50.77	50.77	47.21	47.21	50.69	44.71	41.23	41.23	41.23
Total (lbs/day)																4.29	4.29	3.65	3.99	2.72	1.99	2.06	2.06	2.21	2.21	2.05	2.05	2.20	1.94	1.79	1.79	1.79
Block 2 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite Exhaust PM_{10} Emissions (Construction Equipment and Vehicles)																																
Pounds per Month	**57.43**	**57.43**	**59.12**	**71.26**	**74.46**	**74.46**	**74.46**	**74.46**	**82.32**	**69.47**	**69.47**	**73.22**	**81.96**	**81.96**	**81.96**	**98.69**	**98.69**	**84.01**	**91.73**	**62.56**	**45.87**	**47.30**	**47.30**	**50.77**	**50.77**	**47.21**	**47.21**	**50.69**	**44.71**	**41.23**	**41.23**	**41.23**
Pounds per Day	**2.50**	**2.50**	**2.57**	**3.10**	**3.24**	**3.24**	**3.24**	**3.24**	**3.58**	**3.02**	**3.02**	**3.18**	**3.56**	**3.56**	**3.56**	**4.29**	**4.29**	**3.65**	**3.99**	**2.72**	**1.99**	**2.06**	**2.06**	**2.21**	**2.21**	**2.05**	**2.05**	**2.20**	**1.94**	**1.79**	**1.79**	**1.79**
Yearly Maximums	**838**	**862**	**887**	**909**	**937**	**961**	**971**	**988**	**976**	**940**	**917**	**895**	**873**	**842**	**807**	**772**	**724**	**670**	**627**	**577**	**556**	**551**	**534**	**516**	**518**	**565**	**616**	**642**	**665**	**683**	**694**	**705**

Maximum Pounds per Day	**4.29**
Maximum Pounds per Hour [a]	**0.43**
Maximum Pounds per Month	**98.69**
Month with Maximum	**16 or 17**
Maximum Pounds per Year	**988**
Maximum Average Pounds per Hour [b]	**0.11**
Year with Maximum	**Months 8 - 19**
Tons per Year	**0.49**

Onsite Fugitive PM_{10} Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)	68.21	68.21	84.16	84.16	84.16	84.16	84.16	84.16	84.16	84.16	84.16	68.21	68.21	68.21	68.21																	
Total (lbs/day)	2.97	2.97	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	2.97	2.97	2.97	2.97																	
Block 1 Construction																																
Total (lbs/month)																135.39	135.39	107.69	107.69	107.46	79.76	71.78	71.78	71.78	71.78	55.83	55.83	55.83	55.83	55.83	55.83	55.83
Total (lbs/day)																5.89	5.89	4.68	4.68	4.67	3.47	3.12	3.12	3.12	3.12	2.43	2.43	2.43	2.43	2.43	2.43	2.43
Block 2 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite Fugitive PM_{10} Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																																
Pounds per Month	**68.21**	**68.21**	**84.16**	**84.16**	**84.16**	**84.16**	**84.16**	**84.16**	**84.16**	**84.16**	**84.16**	**68.21**	**68.21**	**68.21**	**68.21**	**135.39**	**135.39**	**107.69**	**107.69**	**107.46**	**79.76**	**71.78**	**71.78**	**71.78**	**71.78**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**
Pounds per Day	**2.97**	**2.97**	**3.66**	**3.66**	**3.66**	**3.66**	**3.66**	**3.66**	**3.66**	**3.66**	**3.66**	**2.97**	**2.97**	**2.97**	**2.97**	**5.89**	**5.89**	**4.68**	**4.68**	**4.67**	**3.47**	**3.12**	**3.12**	**3.12**	**3.12**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**
Yearly Maximums	**962**	**962**	**962**	**946**	**997**	**1,049**	**1,072**	**1,096**	**1,119**	**1,114**	**1,102**	**1,090**	**1,093**	**1,097**	**1,085**	**1,072**	**993**	**913**	**861**	**809**	**758**	**734**	**718**	**702**	**754**	**873**	**1,008**	**1,116**	**1,215**	**1,315**	**1,387**	**1,450**

Maximum Pounds per Day	**8.31**
Maximum Pounds per Hour [a]	**0.83**
Maximum Pounds per Month	**191.10**
Month with Maximum	**37 or 38**
Maximum Pounds per Year	**1,594**
Maximum Average Pounds per Hour [b]	**0.18**
Year with Maximum	**Months 35 - 46 or 36 - 47**
Tons per Year	**0.80**

Table 5.1A.46R Onsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite PM_{10} Emissions (Exhaust and Fugitive)

Parameter	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Pounds per Month	125.64	125.64	143.28	155.42	158.61	158.61	158.61	158.61	166.48	153.62	153.62	141.43	150.17	150.17	150.17	234.07	234.07	191.69	199.42	170.02	125.62	119.08	119.08	122.56	122.56	103.04	103.04	106.52	100.54	97.06	97.06	97.06
Pounds per Day	5.46	5.46	6.23	6.76	6.90	6.90	6.90	6.90	7.24	6.68	6.68	6.15	6.53	6.53	6.53	10.18	10.18	8.33	8.67	7.39	5.46	5.18	5.18	5.33	5.33	4.48	4.48	4.63	4.37	4.22	4.22	4.22
Yearly Maximums	1,800	1,824	1,849	1,856	1,934	2,010	2,043	2,084	2,095	2,054	2,020	1,985	1,966	1,939	1,891	1,844	1,717	1,583	1,489	1,386	1,313	1,285	1,252	1,218	1,272	1,438	1,624	1,758	1,881	1,997	2,080	2,156
Maximum Pounds per Day	12.56																															
Maximum Pounds per Hour [a]	1.26																															
Maximum Pounds per Month	288.79																															
Month with Maximum	37 or 38																															
Maximum Pounds per Year	2,361																															
Maximum Average Pounds per Hour [b]	0.27																															
Year with Maximum	Months 36 - 47																															
Tons per Year	1.18																															

Onsite Exhaust $PM_{2.5}$ Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)	57.40	57.40	59.07	71.22	74.41	74.41	74.41	74.41	82.28	69.43	69.43	73.19	81.93	81.93	81.93																	
Total (lbs/day)	2.50	2.50	2.57	3.10	3.24	3.24	3.24	3.24	3.58	3.02	3.02	3.18	3.56	3.56	3.56																	
Block 1 Construction																																
Total (lbs/month)																98.65	98.65	83.97	91.69	62.52	45.83	47.26	47.26	50.74	50.74	47.19	47.19	50.67	44.69	41.21	41.21	41.21
Total (lbs/day)																4.29	4.29	3.65	3.99	2.72	1.99	2.05	2.05	2.21	2.21	2.05	2.05	2.20	1.94	1.79	1.79	1.79
Block 2 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite Exhaust $PM_{2.5}$ Emissions (Construction Equipment and Vehicles)																																
Pounds per Month	57.40	57.40	59.07	71.22	74.41	74.41	74.41	74.41	82.28	69.43	69.43	73.19	81.93	81.93	81.93	98.65	98.65	83.97	91.69	62.52	45.83	47.26	47.26	50.74	50.74	47.19	47.19	50.67	44.69	41.21	41.21	41.21
Pounds per Day	2.50	2.50	2.57	3.10	3.24	3.24	3.24	3.24	3.58	3.02	3.02	3.18	3.56	3.56	3.56	4.29	4.29	3.65	3.99	2.72	1.99	2.05	2.05	2.21	2.21	2.05	2.05	2.20	1.94	1.79	1.79	1.79
Yearly Maximums	837	862	886	909	936	961	970	987	976	939	917	895	872	841	806	772	724	670	627	577	555	551	533	516	518	565	615	642	665	682	693	705
Maximum Pounds per Day	4.29																															
Maximum Pounds per Hour [a]	0.43																															
Maximum Pounds per Month	98.65																															
Month with Maximum	16 or 17																															
Maximum Pounds per Year	987																															
Maximum Average Pounds per Hour [b]	0.11																															
Year with Maximum	Months 8 - 19																															
Tons per Year	0.49																															

Onsite Fugitive $PM_{2.5}$ Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)	7.05	7.05	8.64	8.64	8.64	8.64	8.64	8.64	8.64	8.64	8.64	7.05	7.05	7.05	7.05																	
Total (lbs/day)	0.31	0.31	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.31	0.31	0.31	0.31																	
Block 1 Construction																																
Total (lbs/month)																38.45	38.45	23.23	23.23	23.20	7.98	7.18	7.18	7.18	7.18	5.58	5.58	5.58	5.58	5.58	5.58	5.58
Total (lbs/day)																1.67	1.67	1.01	1.01	1.01	0.35	0.31	0.31	0.31	0.31	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Block 2 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite Fugitive $PM_{2.5}$ Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																																
Pounds per Month	7.05	7.05	8.64	8.64	8.64	8.64	8.64	8.64	8.64	8.64	8.64	7.05	7.05	7.05	7.05	38.45	38.45	23.23	23.23	23.20	7.98	7.18	7.18	7.18	7.18	5.58	5.58	5.58	5.58	5.58	5.58	5.58
Pounds per Day	0.31	0.31	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.31	0.31	0.31	0.31	1.67	1.67	1.01	1.01	1.01	0.35	0.31	0.31	0.31	0.31	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Yearly Maximums	99	99	99	97	127	157	172	186	201	200	199	197	197	197	196	194	162	129	111	93	76	73	72	70	88	125	163	186	209	231	238	245
Maximum Pounds per Day	1.91																															
Maximum Pounds per Hour [a]	0.19																															
Maximum Pounds per Month	44.02																															
Month with Maximum	37 or 38																															
Maximum Pounds per Year	259																															
Maximum Average Pounds per Hour [b]	0.03																															
Year with Maximum	Months 35 - 46 or 36 - 47																															
Tons per Year	0.13																															

Table 5.1A.46R Onsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

Parameter	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Pounds per Month	64.45	64.45	67.72	79.86	83.05	83.05	83.05	83.05	90.92	78.07	78.07	80.24	88.98	88.98	88.98	137.10	137.10	107.20	114.92	85.73	53.80	54.44	54.44	57.92	57.92	52.77	52.77	56.25	50.27	46.79	46.79	46.79
Pounds per Day	2.80	2.80	2.94	3.47	3.61	3.61	3.61	3.61	3.95	3.39	3.39	3.49	3.87	3.87	3.87	5.96	5.96	4.66	5.00	3.73	2.34	2.37	2.37	2.52	2.52	2.29	2.29	2.45	2.19	2.03	2.03	2.03
Yearly Maximums	936	961	985	1,006	1,064	1,118	1,142	1,174	1,176	1,139	1,116	1,092	1,070	1,039	1,002	966	885	798	738	670	631	624	605	586	606	690	779	828	874	913	932	949

Maximum Pounds per Day	6.16
Maximum Pounds per Hour [a]	0.616
Maximum Pounds per Month	141.66
Month with Maximum	37 or 38
Maximum Pounds per Year	1,176
Maximum Average Pounds per Hour [b]	0.134
Year with Maximum	Months 9 - 20
Tons per Year	0.59

Onsite CO_2 Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (metric tons/month)	56.43	56.43	65.60	83.55	88.04	88.04	88.04	88.04	98.24	90.49	90.49	90.26	100.87	100.87	100.87																	
Total (metric tons/day)	2.45	2.45	2.85	3.63	3.83	3.83	3.83	3.83	4.27	3.93	3.93	3.92	4.39	4.39	4.39																	
Block 1 Construction																																
Total (metric tons/month)																105.87	105.87	96.74	112.25	80.27	64.41	79.83	79.83	87.59	87.59	79.65	79.65	87.41	77.21	69.45	69.45	69.45
Total (metric tons/day)																4.60	4.60	4.21	4.88	3.49	2.80	3.47	3.47	3.81	3.81	3.46	3.46	3.80	3.36	3.02	3.02	3.02
Block 2 Construction																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Units 1 & 2 Demolition																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Bldgs. 33 & 34 Construction																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Total Onsite CO_2 Emissions (Construction Equipment and Vehicles)																																
Metric Tons per Month	56.43	56.43	65.60	83.55	88.04	88.04	88.04	88.04	98.24	90.49	90.49	90.26	100.87	100.87	100.87	105.87	105.87	96.74	112.25	80.27	64.41	79.83	79.83	87.59	87.59	79.65	79.65	87.41	77.21	69.45	69.45	69.45
Metric Tons per Day	2.45	2.45	2.85	3.63	3.83	3.83	3.83	3.83	4.27	3.93	3.93	3.92	4.39	4.39	4.39	4.60	4.60	4.21	4.88	3.49	2.80	3.47	3.47	3.81	3.81	3.46	3.46	3.80	3.36	3.02	3.02	3.02
Yearly Maximums	984	1,028	1,073	1,108	1,130	1,148	1,157	1,181	1,173	1,139	1,129	1,118	1,115	1,102	1,081	1,060	1,041	1,012	985	942	932	937	911	885	888	948	1,016	1,061	1,097	1,127	1,160	1,194

Maximum Metric Tons per Day	6.42
Maximum Metric Tons per Hour [a]	0.64
Maximum Metric Tons per Month	147.75
Month with Maximum	37 or 38
Maximum Metric Tons per Year	1,427
Maximum Average Metric Tons per Hour [b]	0.16
Year with Maximum	Months 78 - 89

Onsite N_2O Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (metric tons/month)	0.00143	0.00143	0.00166	0.00211	0.00223	0.00223	0.00223	0.00223	0.00249	0.00229	0.00229	0.00229	0.00256	0.00256	0.00256																	
Total (metric tons/day)	0.00006	0.00006	0.00007	0.00009	0.00010	0.00010	0.00010	0.00010	0.00011	0.00010	0.00010	0.00010	0.00011	0.00011	0.00011																	
Block 1 Construction																																
Total (metric tons/month)																0.00268	0.00268	0.00245	0.00284	0.00203	0.00163	0.00202	0.00202	0.00222	0.00222	0.00202	0.00202	0.00222	0.00196	0.00176	0.00176	0.00176
Total (metric tons/day)																0.00012	0.00012	0.00011	0.00012	0.00009	0.00007	0.00009	0.00009	0.00010	0.00010	0.00009	0.00009	0.00010	0.00009	0.00008	0.00008	0.00008
Block 2 Construction																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Units 1 & 2 Demolition																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Bldgs. 33 & 34 Construction																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Total Onsite N_2O Emissions (Construction Equipment and Vehicles)																																
Metric Tons per Month	0.00143	0.00143	0.00166	0.00211	0.00223	0.00223	0.00223	0.00223	0.00249	0.00229	0.00229	0.00229	0.00256	0.00256	0.00256	0.00268	0.00268	0.00245	0.00284	0.00203	0.00163	0.00202	0.00202	0.00222	0.00222	0.00202	0.00202	0.00222	0.00196	0.00176	0.00176	0.00176
Metric Tons per Day	0.00006	0.00006	0.00007	0.00009	0.00010	0.00010	0.00010	0.00010	0.00011	0.00010	0.00010	0.00010	0.00011	0.00011	0.00011	0.00012	0.00012	0.00011	0.00012	0.00009	0.00007	0.00009	0.00009	0.00010	0.00010	0.00009	0.00009	0.00010	0.00009	0.00008	0.00008	0.00008
Yearly Maximums	0.02488	0.02601	0.02714	0.02805	0.02861	0.02907	0.02929	0.02991	0.02971	0.02885	0.02858	0.02831	0.02824	0.02790	0.02736	0.02682	0.02636	0.02563	0.02495	0.02386	0.02359	0.02373	0.02307	0.02242	0.02249	0.02401	0.02573	0.02685	0.02777	0.02851	0.02935	0.03020

Maximum Metric Tons per Day	0.000163
Maximum Metric Tons per Hour [a]	0.0000163
Maximum Metric Tons per Month	0.00374
Month with Maximum	37 or 38
Maximum Metric Tons per Year	0.03619
Maximum Average Metric Tons per Hour [b]	0.00000413
Year with Maximum	Months 78 - 89

Onsite CH_4 Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (metric tons/month)	0.00318	0.00318	0.00369	0.00471	0.00497	0.00497	0.00497	0.00497	0.00555	0.00511	0.00511	0.00510	0.00571	0.00571	0.00571																	
Total (metric tons/day)	0.00014	0.00014	0.00016	0.00020	0.00022	0.00022	0.00022	0.00022	0.00024	0.00022	0.00022	0.00022	0.00025	0.00025	0.00025																	
Block 1 Construction																																
Total (metric tons/month)																0.00598	0.00598	0.00546	0.00634	0.00453	0.00362	0.00451	0.00451	0.00495	0.00495	0.00451	0.00451	0.00495	0.00437	0.00393	0.00393	0.00393
Total (metric tons/day)																0.00026	0.00026	0.00024	0.00028	0.00020	0.00016	0.00020	0.00020	0.00022	0.00022	0.00020	0.00020	0.00022	0.00019	0.00017	0.00017	0.00017
Block 2 Construction																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Units 1 & 2 Demolition																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Bldgs. 33 & 34 Construction																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Total Onsite CH_4 Emissions (Construction Equipment and Vehicles)																																
Metric Tons per Month	0.00318	0.00318	0.00369	0.00471	0.00497	0.00497	0.00497	0.00497	0.00555	0.00511	0.00511	0.00510	0.00571	0.00571	0.00571	0.00598	0.00598	0.00546	0.00634	0.00453	0.00362	0.00451	0.00451	0.00495	0.00495	0.00451	0.00451	0.00495	0.00437	0.00393	0.00393	0.00393
Metric Tons per Day	0.00014	0.00014	0.00016	0.00020	0.00022	0.00022	0.00022	0.00022	0.00024	0.00022	0.00022	0.00022	0.00025	0.00025	0.00025	0.00026	0.00026	0.00024	0.00028	0.00020	0.00016	0.00020	0.00020	0.00022	0.00022	0.00020	0.00020	0.00022	0.00019	0.00017	0.00017	0.00017
Yearly Maximums	0.05549	0.05802	0.06054	0.06256	0.06382	0.06484	0.06533	0.06671	0.06627	0.06434	0.06374	0.06314	0.06299	0.06223	0.06103	0.05983	0.05879	0.05718	0.05564	0.05323	0.05263	0.05293	0.05147	0.05001	0.05016	0.05356	0.05739	0.05989	0.06195	0.06358	0.06547	0.06735

Maximum Metric Tons per Day	0.000363
Maximum Metric Tons per Hour [a]	0.0000363
Maximum Metric Tons per Month	0.00834
Month with Maximum	37 or 38
Maximum Metric Tons per Year	0.08072
Maximum Average Metric Tons per Hour [b]	0.0000092
Year with Maximum	Months 78 - 89

Notes:
[a] The hours per day are per 'Manpower Schedule Huntington Beach 03.13.12.xls': 10 hours/day
[b] The hours per year are assumed to allow operation 24 hours per day, 7 days per week despite the actual construction schedule per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 8,760 hours/year

Table 5.1A.46R Onsite Construction
Exhaust and Fugitive Emissions Summary

Onsite CO Emissions

	CO Emissions by Month																															
Construction Step	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Block 1 Construction																																
Total (lbs/month)	551.12	472.47	472.47	357.55	306.20	306.20	306.20	227.01	227.01	183.29	183.29	372.40	372.40																			
Total (lbs/day)	23.96	20.54	20.54	15.55	13.31	13.31	13.31	9.87	9.87	7.97	7.97	16.19	16.19																			
Block 2 Construction																																
Total (lbs/month)				469.54	1,282.09	1,282.09	957.23	1,032.52	810.23	669.84	669.38	669.38	707.03	669.38	668.47	743.76	706.11	538.80	538.80	538.80	538.80	463.51	349.45	298.70	298.70	298.70	298.70	298.70	222.96	411.07	411.07	
Total (lbs/day)				20.41	55.74	55.74	41.62	44.89	35.23	29.12	29.10	29.10	30.74	29.10	29.06	32.34	30.70	23.43	23.43	23.43	23.43	20.15	15.19	12.99	12.99	12.99	12.99	12.99	9.69	17.87	17.87	
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite CO Emissions (Construction Equipment and Vehicles)																																
Pounds per Month	551.12	472.47	472.47	827.09	1,588.30	1,588.30	1,263.44	1,259.53	1,037.24	853.13	852.68	1,041.78	1,079.43	669.38	668.47	743.76	706.11	538.80	538.80	538.80	538.80	463.51	349.45	298.70	298.70	298.70	298.70	298.70	222.96	411.07	411.07	0.00
Pounds per Day	23.96	20.54	20.54	35.96	69.06	69.06	54.93	54.76	45.10	37.09	37.07	45.29	46.93	29.10	29.06	32.34	30.70	23.43	23.43	23.43	23.43	20.15	15.19	12.99	12.99	12.99	12.99	12.99	9.69	17.87	17.87	0.00
Yearly Maximums	11,808	12,336	12,533	12,729	12,645	11,763	10,714	9,989	9,268	8,770	8,380	7,877	7,134	6,353	5,983	5,613	5,168	4,685	4,557	4,429	3,890	3,352	2,888	3,191	3,544	4,085	4,625	5,295	5,965	6,674	7,195	7,716
Maximum Pounds per Day																																
Maximum Pounds per Hour [a]																																
Maximum Pounds per Month																																
Month with Maximum																																
Maximum Pounds per Year																																
Maximum Average Pounds per Hour [b]																																
Year with Maximum																																
Tons per Year																																

Onsite VOC Emissions

	VOC Emissions by Month																															
Construction Step	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Block 1 Construction																																
Total (lbs/month)	129.03	102.92	102.92	83.87	74.10	74.10	74.10	47.67	47.67	41.04	41.04	74.33	74.33																			
Total (lbs/day)	5.61	4.47	4.47	3.65	3.22	3.22	3.22	2.07	2.07	1.78	1.78	3.23	3.23																			
Block 2 Construction																																
Total (lbs/month)				82.06	203.15	203.15	148.63	172.09	139.18	129.19	128.94	128.94	140.67	128.94	128.42	151.88	140.15	112.34	112.34	112.34	112.34	88.87	72.98	64.65	64.65	64.65	64.65	64.65	40.93	69.74	69.74	
Total (lbs/day)				3.57	8.83	8.83	6.46	7.48	6.05	5.62	5.61	5.61	6.12	5.61	5.58	6.60	6.09	4.88	4.88	4.88	4.88	3.86	3.17	2.81	2.81	2.81	2.81	2.81	1.78	3.03	3.03	
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite VOC Emissions (Construction Equipment and Vehicles)																																
Pounds per Month	129.03	102.92	102.92	165.92	277.25	277.25	222.73	219.76	186.85	170.24	169.98	203.27	215.00	128.94	128.42	151.88	140.15	112.34	112.34	112.34	112.34	88.87	72.98	64.65	64.65	64.65	64.65	64.65	40.93	69.74	69.74	0.00
Pounds per Day	5.61	4.47	4.47	7.21	12.05	12.05	9.68	9.55	8.12	7.40	7.39	8.84	9.35	5.61	5.58	6.60	6.09	4.88	4.88	4.88	4.88	3.86	3.17	2.81	2.81	2.81	2.81	2.81	1.78	3.03	3.03	0.00
Yearly Maximums	2,228	2,314	2,340	2,366	2,352	2,214	2,050	1,939	1,832	1,757	1,676	1,579	1,440	1,290	1,226	1,162	1,075	975	933	890	778	666	577	608	648	707	766	839	911	997	1,055	1,112
Maximum Pounds per Day																																
Maximum Pounds per Hour [a]																																
Maximum Pounds per Month																																
Month with Maximum																																
Maximum Pounds per Year																																
Maximum Average Pounds per Hour [b]																																
Year with Maximum																																
Tons per Year																																

Onsite NOx Emissions

	NOx Emissions by Month																															
Construction Step	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Block 1 Construction																																
Total (lbs/month)	860.23	589.76	589.76	488.50	436.42	436.42	436.42	251.43	251.43	214.32	214.32	403.84	403.84																			
Total (lbs/day)	37.40	25.64	25.64	21.24	18.97	18.97	18.97	10.93	10.93	9.32	9.32	17.56	17.56																			
Block 2 Construction																																
Total (lbs/month)				505.06	1,269.88	1,269.88	925.54	1,109.78	892.78	875.27	874.52	874.52	966.64	783.13	781.76	947.25	864.50	695.29	695.29	695.29	695.29	529.80	438.73	390.56	390.56	348.76	348.76	348.76	200.33	356.05	356.05	
Total (lbs/day)				21.96	55.21	55.21	40.24	48.25	38.82	38.06	38.02	38.02	42.03	34.05	33.99	41.18	37.59	30.23	30.23	30.23	30.23	23.03	19.08	16.98	16.98	15.16	15.16	15.16	8.71	15.48	15.48	
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite NOx Emissions (Construction Equipment and Vehicles)																																
Pounds per Month	860.23	589.76	589.76	993.57	1,706.30	1,706.30	1,361.96	1,361.20	1,144.21	1,089.59	1,088.83	1,278.36	1,370.48	783.13	781.76	947.25	864.50	695.29	695.29	695.29	695.29	529.80	438.73	390.56	390.56	348.76	348.76	348.76	200.33	356.05	356.05	0.00
Pounds per Day	37.40	25.64	25.64	43.20	74.19	74.19	59.22	59.18	49.75	47.37	47.34	55.58	59.59	34.05	33.99	41.18	37.59	30.23	30.23	30.23	30.23	23.03	19.08	16.98	16.98	15.16	15.16	15.16	8.71	15.48	15.48	0.00
Yearly Maximums	13,770	14,280	14,474	14,666	14,619	13,778	12,767	12,100	11,434	10,985	10,425	9,775	8,887	7,907	7,473	7,040	6,442	5,777	5,438	5,099	4,404	3,708	3,179	3,379	3,627	3,981	4,290	4,666	5,041	5,499	5,802	6,104
Maximum Pounds per Day																																
Maximum Pounds per Hour [a]																																
Maximum Pounds per Month																																
Month with Maximum																																
Maximum Pounds per Year																																
Maximum Average Pounds per Hour [b]																																
Year with Maximum																																
Tons per Year																																

Table 5.1A.46R Onsite Construction
Exhaust and Fugitive Emissions Summary

Onsite SOx Emissions

	SOx Emissions by Month																															
Construction Step	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Block 1 Construction																																
Total (lbs/month)	1.52	1.17	1.17	0.98	0.90	0.90	0.90	0.54	0.54	0.47	0.47	0.80	0.80																			
Total (lbs/day)	0.07	0.05	0.05	0.04	0.04	0.04	0.04	0.02	0.02	0.02	0.02	0.03	0.03																			
Block 2 Construction																																
Total (lbs/month)				0.97	2.34	2.34	1.81	2.17	1.77	1.76	1.76	1.76	1.94	1.76	1.76	2.11	1.93	1.52	1.52	1.52	1.52	1.17	0.98	0.90	0.90	0.90	0.90	0.90	0.54	0.87	0.87	
Total (lbs/day)				0.04	0.10	0.10	0.08	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.08	0.07	0.07	0.07	0.07	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.02	0.04	0.04	
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite SOx Emissions (Construction Equipment and Vehicles)																																
Pounds per Month	**1.52**	**1.17**	**1.17**	**1.95**	**3.24**	**3.24**	**2.71**	**2.71**	**2.31**	**2.24**	**2.23**	**2.56**	**2.74**	**1.76**	**1.76**	**2.11**	**1.93**	**1.52**	**1.52**	**1.52**	**1.52**	**1.17**	**0.98**	**0.90**	**0.90**	**0.90**	**0.90**	**0.90**	**0.54**	**0.87**	**0.87**	**0.00**
Pounds per Day	**0.07**	**0.05**	**0.05**	**0.08**	**0.14**	**0.14**	**0.12**	**0.12**	**0.10**	**0.10**	**0.10**	**0.11**	**0.12**	**0.08**	**0.08**	**0.09**	**0.08**	**0.07**	**0.07**	**0.07**	**0.07**	**0.05**	**0.04**	**0.04**	**0.04**	**0.04**	**0.04**	**0.04**	**0.02**	**0.04**	**0.04**	**0.00**
Yearly Maximums	**27**	**28**	**29**	**29**	**30**	**28**	**27**	**25**	**24**	**23**	**22**	**21**	**19**	**18**	**17**	**16**	**15**	**13**	**13**	**12**	**10**	**9**	**8**	**8**	**9**	**10**	**11**	**13**	**14**	**15**	**17**	**18**
Maximum Pounds per Day																																
Maximum Pounds per Hour [a]																																
Maximum Pounds per Month																																
Month with Maximum																																
Maximum Pounds per Year																																
Maximum Average Pounds per Hour [b]																																
Year with Maximum																																
Tons per Year																																

Onsite Exhaust PM_{10} Emissions

	Exhaust PM_{10} Emissions by Month																															
Construction Step	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Block 1 Construction																																
Total (lbs/month)	41.23	30.10	30.10	23.38	19.50	19.50	19.50	13.15	13.15	10.84	10.84	22.59	22.59																			
Total (lbs/day)	1.79	1.31	1.31	1.02	0.85	0.85	0.85	0.57	0.57	0.47	0.47	0.98	0.98																			
Block 2 Construction																																
Total (lbs/month)				29.24	78.19	78.19	54.34	60.65	48.69	41.65	41.61	41.61	44.77	36.25	36.19	41.85	39.02	31.79	31.79	31.79	31.79	26.13	20.40	16.98	16.98	14.81	14.81	14.81	9.72	19.01	19.01	
Total (lbs/day)				1.27	3.40	3.40	2.36	2.64	2.12	1.81	1.81	1.81	1.95	1.58	1.57	1.82	1.70	1.38	1.38	1.38	1.38	1.14	0.89	0.74	0.74	0.64	0.64	0.64	0.42	0.83	0.83	
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite Exhaust PM_{10} Emissions (Construction Equipment and Vehicles)																																
Pounds per Month	**41.23**	**30.10**	**30.10**	**52.61**	**97.69**	**97.69**	**73.84**	**73.80**	**61.84**	**52.49**	**52.45**	**64.20**	**67.36**	**36.25**	**36.19**	**41.85**	**39.02**	**31.79**	**31.79**	**31.79**	**31.79**	**26.13**	**20.40**	**16.98**	**16.98**	**14.81**	**14.81**	**14.81**	**9.72**	**19.01**	**19.01**	**0.00**
Pounds per Day	**1.79**	**1.31**	**1.31**	**2.29**	**4.25**	**4.25**	**3.21**	**3.21**	**2.69**	**2.28**	**2.28**	**2.79**	**2.93**	**1.58**	**1.57**	**1.82**	**1.70**	**1.38**	**1.38**	**1.38**	**1.38**	**1.14**	**0.89**	**0.74**	**0.74**	**0.64**	**0.64**	**0.64**	**0.42**	**0.83**	**0.83**	**0.00**
Yearly Maximums	**728**	**754**	**760**	**766**	**756**	**697**	**631**	**589**	**547**	**517**	**491**	**459**	**411**	**361**	**340**	**318**	**291**	**262**	**249**	**236**	**204**	**173**	**147**	**156**	**168**	**186**	**202**	**220**	**239**	**261**	**273**	**285**
Maximum Pounds per Day																																
Maximum Pounds per Hour [a]																																
Maximum Pounds per Month																																
Month with Maximum																																
Maximum Pounds per Year																																
Maximum Average Pounds per Hour [b]																																
Year with Maximum																																
Tons per Year																																

Onsite Fugitive PM_{10} Emissions

	Fugitive PM_{10} Emissions by Month																															
Construction Step	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Block 1 Construction																																
Total (lbs/month)	55.83	55.83	55.83	55.83	55.83	55.83	55.83	47.85	47.85	47.85	47.85	48.08	48.08																			
Total (lbs/day)	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.08	2.08	2.08	2.08	2.09	2.09																			
Block 2 Construction																																
Total (lbs/month)				67.69	135.27	135.27	107.57	107.57	107.46	79.76	71.78	71.78	71.78	71.78	55.83	55.83	55.83	55.83	55.83	55.83	55.83	55.83	55.83	55.83	55.83	55.83	55.83	55.83	47.85	47.97	47.97	
Total (lbs/day)				2.94	5.88	5.88	4.68	4.68	4.67	3.47	3.12	3.12	3.12	3.12	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.08	2.09	2.09	
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite Fugitive PM_{10} Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																																
Pounds per Month	**55.83**	**55.83**	**55.83**	**123.52**	**191.10**	**191.10**	**163.40**	**155.42**	**155.31**	**127.61**	**119.64**	**119.86**	**119.86**	**71.78**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**55.83**	**47.85**	**47.97**	**47.97**	**0.00**
Pounds per Day	**2.43**	**2.43**	**2.43**	**5.37**	**8.31**	**8.31**	**7.10**	**6.76**	**6.75**	**5.55**	**5.20**	**5.21**	**5.21**	**3.12**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.43**	**2.08**	**2.09**	**2.09**	**0.00**
Yearly Maximums	**1,514**	**1,578**	**1,594**	**1,594**	**1,527**	**1,391**	**1,256**	**1,149**	**1,049**	**950**	**878**	**814**	**750**	**686**	**670**	**670**	**670**	**662**	**654**	**646**	**590**	**535**	**479**	**476**	**474**	**471**	**468**	**466**	**463**	**468**	**474**	**479**
Maximum Pounds per Day																																
Maximum Pounds per Hour [a]																																
Maximum Pounds per Month																																
Month with Maximum																																
Maximum Pounds per Year																																
Maximum Average Pounds per Hour [b]																																
Year with Maximum																																
Tons per Year																																

Table 5.1A.46R Onsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite PM_{10} Emissions (Exhaust and Fugitive)

	Total PM_{10} Emissions by Month																															
Parameter	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Pounds per Month	97.06	85.93	85.93	176.13	288.79	288.79	237.24	229.23	217.15	180.10	172.09	184.06	187.22	108.03	92.02	97.68	94.85	87.62	87.62	87.62	87.62	81.96	76.23	72.81	72.81	70.64	70.64	70.64	57.57	66.98	66.98	0.00
Pounds per Day	4.22	3.74	3.74	7.66	12.56	12.56	10.31	9.97	9.44	7.83	7.48	8.00	8.14	4.70	4.00	4.25	4.12	3.81	3.81	3.81	3.81	3.56	3.31	3.17	3.17	3.07	3.07	3.07	2.50	2.91	2.91	0.00
Yearly Maximums	2,243	2,333	2,355	2,361	2,282	2,088	1,887	1,738	1,596	1,467	1,368	1,273	1,161	1,047	1,009	988	961	924	903	883	795	707	625	632	642	657	670	686	702	729	746	764
Maximum Pounds per Day																																
Maximum Pounds per Hour [a]																																
Maximum Pounds per Month																																
Month with Maximum																																
Maximum Pounds per Year																																
Maximum Average Pounds per Hour [b]																																
Year with Maximum																																
Tons per Year																																

Onsite Exhaust $PM_{2.5}$ Emissions

	Exhaust $PM_{2.5}$ Emissions by Month																															
Construction Step	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Block 1 Construction																																
Total (lbs/month)	41.21	30.08	30.08	23.36	19.48	19.48	19.48	13.14	13.14	10.83	10.83	22.58	22.58																			
Total (lbs/day)	1.79	1.31	1.31	1.02	0.85	0.85	0.85	0.57	0.57	0.47	0.47	0.98	0.98																			
Block 2 Construction																																
Total (lbs/month)				29.22	78.15	78.15	54.31	60.62	48.65	41.61	41.58	41.58	44.74	36.22	36.17	41.83	39.00	31.77	31.77	31.77	31.77	26.11	20.38	16.96	16.96	14.80	14.80	14.80	9.71	19.00	19.00	
Total (lbs/day)				1.27	3.40	3.40	2.36	2.64	2.12	1.81	1.81	1.81	1.95	1.57	1.57	1.82	1.70	1.38	1.38	1.38	1.38	1.14	0.89	0.74	0.74	0.64	0.64	0.64	0.42	0.83	0.83	
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite Exhaust $PM_{2.5}$ Emissions (Construction Equipment and Vehicles)																																
Pounds per Month	41.21	30.08	30.08	52.58	97.63	97.63	73.79	73.76	61.79	52.44	52.41	64.16	67.31	36.22	36.17	41.83	39.00	31.77	31.77	31.77	31.77	26.11	20.38	16.96	16.96	14.80	14.80	14.80	9.71	19.00	19.00	0.00
Pounds per Day	1.79	1.31	1.31	2.29	4.24	4.24	3.21	3.21	2.69	2.28	2.28	2.79	2.93	1.57	1.57	1.82	1.70	1.38	1.38	1.38	1.38	1.14	0.89	0.74	0.74	0.64	0.64	0.64	0.42	0.83	0.83	0.00
Yearly Maximums	728	754	760	766	755	697	631	589	547	517	490	458	411	361	339	318	291	262	249	236	204	173	146	156	168	186	202	220	239	260	273	285
Maximum Pounds per Day																																
Maximum Pounds per Hour [a]																																
Maximum Pounds per Month																																
Month with Maximum																																
Maximum Pounds per Year																																
Maximum Average Pounds per Hour [b]																																
Year with Maximum																																
Tons per Year																																

Onsite Fugitive $PM_{2.5}$ Emissions

	Fugitive $PM_{2.5}$ Emissions by Month																															
Construction Step	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Block 1 Construction																																
Total (lbs/month)	5.58	5.58	5.58	5.58	5.58	5.58	5.58	4.79	4.79	4.79	4.79	4.81	4.81																			
Total (lbs/day)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.21	0.21	0.21	0.21	0.21	0.21																			
Block 2 Construction																																
Total (lbs/month)				19.23	38.44	38.44	23.21	23.21	23.20	7.98	7.18	7.18	7.18	7.18	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	4.79	4.80	4.80	
Total (lbs/day)				0.84	1.67	1.67	1.01	1.01	1.01	0.35	0.31	0.31	0.31	0.31	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.21	0.21	0.21	
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite Fugitive $PM_{2.5}$ Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																																
Pounds per Month	5.58	5.58	5.58	24.81	44.02	44.02	28.80	28.00	27.99	12.76	11.96	11.99	11.99	7.18	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	4.79	4.80	4.80	0.00
Pounds per Day	0.24	0.24	0.24	1.08	1.91	1.91	1.25	1.22	1.22	0.55	0.52	0.52	0.52	0.31	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.21	0.21	0.21	0.00
Yearly Maximums	251	258	259	259	240	201	163	140	117	95	88	81	75	69	67	67	67	66	65	65	59	53	48	48	49	49	50	50	50	52	53	54
Maximum Pounds per Day																																
Maximum Pounds per Hour [a]																																
Maximum Pounds per Month																																
Month with Maximum																																
Maximum Pounds per Year																																
Maximum Average Pounds per Hour [b]																																
Year with Maximum																																
Tons per Year																																

Table 5.1A.46R Onsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

	Total $PM_{2.5}$ Emissions by Month																													
Parameter	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**
Pounds per Month	46.79	35.67	35.67	77.39	141.66	141.66	102.59	101.76	89.78	65.20	64.37	76.15	79.30	43.40	41.75	47.41	44.58	37.36	37.36	37.36	37.36	31.70	25.96	22.54	22.54	20.38	20.38	20.38	14.49	23.80	23.80	0.00
Pounds per Day	2.03	1.55	1.55	3.36	6.16	6.16	4.46	4.42	3.90	2.83	2.80	3.31	3.45	1.89	1.82	2.06	1.94	1.62	1.62	1.62	1.62	1.38	1.13	0.98	0.98	0.89	0.89	0.89	0.63	1.03	1.03	0.00
Yearly Maximums	979	1,011	1,019	1,025	995	898	794	728	664	612	578	540	486	429	406	385	358	328	314	301	263	226	194	204	217	235	251	270	289	312	325	339
Maximum Pounds per Day																																
Maximum Pounds per Hour [a]																																
Maximum Pounds per Month																																
Month with Maximum																																
Maximum Pounds per Year																																
Maximum Average Pounds per Hour [b]																																
Year with Maximum																																
Tons per Year																																

Onsite CO_2 Emissions

	CO_2 Emissions by Month																													
Construction Step	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Block 1 Construction																																
Total (metric tons/month)	69.45	53.95	53.95	45.42	41.94	41.94	41.94	26.34	26.34	23.30	23.30	37.71	37.71																			
Total (metric tons/day)	3.02	2.35	2.35	1.97	1.82	1.82	1.82	1.15	1.15	1.01	1.01	1.64	1.64																			
Block 2 Construction																																
Total (metric tons/month)				45.05	105.81	105.81	82.28	97.79	80.22	79.87	79.78	79.78	87.54	79.78	79.60	95.11	87.36	69.40	69.40	69.40	69.40	53.90	45.38	41.91	41.91	41.91	41.91	41.91	26.31	40.72	40.72	
Total (metric tons/day)				1.96	4.60	4.60	3.58	4.25	3.49	3.47	3.47	3.47	3.81	3.47	3.46	4.14	3.80	3.02	3.02	3.02	3.02	2.34	1.97	1.82	1.82	1.82	1.82	1.82	1.14	1.77	1.77	
Units 1 & 2 Demolition																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Bldgs. 33 & 34 Construction																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Total Onsite CO_2 Emissions (Construction Equipment and Vehicles)																																
Metric Tons per Month	69.45	53.95	53.95	90.46	147.75	147.75	124.22	124.13	106.56	103.17	103.08	117.50	125.25	79.78	79.60	95.11	87.36	69.40	69.40	69.40	69.40	53.90	45.38	41.91	41.91	41.91	41.91	41.91	26.31	40.72	40.72	0.00
Metric Tons per Day	3.02	2.35	2.35	3.93	6.42	6.42	5.40	5.40	4.63	4.49	4.48	5.11	5.45	3.47	3.46	4.14	3.80	3.02	3.02	3.02	3.02	2.34	1.97	1.82	1.82	1.82	1.82	1.82	1.14	1.77	1.77	0.00
Yearly Maximums	1,242	1,298	1,324	1,349	1,354	1,294	1,215	1,160	1,106	1,068	1,019	962	886	803	765	727	674	613	584	555	486	417	363	392	424	472	519	576	634	699	750	801
Maximum Metric Tons per Day																																
Maximum Metric Tons per Hour [a]																																
Maximum Metric Tons per Month																																
Month with Maximum																																
Maximum Metric Tons per Year																																
Maximum Average Metric Tons per Hour [b]																																
Year with Maximum																																

Onsite N_2O Emissions

	N_2O Emissions by Month																													
Construction Step	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Block 1 Construction																																
Total (metric tons/month)	0.00176	0.00137	0.00137	0.00115	0.00106	0.00106	0.00106	0.00066	0.00066	0.00059	0.00059	0.00095	0.00095																			
Total (metric tons/day)	0.00008	0.00006	0.00006	0.00005	0.00005	0.00005	0.00005	0.00003	0.00003	0.00003	0.00003	0.00004	0.00004																			
Block 2 Construction																																
Total (metric tons/month)				0.00114	0.00268	0.00268	0.00208	0.00247	0.00203	0.00202	0.00202	0.00202	0.00222	0.00202	0.00202	0.00241	0.00222	0.00176	0.00176	0.00176	0.00176	0.00136	0.00115	0.00106	0.00106	0.00106	0.00106	0.00106	0.00066	0.00103	0.00103	
Total (metric tons/day)				0.00005	0.00012	0.00012	0.00009	0.00011	0.00009	0.00009	0.00009	0.00009	0.00010	0.00009	0.00009	0.00010	0.00010	0.00008	0.00008	0.00008	0.00008	0.00006	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00003	0.00004	0.00004	
Units 1 & 2 Demolition																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Bldgs. 33 & 34 Construction																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Total Onsite N_2O Emissions (Construction Equipment and Vehicles)																																
Metric Tons per Month	0.00176	0.00137	0.00137	0.00229	0.00374	0.00374	0.00314	0.00314	0.00269	0.00261	0.00261	0.00297	0.00317	0.00202	0.00202	0.00241	0.00222	0.00176	0.00176	0.00176	0.00176	0.00136	0.00115	0.00106	0.00106	0.00106	0.00106	0.00106	0.00066	0.00103	0.00103	0.00000
Metric Tons per Day	0.00008	0.00006	0.00006	0.00010	0.00016	0.00016	0.00014	0.00014	0.00012	0.00011	0.00011	0.00013	0.00014	0.00009	0.00009	0.00010	0.00010	0.00008	0.00008	0.00008	0.00008	0.00006	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00003	0.00004	0.00004	0.00000
Yearly Maximums	0.03141	0.03282	0.03347	0.03413	0.03425	0.03273	0.03075	0.02937	0.02799	0.02705	0.02581	0.02435	0.02244	0.02033	0.01937	0.01841	0.01705	0.01550	0.01477	0.01405	0.01229	0.01053	0.00916	0.00991	0.01074	0.01194	0.01314	0.01461	0.01607	0.01773	0.01903	0.02032
Maximum Metric Tons per Day																																
Maximum Metric Tons per Hour [a]																																
Maximum Metric Tons per Month																																
Month with Maximum																																
Maximum Metric Tons per Year																																
Maximum Average Metric Tons per Hour [b]																																
Year with Maximum																																

Onsite CH_4 Emissions

	CH_4 Emissions by Month																													
Construction Step	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Block 1 Construction																																
Total (metric tons/month)	0.00393	0.00304	0.00304	0.00256	0.00236	0.00236	0.00236	0.00148	0.00148	0.00131	0.00131	0.00213	0.00213																			
Total (metric tons/day)	0.00017	0.00013	0.00013	0.00011	0.00010	0.00010	0.00010	0.00006	0.00006	0.00006	0.00006	0.00009	0.00009																			
Block 2 Construction																																
Total (metric tons/month)				0.00254	0.00598	0.00598	0.00464	0.00552	0.00452	0.00450	0.00450	0.00450	0.00494	0.00450	0.00450	0.00538	0.00494	0.00392	0.00392	0.00392	0.00392	0.00304	0.00256	0.00236	0.00236	0.00236	0.00236	0.00236	0.00148	0.00230	0.00230	
Total (metric tons/day)				0.00011	0.00026	0.00026	0.00020	0.00024	0.00020	0.00020	0.00020	0.00020	0.00021	0.00020	0.00020	0.00023	0.00021	0.00017	0.00017	0.00017	0.00017	0.00013	0.00011	0.00010	0.00010	0.00010	0.00010	0.00010	0.00006	0.00010	0.00010	
Units 1 & 2 Demolition																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Bldgs. 33 & 34 Construction																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Total Onsite CH_4 Emissions (Construction Equipment and Vehicles)																																
Metric Tons per Month	0.00393	0.00304	0.00304	0.00510	0.00834	0.00834	0.00700	0.00700	0.00600	0.00581	0.00581	0.00663	0.00707	0.00450	0.00450	0.00538	0.00494	0.00392	0.00392	0.00392	0.00392	0.00304	0.00256	0.00236	0.00236	0.00236	0.00236	0.00236	0.00148	0.00230	0.00230	0.00000
Metric Tons per Day	0.00017	0.00013	0.00013	0.00022	0.00036	0.00036	0.00030	0.00030	0.00026	0.00025	0.00025	0.00029	0.00031	0.00020	0.00020	0.00023	0.00021	0.00017	0.00017	0.00017	0.00017	0.00013	0.00011	0.00010	0.00010	0.00010	0.00010	0.00010	0.00006	0.00010	0.00010	0.00000
Yearly Maximums	0.07006	0.07320	0.07466	0.07612	0.07640	0.07300	0.06859	0.06551	0.06243	0.06035	0.05758	0.05433	0.05006	0.04535	0.04321	0.04106	0.03804	0.03458	0.03295	0.03133	0.02741	0.02348	0.02044	0.02210	0.02395	0.02663	0.02932	0.03258	0.03585	0.03955	0.04244	0.04533
Maximum Metric Tons per Day																																
Maximum Metric Tons per Hour [a]																																
Maximum Metric Tons per Month																																
Month with Maximum																																
Maximum Metric Tons per Year																																
Maximum Average Metric Tons per Hour [b]																																
Year with Maximum																																

Notes:
[a] The hours per day are per 'Manpower Schedule Huntington Be
[b] The hours per year are assumed to allow operation 24 hours per

Table 5.1A.46R Onsite Construction
Exhaust and Fugitive Emissions Summary

Onsite CO Emissions

Construction Step	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 1 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 2 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Units 1 & 2 Demolition																										
Total (lbs/month)			652.25	652.25	839.00	839.00	968.63	968.63	932.20	932.20	932.20	932.20	932.20	932.20	932.20	932.20	932.20	932.20	1,018.89	1,018.89	1,018.89	1,018.89	1,018.89	1,018.89	1,018.89	1,018.89
Total (lbs/day)			28.36	28.36	36.48	36.48	42.11	42.11	40.53	40.53	40.53	40.53	40.53	40.53	40.53	40.53	40.53	40.53	44.30	44.30	44.30	44.30	44.30	44.30	44.30	44.30
Bldgs. 33 & 34 Construction																										
Total (lbs/month)													106.76	421.56	421.56	457.49	401.39	401.39	86.95	86.95	86.95	86.95	86.95	86.95	86.95	86.95
Total (lbs/day)													4.64	18.33	18.33	19.89	17.45	17.45	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78
Total Onsite CO Emissions (Construction Equipment and Vehicles)																										
Pounds per Month	**0.00**	**0.00**	**652.25**	**652.25**	**839.00**	**839.00**	**968.63**	**968.63**	**932.20**	**932.20**	**932.20**	**932.20**	**1,038.95**	**1,353.76**	**1,353.76**	**1,389.69**	**1,333.59**	**1,333.59**	**1,105.84**	**1,105.84**	**1,105.84**	**1,105.84**	**1,105.84**	**1,105.84**	**1,105.84**	**1,105.84**
Pounds per Day	**0.00**	**0.00**	**28.36**	**28.36**	**36.48**	**36.48**	**42.11**	**42.11**	**40.53**	**40.53**	**40.53**	**40.53**	**45.17**	**58.86**	**58.86**	**60.42**	**57.98**	**57.98**	**48.08**	**48.08**	**48.08**	**48.08**	**48.08**	**48.08**	**48.08**	**48.08**
Yearly Maximums	**8,649**	**9,688**	**11,041**	**11,743**	**12,480**	**12,975**	**13,469**	**13,607**	**13,744**	**13,917**	**14,091**	**14,265**	**14,438**	**14,505**	**14,257**											
Maximum Pounds per Day																										
Maximum Pounds per Hour [a]																										
Maximum Pounds per Month																										
Month with Maximum																										
Maximum Pounds per Year																										
Maximum Average Pounds per Hour [b]																										
Year with Maximum																										
Tons per Year																										

Onsite VOC Emissions

Construction Step	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 1 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 2 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Units 1 & 2 Demolition																										
Total (lbs/month)			104.30	104.30	123.73	123.73	137.43	137.43	126.93	126.93	126.93	126.93	126.93	126.93	126.93	126.93	126.93	126.93	144.53	144.53	144.53	144.53	144.53	144.53	144.53	144.53
Total (lbs/day)			4.53	4.53	5.38	5.38	5.98	5.98	5.52	5.52	5.52	5.52	5.52	5.52	5.52	5.52	5.52	5.52	6.28	6.28	6.28	6.28	6.28	6.28	6.28	6.28
Bldgs. 33 & 34 Construction																										
Total (lbs/month)													13.69	55.46	55.46	65.39	58.48	58.48	16.91	16.91	16.91	16.91	16.91	16.91	16.91	16.91
Total (lbs/day)													0.60	2.41	2.41	2.84	2.54	2.54	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Total Onsite VOC Emissions (Construction Equipment and Vehicles)																										
Pounds per Month	**0.00**	**0.00**	**104.30**	**104.30**	**123.73**	**123.73**	**137.43**	**137.43**	**126.93**	**126.93**	**126.93**	**126.93**	**140.62**	**182.39**	**182.39**	**192.32**	**185.41**	**185.41**	**161.43**	**161.43**	**161.43**	**161.43**	**161.43**	**161.43**	**161.43**	**161.43**
Pounds per Day	**0.00**	**0.00**	**4.53**	**4.53**	**5.38**	**5.38**	**5.98**	**5.98**	**5.52**	**5.52**	**5.52**	**5.52**	**6.11**	**7.93**	**7.93**	**8.36**	**8.06**	**8.06**	**7.02**	**7.02**	**7.02**	**7.02**	**7.02**	**7.02**	**7.02**	**7.02**
Yearly Maximums	**1,239**	**1,379**	**1,562**	**1,640**	**1,728**	**1,789**	**1,851**	**1,875**	**1,899**	**1,934**	**1,968**	**2,003**	**2,037**	**2,058**	**2,037**											
Maximum Pounds per Day																										
Maximum Pounds per Hour [a]																										
Maximum Pounds per Month																										
Month with Maximum																										
Maximum Pounds per Year																										
Maximum Average Pounds per Hour [b]																										
Year with Maximum																										
Tons per Year																										

Onsite NOx Emissions

Construction Step	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 1 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 2 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Units 1 & 2 Demolition																										
Total (lbs/month)			638.75	638.75	744.56	658.30	724.25	724.25	658.49	658.49	658.49	658.49	658.49	658.49	658.49	658.49	658.49	582.51	679.22	679.22	679.22	679.22	679.22	679.22	679.22	679.22
Total (lbs/day)			27.77	27.77	32.37	28.62	31.49	31.49	28.63	28.63	28.63	28.63	28.63	28.63	28.63	28.63	28.63	25.33	29.53	29.53	29.53	29.53	29.53	29.53	29.53	29.53
Bldgs. 33 & 34 Construction																										
Total (lbs/month)													89.32	343.70	343.70	409.47	362.08	330.56	97.79	97.79	97.79	97.79	97.79	97.79	97.79	97.79
Total (lbs/day)													3.88	14.94	14.94	17.80	15.74	14.37	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
Total Onsite NOx Emissions (Construction Equipment and Vehicles)																										
Pounds per Month	**0.00**	**0.00**	**638.75**	**638.75**	**744.56**	**658.30**	**724.25**	**724.25**	**658.49**	**658.49**	**658.49**	**658.49**	**747.81**	**1,002.19**	**1,002.19**	**1,067.96**	**1,020.56**	**913.07**	**777.01**	**777.01**	**777.01**	**777.01**	**777.01**	**777.01**	**777.01**	**777.01**
Pounds per Day	**0.00**	**0.00**	**27.77**	**27.77**	**32.37**	**28.62**	**31.49**	**31.49**	**28.63**	**28.63**	**28.63**	**28.63**	**32.51**	**43.57**	**43.57**	**46.43**	**44.37**	**39.70**	**33.78**	**33.78**	**33.78**	**33.78**	**33.78**	**33.78**	**33.78**	**33.78**
Yearly Maximums	**6,763**	**7,511**	**8,513**	**8,876**	**9,305**	**9,581**	**9,836**	**9,889**	**9,942**	**10,060**	**10,179**	**10,297**	**10,416**	**10,445**	**10,220**											
Maximum Pounds per Day																										
Maximum Pounds per Hour [a]																										
Maximum Pounds per Month																										
Month with Maximum																										
Maximum Pounds per Year																										
Maximum Average Pounds per Hour [b]																										
Year with Maximum																										
Tons per Year																										

Table 5.1A.46R Onsite Construction
Exhaust and Fugitive Emissions Summary

Onsite SOx Emissions

Construction Step	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 1 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 2 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Units 1 & 2 Demolition																										
Total (lbs/month)			1.64	1.64	1.97	1.97	2.20	2.20	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
Total (lbs/day)			0.07	0.07	0.09	0.09	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Bldgs. 33 & 34 Construction																										
Total (lbs/month)													0.17	0.70	0.70	0.88	0.78	0.78	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Total (lbs/day)													0.01	0.03	0.03	0.04	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total Onsite SOx Emissions (Construction Equipment and Vehicles)																										
Pounds per Month	**0.00**	**0.00**	**1.64**	**1.64**	**1.97**	**1.97**	**2.20**	**2.20**	**2.03**	**2.03**	**2.03**	**2.03**	**2.20**	**2.73**	**2.73**	**2.90**	**2.81**	**2.81**	**2.54**	**2.54**	**2.54**	**2.54**	**2.54**	**2.54**	**2.54**	**2.54**
Pounds per Day	**0.00**	**0.00**	**0.07**	**0.07**	**0.09**	**0.09**	**0.10**	**0.10**	**0.09**	**0.09**	**0.09**	**0.09**	**0.10**	**0.12**	**0.12**	**0.13**	**0.12**	**0.12**	**0.11**	**0.11**	**0.11**	**0.11**	**0.11**	**0.11**	**0.11**	**0.11**
Yearly Maximums	**20**	**22**	**25**	**26**	**27**	**28**	**29**	**29**	**29**	**30**	**30**	**31**	**31**	**32**	**32**											
Maximum Pounds per Day																										
Maximum Pounds per Hour [a]																										
Maximum Pounds per Month																										
Month with Maximum																										
Maximum Pounds per Year																										
Maximum Average Pounds per Hour [b]																										
Year with Maximum																										
Tons per Year																										

Onsite Exhaust PM_{10} Emissions

Construction Step	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 1 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 2 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Units 1 & 2 Demolition																										
Total (lbs/month)			29.66	29.66	34.92	30.19	33.47	33.47	31.20	31.20	31.20	31.20	31.20	31.20	31.20	31.20	31.20	26.80	31.04	31.04	31.04	31.04	31.04	31.04	31.04	31.04
Total (lbs/day)			1.29	1.29	1.52	1.31	1.46	1.46	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.17	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
Bldgs. 33 & 34 Construction																										
Total (lbs/month)													5.54	21.24	21.24	23.51	20.60	18.15	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
Total (lbs/day)													0.24	0.92	0.92	1.02	0.90	0.79	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Total Onsite Exhaust PM_{10} Emissions (Construction Equipment and Vehicles)																										
Pounds per Month	**0.00**	**0.00**	**29.66**	**29.66**	**34.92**	**30.19**	**33.47**	**33.47**	**31.20**	**31.20**	**31.20**	**31.20**	**36.73**	**52.44**	**52.44**	**54.71**	**51.80**	**44.94**	**35.34**	**35.34**	**35.34**	**35.34**	**35.34**	**35.34**	**35.34**	**35.34**
Pounds per Day	**0.00**	**0.00**	**1.29**	**1.29**	**1.52**	**1.31**	**1.46**	**1.46**	**1.36**	**1.36**	**1.36**	**1.36**	**1.60**	**2.28**	**2.28**	**2.38**	**2.25**	**1.95**	**1.54**	**1.54**	**1.54**	**1.54**	**1.54**	**1.54**	**1.54**	**1.54**
Yearly Maximums	**316**	**353**	**405**	**428**	**453**	**470**	**485**	**487**	**489**	**493**	**497**	**501**	**505**	**504**	**487**											
Maximum Pounds per Day																										
Maximum Pounds per Hour [a]																										
Maximum Pounds per Month																										
Month with Maximum																										
Maximum Pounds per Year																										
Maximum Average Pounds per Hour [b]																										
Year with Maximum																										
Tons per Year																										

Onsite Fugitive PM_{10} Emissions

Construction Step	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 1 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 2 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Units 1 & 2 Demolition																										
Total (lbs/month)			53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20
Total (lbs/day)			2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31
Bldgs. 33 & 34 Construction																										
Total (lbs/month)													31.90	67.66	67.66	67.66	59.69	59.69	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90
Total (lbs/day)													1.39	2.94	2.94	2.94	2.60	2.60	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
Total Onsite Fugitive PM_{10} Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																										
Pounds per Month	**0.00**	**0.00**	**53.20**	**53.20**	**53.20**	**53.20**	**53.20**	**53.20**	**53.20**	**53.20**	**53.20**	**53.20**	**85.10**	**120.86**	**120.86**	**120.86**	**112.89**	**112.89**	**85.10**	**85.10**	**85.10**	**85.10**	**85.10**	**85.10**	**85.10**	**85.10**
Pounds per Day	**0.00**	**0.00**	**2.31**	**2.31**	**2.31**	**2.31**	**2.31**	**2.31**	**2.31**	**2.31**	**2.31**	**2.31**	**3.70**	**5.25**	**5.25**	**5.25**	**4.91**	**4.91**	**3.70**	**3.70**	**3.70**	**3.70**	**3.70**	**3.70**	**3.70**	**3.70**
Yearly Maximums	**532**	**617**	**738**	**806**	**873**	**933**	**993**	**1,025**	**1,056**	**1,088**	**1,120**	**1,152**	**1,184**	**1,184**	**1,148**											
Maximum Pounds per Day																										
Maximum Pounds per Hour [a]																										
Maximum Pounds per Month																										
Month with Maximum																										
Maximum Pounds per Year																										
Maximum Average Pounds per Hour [b]																										
Year with Maximum																										
Tons per Year																										

Table 5.1A.46R Onsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite PM_{10} Emissions (Exhaust and Fugitive)

Parameter	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Pounds per Month	0.00	0.00	82.86	82.86	88.12	83.39	86.67	86.67	84.40	84.40	84.40	84.40	121.84	173.30	173.30	175.57	164.69	157.83	120.44	120.44	120.44	120.44	120.44	120.44	120.44	120.44
Pounds per Day	0.00	0.00	3.60	3.60	3.83	3.63	3.77	3.77	3.67	3.67	3.67	3.67	5.30	7.53	7.53	7.63	7.16	6.86	5.24	5.24	5.24	5.24	5.24	5.24	5.24	5.24
Yearly Maximums	848	970	1,143	1,234	1,326	1,403	1,477	1,511	1,545	1,581	1,617	1,653	1,689	1,688	1,635											
Maximum Pounds per Day																										
Maximum Pounds per Hour [a]																										
Maximum Pounds per Month																										
Month with Maximum																										
Maximum Pounds per Year																										
Maximum Average Pounds per Hour [b]																										
Year with Maximum																										
Tons per Year																										

Onsite Exhaust $PM_{2.5}$ Emissions

Construction Step	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 1 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 2 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Units 1 & 2 Demolition																										
Total (lbs/month)			29.65	29.65	34.91	30.17	33.45	33.45	31.18	31.18	31.18	31.18	31.18	31.18	31.18	31.18	31.18	26.78	31.03	31.03	31.03	31.03	31.03	31.03	31.03	31.03
Total (lbs/day)			1.29	1.29	1.52	1.31	1.45	1.45	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.16	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
Bldgs. 33 & 34 Construction																										
Total (lbs/month)													5.53	21.23	21.23	23.50	20.60	18.14	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29
Total (lbs/day)													0.24	0.92	0.92	1.02	0.90	0.79	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Total Onsite Exhaust $PM_{2.5}$ Emissions (Construction Equipment and Vehicles)																										
Pounds per Month	**0.00**	**0.00**	**29.65**	**29.65**	**34.91**	**30.17**	**33.45**	**33.45**	**31.18**	**31.18**	**31.18**	**31.18**	**36.71**	**52.41**	**52.41**	**54.68**	**51.78**	**44.92**	**35.31**	**35.31**	**35.31**	**35.31**	**35.31**	**35.31**	**35.31**	**35.31**
Pounds per Day	**0.00**	**0.00**	**1.29**	**1.29**	**1.52**	**1.31**	**1.45**	**1.45**	**1.36**	**1.36**	**1.36**	**1.36**	**1.60**	**2.28**	**2.28**	**2.38**	**2.25**	**1.95**	**1.54**	**1.54**	**1.54**	**1.54**	**1.54**	**1.54**	**1.54**	**1.54**
Yearly Maximums	**316**	**353**	**405**	**428**	**453**	**470**	**485**	**486**	**488**	**492**	**497**	**501**	**505**	**503**	**486**											
Maximum Pounds per Day																										
Maximum Pounds per Hour [a]																										
Maximum Pounds per Month																										
Month with Maximum																										
Maximum Pounds per Year																										
Maximum Average Pounds per Hour [b]																										
Year with Maximum																										
Tons per Year																										

Onsite Fugitive $PM_{2.5}$ Emissions

Construction Step	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 1 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 2 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Units 1 & 2 Demolition																										
Total (lbs/month)			6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01
Total (lbs/day)			0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Bldgs. 33 & 34 Construction																										
Total (lbs/month)													3.19	19.22	19.22	19.22	18.43	18.43	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19
Total (lbs/day)													0.14	0.84	0.84	0.84	0.80	0.80	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Total Onsite Fugitive $PM_{2.5}$ Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																										
Pounds per Month	**0.00**	**0.00**	**6.01**	**6.01**	**6.01**	**6.01**	**6.01**	**6.01**	**6.01**	**6.01**	**6.01**	**6.01**	**9.20**	**25.23**	**25.23**	**25.23**	**24.43**	**24.43**	**9.20**	**9.20**	**9.20**	**9.20**	**9.20**	**9.20**	**9.20**	**9.20**
Pounds per Day	**0.00**	**0.00**	**0.26**	**0.26**	**0.26**	**0.26**	**0.26**	**0.26**	**0.26**	**0.26**	**0.26**	**0.26**	**0.40**	**1.10**	**1.10**	**1.10**	**1.06**	**1.06**	**0.40**	**0.40**	**0.40**	**0.40**	**0.40**	**0.40**	**0.40**	**0.40**
Yearly Maximums	**60**	**69**	**94**	**114**	**133**	**151**	**170**	**173**	**176**	**179**	**183**	**186**	**189**	**189**	**173**											
Maximum Pounds per Day																										
Maximum Pounds per Hour [a]																										
Maximum Pounds per Month																										
Month with Maximum																										
Maximum Pounds per Year																										
Maximum Average Pounds per Hour [b]																										
Year with Maximum																										
Tons per Year																										

Table 5.1A.46R Onsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

Parameter	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Pounds per Month	0.00	0.00	35.65	35.65	40.91	36.18	39.46	39.46	37.19	37.19	37.19	37.19	45.90	77.64	77.64	79.91	76.21	69.35	44.51	44.51	44.51	44.51	44.51	44.51	44.51	44.51
Pounds per Day	0.00	0.00	1.55	1.55	1.78	1.57	1.72	1.72	1.62	1.62	1.62	1.62	2.00	3.38	3.38	3.47	3.31	3.02	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94
Yearly Maximums	376	422	500	542	586	621	654	659	664	672	679	686	694	692	659											
Maximum Pounds per Day																										
Maximum Pounds per Hour [a]																										
Maximum Pounds per Month																										
Month with Maximum																										
Maximum Pounds per Year																										
Maximum Average Pounds per Hour [b]																										
Year with Maximum																										
Tons per Year																										

Onsite CO_2 Emissions

Construction Step	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																										
Total (metric tons/month)																										
Total (metric tons/day)																										
Block 1 Construction																										
Total (metric tons/month)																										
Total (metric tons/day)																										
Block 2 Construction																										
Total (metric tons/month)																										
Total (metric tons/day)																										
Units 1 & 2 Demolition																										
Total (metric tons/month)			74.46	74.46	89.15	89.15	99.35	99.35	91.59	91.59	91.59	91.59	91.59	91.59	91.59	91.59	91.59	91.59	102.82	102.82	102.82	102.82	102.82	102.82	102.82	102.82
Total (metric tons/day)			3.24	3.24	3.88	3.88	4.32	4.32	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	4.47	4.47	4.47	4.47	4.47	4.47	4.47	4.47
Bldgs. 33 & 34 Construction																										
Total (metric tons/month)													7.73	30.91	30.91	38.64	34.53	34.53	11.45	11.45	11.45	11.45	11.45	11.45	11.45	11.45
Total (metric tons/day)													0.34	1.34	1.34	1.68	1.50	1.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Total Onsite CO_2 Emissions (Construction Equipment and Vehicles)																										
Metric Tons per Month	0.00	0.00	74.46	74.46	89.15	89.15	99.35	99.35	91.59	91.59	91.59	91.59	99.32	122.50	122.50	130.24	126.13	126.13	114.27	114.27	114.27	114.27	114.27	114.27	114.27	114.27
Metric Tons per Day	0.00	0.00	3.24	3.24	3.88	3.88	4.32	4.32	3.98	3.98	3.98	3.98	4.32	5.33	5.33	5.66	5.48	5.48	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97
Yearly Maximums	892	992	1,114	1,162	1,218	1,255	1,292	1,307	1,322	1,344	1,367	1,390	1,412	1,427	1,419											
Maximum Metric Tons per Day																										
Maximum Metric Tons per Hour [a]																										
Maximum Metric Tons per Month																										
Month with Maximum																										
Maximum Metric Tons per Year																										
Maximum Average Metric Tons per Hour [b]																										
Year with Maximum																										

Onsite N_2O Emissions

Construction Step	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																										
Total (metric tons/month)																										
Total (metric tons/day)																										
Block 1 Construction																										
Total (metric tons/month)																										
Total (metric tons/day)																										
Block 2 Construction																										
Total (metric tons/month)																										
Total (metric tons/day)																										
Units 1 & 2 Demolition																										
Total (metric tons/month)			0.00189	0.00189	0.00226	0.00226	0.00252	0.00252	0.00232	0.00232	0.00232	0.00232	0.00232	0.00232	0.00232	0.00232	0.00232	0.00232	0.00261	0.00261	0.00261	0.00261	0.00261	0.00261	0.00261	0.00261
Total (metric tons/day)			0.00008	0.00008	0.00010	0.00010	0.00011	0.00011	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00011	0.00011	0.00011	0.00011	0.00011	0.00011	0.00011	0.00011
Bldgs. 33 & 34 Construction																										
Total (metric tons/month)													0.00019	0.00078	0.00078	0.00098	0.00087	0.00087	0.00029	0.00029	0.00029	0.00029	0.00029	0.00029	0.00029	0.00029
Total (metric tons/day)													0.00001	0.00003	0.00003	0.00004	0.00004	0.00004	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
Total Onsite N_2O Emissions (Construction Equipment and Vehicles)																										
Metric Tons per Month	0.00000	0.00000	0.00189	0.00189	0.00226	0.00226	0.00252	0.00252	0.00232	0.00232	0.00232	0.00232	0.00252	0.00310	0.00310	0.00330	0.00320	0.00320	0.00290	0.00290	0.00290	0.00290	0.00290	0.00290	0.00290	0.00290
Metric Tons per Day	0.00000	0.00000	0.00008	0.00008	0.00010	0.00010	0.00011	0.00011	0.00010	0.00010	0.00010	0.00010	0.00011	0.00013	0.00013	0.00014	0.00014	0.00014	0.00013	0.00013	0.00013	0.00013	0.00013	0.00013	0.00013	0.00013
Yearly Maximums	0.02265	0.02516	0.02827	0.02948	0.03090	0.03183	0.03277	0.03314	0.03352	0.03409	0.03466	0.03523	0.03581	0.03619	0.03598											
Maximum Metric Tons per Day																										
Maximum Metric Tons per Hour [a]																										
Maximum Metric Tons per Month																										
Month with Maximum																										
Maximum Metric Tons per Year																										
Maximum Average Metric Tons per Hour [b]																										
Year with Maximum																										

Onsite CH_4 Emissions

Construction Step	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																										
Total (metric tons/month)																										
Total (metric tons/day)																										
Block 1 Construction																										
Total (metric tons/month)																										
Total (metric tons/day)																										
Block 2 Construction																										
Total (metric tons/month)																										
Total (metric tons/day)																										
Units 1 & 2 Demolition																										
Total (metric tons/month)			0.00421	0.00421	0.00505	0.00505	0.00563	0.00563	0.00519	0.00519	0.00519	0.00519	0.00519	0.00519	0.00519	0.00519	0.00519	0.00519	0.00582	0.00582	0.00582	0.00582	0.00582	0.00582	0.00582	0.00582
Total (metric tons/day)			0.00018	0.00018	0.00022	0.00022	0.00024	0.00024	0.00023	0.00023	0.00023	0.00023	0.00023	0.00023	0.00023	0.00023	0.00023	0.00023	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025
Bldgs. 33 & 34 Construction																										
Total (metric tons/month)													0.00043	0.00174	0.00174	0.00218	0.00195	0.00195	0.00064	0.00064	0.00064	0.00064	0.00064	0.00064	0.00064	0.00064
Total (metric tons/day)													0.00002	0.00008	0.00008	0.00009	0.00008	0.00008	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003
Total Onsite CH_4 Emissions (Construction Equipment and Vehicles)																										
Metric Tons per Month	0.00000	0.00000	0.00421	0.00421	0.00505	0.00505	0.00563	0.00563	0.00519	0.00519	0.00519	0.00519	0.00561	0.00692	0.00692	0.00736	0.00714	0.00714	0.00646	0.00646	0.00646	0.00646	0.00646	0.00646	0.00646	0.00646
Metric Tons per Day	0.00000	0.00000	0.00018	0.00018	0.00022	0.00022	0.00024	0.00024	0.00023	0.00023	0.00023	0.00023	0.00024	0.00030	0.00030	0.00032	0.00031	0.00031	0.00028	0.00028	0.00028	0.00028	0.00028	0.00028	0.00028	0.00028
Yearly Maximums	0.05052	0.05613	0.06305	0.06576	0.06892	0.07100	0.07309	0.07393	0.07476	0.07604	0.07731	0.07859	0.07987	0.08072	0.08025											
Maximum Metric Tons per Day																										
Maximum Metric Tons per Hour [a]																										
Maximum Metric Tons per Month																										
Month with Maximum																										
Maximum Metric Tons per Year																										
Maximum Average Metric Tons per Hour [b]																										
Year with Maximum																										

Notes:
[a] The hours per day are per 'Manpower Schedule Huntington Be
[b] The hours per year are assumed to allow operation 24 hours per

Huntington Beach Energy Project
Construction Emission Estimates - All Project Stages
April 2014

Table 5.1A.47R Offsite Construction
Exhaust and Fugitive Emissions
Summary

Offsite CO Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Peaker and Tank Area and Stack 3&4 Demolition																																						
Total (lbs/month)	0.94	18.82	22.21	42.82	67.17	74.41	104.74	111.23	119.71	117.72	110.66	76.48	69.99	40.34	30.17																							
Total (lbs/day)	0.04	0.82	0.97	1.86	2.92	3.24	4.55	4.84	5.20	5.12	4.81	3.33	3.04	1.75	1.31																							
Block 1 Construction																																						
Total (lbs/month)																5.08	62.73	71.08	84.90	117.30	123.58	131.69	138.95	164.22	183.08	217.47	215.31	246.99	253.04	261.99	267.54	303.91	320.33	321.77	343.77	346.06	364.91	342.59
Total (lbs/day)																0.22	2.73	3.09	3.69	5.10	5.37	5.73	6.04	7.14	7.96	9.46	9.36	10.74	11.00	11.39	11.63	13.21	13.93	13.99	14.95	15.05	15.87	14.90
Block 2 Construction																																						
Total (lbs/month)																																				51.40	67.56	95.52
Total (lbs/day)																																				2.23	2.94	4.15
Units 1 & 2 Demolition																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Bldgs. 33 & 34 Construction																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Total Offsite CO Emissions (Construction Vehicles)																																						
Pounds per Month	**0.94**	**18.82**	**22.21**	**42.82**	**67.17**	**74.41**	**104.74**	**111.23**	**119.71**	**117.72**	**110.66**	**76.48**	**69.99**	**40.34**	**30.17**	**5.08**	**62.73**	**71.08**	**84.90**	**117.30**	**123.58**	**131.69**	**138.95**	**164.22**	**183.08**	**217.47**	**215.31**	**246.99**	**253.04**	**261.99**	**267.54**	**303.91**	**320.33**	**321.77**	**343.77**	**397.46**	**432.47**	**438.12**
Pounds per Day	**0.04**	**0.82**	**0.97**	**1.86**	**2.92**	**3.24**	**4.55**	**4.84**	**5.20**	**5.12**	**4.81**	**3.33**	**3.04**	**1.75**	**1.31**	**0.22**	**2.73**	**3.09**	**3.69**	**5.10**	**5.37**	**5.73**	**6.04**	**7.14**	**7.96**	**9.46**	**9.36**	**10.74**	**11.00**	**11.39**	**11.63**	**13.21**	**13.93**	**13.99**	**14.95**	**17.28**	**18.80**	**19.05**
Yearly Maximums	**867**	**936**	**957**	**965**	**928**	**923**	**920**	**900**	**906**	**910**	**924**	**952**	**1,040**	**1,153**	**1,330**	**1,515**	**1,757**	**1,948**	**2,139**	**2,321**	**2,508**	**2,705**	**2,895**	**3,099**	**3,333**	**3,582**	**3,803**	**4,074**	**4,341**	**4,633**	**4,916**	**5,212**	**5,435**	**5,656**	**5,587**	**5,532**	**5,496**	**5,427**

Maximum Pounds per Day	**24.49**
Maximum Pounds per Hour [a]	**2.45**
Maximum Pounds per Month	**563.18**
Month with Maximum	**43**
Maximum Pounds per Year	**5,656**
Maximum Average Pounds per Hour [b]	**0.65**
Year with Maximum	**Months 34-45**
Tons per Year	**2.83**

Offsite VOC Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Peaker and Tank Area and Stack 3&4 Demolition																																						
Total (lbs/month)	0.16	0.68	0.75	1.00	3.12	3.35	7.01	7.35	7.53	7.70	7.76	7.24	6.89	2.34	2.13																							
Total (lbs/day)	0.01	0.03	0.03	0.04	0.14	0.15	0.30	0.32	0.33	0.33	0.34	0.31	0.30	0.10	0.09																							
Block 1 Construction																																						
Total (lbs/month)																0.39	1.70	2.40	2.91	4.63	4.76	5.19	6.41	7.64	8.01	9.85	10.89	12.96	13.52	13.62	13.62	13.91	12.94	12.25	12.69	12.37	12.75	9.41
Total (lbs/day)																0.02	0.07	0.10	0.13	0.20	0.21	0.23	0.28	0.33	0.35	0.43	0.47	0.56	0.59	0.59	0.59	0.60	0.56	0.53	0.55	0.54	0.55	0.41
Block 2 Construction																																						
Total (lbs/month)																																				1.12	1.39	2.07
Total (lbs/day)																																				0.05	0.06	0.09
Units 1 & 2 Demolition																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Bldgs. 33 & 34 Construction																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Total Offsite VOC Emissions (Construction Vehicles)																																						
Pounds per Month	**0.16**	**0.68**	**0.75**	**1.00**	**3.12**	**3.35**	**7.01**	**7.35**	**7.53**	**7.70**	**7.76**	**7.24**	**6.89**	**2.34**	**2.13**	**0.39**	**1.70**	**2.40**	**2.91**	**4.63**	**4.76**	**5.19**	**6.41**	**7.64**	**8.01**	**9.85**	**10.89**	**12.96**	**13.52**	**13.62**	**13.62**	**13.91**	**12.94**	**12.25**	**12.69**	**13.49**	**14.14**	**11.47**
Pounds per Day	**0.01**	**0.03**	**0.03**	**0.04**	**0.14**	**0.15**	**0.30**	**0.32**	**0.33**	**0.33**	**0.34**	**0.31**	**0.30**	**0.10**	**0.09**	**0.02**	**0.07**	**0.10**	**0.13**	**0.20**	**0.21**	**0.23**	**0.28**	**0.33**	**0.35**	**0.43**	**0.47**	**0.56**	**0.59**	**0.59**	**0.59**	**0.60**	**0.56**	**0.53**	**0.55**	**0.59**	**0.61**	**0.50**
Yearly Maximums	**54**	**60**	**62**	**63**	**63**	**61**	**60**	**56**	**54**	**51**	**48**	**47**	**47**	**49**	**56**	**65**	**77**	**89**	**100**	**111**	**120**	**129**	**136**	**142**	**148**	**154**	**156**	**159**	**161**	**164**	**167**	**168**	**169**	**172**	**173**	**173**	**173**	**173**

Maximum Pounds per Day	**0.73**
Maximum Pounds per Hour [a]	**0.07**
Maximum Pounds per Month	**16.70**
Month with Maximum	**42**
Maximum Pounds per Year	**176**
Maximum Average Pounds per Hour [b]	**0.02**
Year with Maximum	**Months 39-50**
Tons per Year	**0.09**

Offsite NOx Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Peaker and Tank Area and Stack 3&4 Demolition																																						
Total (lbs/month)	2.92	7.47	7.79	5.48	40.35	42.46	106.18	111.05	111.87	102.74	105.87	106.60	102.28	29.72	28.83																							
Total (lbs/day)	0.13	0.32	0.34	0.24	1.75	1.85	4.62	4.83	4.86	4.47	4.60	4.63	4.45	1.29	1.25																							
Block 1 Construction																																						
Total (lbs/month)																6.04	14.64	25.85	30.72	54.63	55.23	54.68	73.83	88.36	90.00	112.55	130.87	158.31	166.24	165.78	164.41	160.16	139.37	114.04	115.78	110.45	111.94	66.61
Total (lbs/day)																0.26	0.64	1.12	1.34	2.38	2.40	2.38	3.21	3.84	3.91	4.89	5.69	6.88	7.23	7.21	7.15	6.96	6.06	4.96	5.03	4.80	4.87	2.90
Block 2 Construction																																						
Total (lbs/month)																																				8.88	10.37	15.74
Total (lbs/day)																																				0.39	0.45	0.68
Units 1 & 2 Demolition																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Bldgs. 33 & 34 Construction																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Total Offsite NOx Emissions (Construction Vehicles)																																						
Pounds per Month	**2.92**	**7.47**	**7.79**	**5.48**	**40.35**	**42.46**	**106.18**	**111.05**	**111.87**	**102.74**	**105.87**	**106.60**	**102.28**	**29.72**	**28.83**	**6.04**	**14.64**	**25.85**	**30.72**	**54.63**	**55.23**	**54.68**	**73.83**	**88.36**	**90.00**	**112.55**	**130.87**	**158.31**	**166.24**	**165.78**	**164.41**	**160.16**	**139.37**	**114.04**	**115.78**	**119.33**	**122.31**	**82.35**
Pounds per Day	**0.13**	**0.32**	**0.34**	**0.24**	**1.75**	**1.85**	**4.62**	**4.83**	**4.86**	**4.47**	**4.60**	**4.63**	**4.45**	**1.29**	**1.25**	**0.26**	**0.64**	**1.12**	**1.34**	**2.38**	**2.40**	**2.38**	**3.21**	**3.84**	**3.91**	**4.89**	**5.69**	**6.88**	**7.23**	**7.21**	**7.15**	**6.96**	**6.06**	**4.96**	**5.03**	**5.19**	**5.32**	**3.58**
Yearly Maximums	**751**	**850**	**872**	**893**	**894**	**868**	**852**	**776**	**720**	**663**	**615**	**583**	**565**	**553**	**635**	**737**	**890**	**1,041**	**1,181**	**1,315**	**1,420**	**1,505**	**1,564**	**1,606**	**1,637**	**1,669**	**1,639**	**1,633**	**1,605**	**1,585**	**1,570**	**1,514**	**1,482**	**1,501**	**1,538**	**1,566**	**1,598**	**1,631**

Maximum Pounds per Day	**7.23**
Maximum Pounds per Hour [a]	**0.72**
Maximum Pounds per Month	**166.24**
Month with Maximum	**29**
Maximum Pounds per Year	**1,708**
Maximum Average Pounds per Hour [b]	**0.19**
Year with Maximum	**Months 40-51**
Tons per Year	**0.85**

Huntington Beach Energy Project
Construction Emission Estimates - All Project Stages
April 2014

Table 5.1A.47R Offsite Construction
Exhaust and Fugitive Emissions
Summary

Offsite SOx Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Peaker and Tank Area and Stack 3&4 Demolition																																						
Total (lbs/month)	0.008	0.054	0.062	0.099	0.220	0.239	0.431	0.455	0.474	0.478	0.470	0.402	0.378	0.151	0.128																							
Total (lbs/day)	0.000	0.002	0.003	0.004	0.010	0.010	0.019	0.020	0.021	0.021	0.020	0.017	0.016	0.007	0.006																							
Block 1 Construction																																						
Total (lbs/month)																0.025	0.173	0.217	0.257	0.384	0.400	0.431	0.497	0.590	0.636	0.770	0.813	0.954	0.988	1.006	1.015	1.085	1.067	1.039	1.093	1.082	1.128	0.950
Total (lbs/day)																0.001	0.008	0.009	0.011	0.017	0.017	0.019	0.022	0.026	0.028	0.033	0.035	0.041	0.043	0.044	0.044	0.047	0.046	0.045	0.048	0.047	0.049	0.041
Block 2 Construction																																						
Total (lbs/month)																																				0.148	0.191	0.271
Total (lbs/day)																																				0.006	0.008	0.012
Units 1 & 2 Demolition																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Bldgs. 33 & 34 Construction																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Total Offsite SOx Emissions (Construction Vehicles)																																						
Pounds per Month	**0.008**	**0.054**	**0.062**	**0.099**	**0.220**	**0.239**	**0.431**	**0.455**	**0.474**	**0.478**	**0.470**	**0.402**	**0.378**	**0.151**	**0.128**	**0.025**	**0.173**	**0.217**	**0.257**	**0.384**	**0.400**	**0.431**	**0.497**	**0.590**	**0.636**	**0.770**	**0.813**	**0.954**	**0.988**	**1.006**	**1.015**	**1.085**	**1.067**	**1.039**	**1.093**	**1.230**	**1.319**	**1.221**
Pounds per Day	**0.000**	**0.002**	**0.003**	**0.004**	**0.010**	**0.010**	**0.019**	**0.020**	**0.021**	**0.021**	**0.020**	**0.017**	**0.016**	**0.007**	**0.006**	**0.001**	**0.008**	**0.009**	**0.011**	**0.017**	**0.017**	**0.019**	**0.022**	**0.026**	**0.028**	**0.033**	**0.035**	**0.041**	**0.043**	**0.044**	**0.044**	**0.047**	**0.046**	**0.045**	**0.048**	**0.053**	**0.057**	**0.053**
Yearly Maximums	**3**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**3**	**3**	**3**	**4**	**4**	**5**	**5**	**6**	**7**	**8**	**8**	**9**	**10**	**10**	**11**	**12**	**12**	**13**	**13**	**14**	**15**	**15**	**16**	**16**	**17**	**17**	**17**	**17**	**17**

Maximum Pounds per Day	**0.07**
Maximum Pounds per Hour [a]	**0.01**
Maximum Pounds per Month	**1.69**
Month with Maximum	**45**
Maximum Pounds per Year	**17**
Maximum Average Pounds per Hour [b]	**0.002**
Year with Maximum	**Months 39 - 50**
Tons per Year	**0.01**

Offsite Exhaust PM_{10} Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Peaker and Tank Area and Stack 3&4 Demolition																																						
Total (lbs/month)	0.28	4.21	4.94	9.23	15.39	16.99	25.23	26.75	28.57	27.91	26.49	19.24	17.74	9.40	7.21																							
Total (lbs/day)	0.01	0.18	0.21	0.40	0.67	0.74	1.10	1.16	1.24	1.21	1.15	0.84	0.77	0.41	0.31																							
Block 1 Construction																																						
Total (lbs/month)																1.33	14.80	17.03	20.28	28.39	29.84	31.72	33.92	40.13	44.51	53.02	53.03	61.07	62.68	64.72	65.96	74.21	77.41	77.08	82.19	82.57	86.95	80.64
Total (lbs/day)																0.03	0.60	0.65	0.78	1.03	1.09	1.16	1.16	1.36	1.56	1.82	1.73	1.95	1.98	2.08	2.14	2.54	2.79	2.86	3.08	3.13	3.32	3.28
Block 2 Construction																																						
Total (lbs/month)																																				14.04	18.42	26.02
Total (lbs/day)																																				0.61	0.80	1.13
Units 1 & 2 Demolition																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Bldgs. 33 & 34 Construction																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Total Offsite Exhaust PM_{10} Emissions (Construction Vehicles)																																						
Pounds per Month	**0.28**	**4.21**	**4.94**	**9.23**	**15.39**	**16.99**	**25.23**	**26.75**	**28.57**	**27.91**	**26.49**	**19.24**	**17.74**	**9.40**	**7.21**	**1.33**	**14.80**	**17.03**	**20.28**	**28.39**	**29.84**	**31.72**	**33.92**	**40.13**	**44.51**	**53.02**	**53.03**	**61.07**	**62.68**	**64.72**	**65.96**	**74.21**	**77.41**	**77.08**	**82.19**	**96.61**	**105.37**	**106.66**
Pounds per Day	**0.01**	**0.18**	**0.21**	**0.40**	**0.67**	**0.74**	**1.10**	**1.16**	**1.24**	**1.21**	**1.15**	**0.84**	**0.77**	**0.41**	**0.31**	**0.03**	**0.60**	**0.65**	**0.78**	**1.03**	**1.09**	**1.16**	**1.16**	**1.36**	**1.56**	**1.82**	**1.73**	**1.95**	**1.98**	**2.08**	**2.14**	**2.54**	**2.79**	**2.86**	**3.08**	**3.74**	**4.12**	**4.42**
Yearly Maximums	**205**	**223**	**228**	**230**	**222**	**222**	**222**	**217**	**218**	**220**	**223**	**231**	**252**	**279**	**322**	**368**	**428**	**476**	**523**	**569**	**615**	**662**	**708**	**756**	**813**	**873**	**927**	**994**	**1,061**	**1,134**	**1,205**	**1,279**	**1,338**	**1,398**	**1,392**	**1,391**	**1,395**	**1,391**

Maximum Pounds per Day	**6.05**
Maximum Pounds per Hour [a]	**0.61**
Maximum Pounds per Month	**140.01**
Month with Maximum	**43**
Maximum Pounds per Year	**1,398**
Maximum Average Pounds per Hour [b]	**0.16**
Year with Maximum	**Months 34 - 45**
Tons per Year	**0.70**

Offsite Fugitive PM_{10} Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Peaker and Tank Area and Stack 3&4 Demolition [c]																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Block 1 Construction																																						
Total (lbs/month)																0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Total (lbs/day)																0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Block 2 Construction																																						
Total (lbs/month)																																				0.35	0.35	0.35
Total (lbs/day)																																				0.02	0.02	0.02
Units 1 & 2 Demolition [c]																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Bldgs. 33 & 34 Construction [c]																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Total Offsite Fugitive PM_{10} Emissions (Grading)																																						
Pounds per Month	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.71**	**0.71**	**0.71**
Pounds per Day	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.03**	**0.03**	**0.03**
Yearly Maximums	**0.0**	**0.0**	**0.0**	**0.0**	**0.4**	**0.7**	**1.1**	**1.4**	**1.8**	**2.1**	**2.5**	**2.8**	**3.2**	**3.5**	**3.9**	**4.2**	**4.2**	**4.2**	**4.2**	**4.2**	**4.2**	**4.2**	**4.2**	**4.2**	**4.6**	**4.9**	**5.3**	**5.7**	**6.0**	**6.4**	**6.7**	**7.1**	**7.4**	**7.8**	**7.8**	**7.8**	**7.4**	**7.1**

Maximum Pounds per Day	**0.03**
Maximum Pounds per Hour [a]	**0.003**
Maximum Pounds per Month	**0.71**
Month with Maximum	**36 - 45**
Maximum Pounds per Year	**7.8**
Maximum Average Pounds per Hour [b]	**0.0009**
Year with Maximum	**Months 34 - 45, 35 - 46, or 36 -**
Tons per Year	**0.004**

Table 5.1A.47R Offsite Construction Exhaust and Fugitive Emissions Summary

Total Offsite PM_{10} Emissions (Exhaust and Fugitive)

Parameter	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Pounds per Month	0.28	4.21	4.94	9.23	15.39	16.99	25.23	26.75	28.57	27.91	26.49	19.24	17.74	9.40	7.21	1.69	15.16	17.39	20.63	28.74	30.20	32.08	34.28	40.49	44.87	53.37	53.38	61.43	63.04	65.08	66.32	74.56	77.76	77.44	82.55	97.32	106.08	107.37
Pounds per Day	0.01	0.18	0.21	0.40	0.67	0.74	1.10	1.16	1.24	1.21	1.15	0.84	0.77	0.41	0.31	0.05	0.62	0.67	0.79	1.05	1.11	1.17	1.17	1.38	1.57	1.84	1.74	1.97	2.00	2.09	2.16	2.55	2.81	2.87	3.09	3.77	4.15	4.45
Yearly Maximums	205	223	228	230	223	222	223	218	220	222	226	234	255	282	326	372	432	480	528	573	619	667	712	760	817	878	932	1,000	1,067	1,140	1,212	1,286	1,345	1,406	1,400	1,399	1,403	1,398

Maximum Pounds per Day	6.08
Maximum Pounds per Hour [a]	0.61
Maximum Pounds per Month	140.72
Month with Maximum	43
Maximum Pounds per Year	1,406
Maximum Average Pounds per Hour [b]	0.16
Year with Maximum	Months 34 - 45
Tons per Year	0.70

Offsite Exhaust $PM_{2.5}$ Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Peaker and Tank Area and Stack 3&4 Demolition																																						
Total (lbs/month)	0.14	1.30	1.50	2.60	5.06	5.54	9.23	9.75	10.26	9.97	9.66	7.72	7.22	3.24	2.63																							
Total (lbs/day)	0.01	0.06	0.07	0.11	0.22	0.24	0.40	0.42	0.45	0.43	0.42	0.34	0.31	0.14	0.11																							
Block 1 Construction																																						
Total (lbs/month)																0.50	4.34	5.21	6.20	8.95	9.36	9.90	10.96	12.99	14.22	17.06	17.51	20.35	20.98	21.52	21.82	23.95	24.31	23.71	25.14	25.11	26.34	23.51
Total (lbs/day)																0.02	0.19	0.23	0.27	0.39	0.41	0.43	0.48	0.56	0.62	0.74	0.76	0.88	0.91	0.94	0.95	1.04	1.06	1.03	1.09	1.09	1.15	1.02
Block 2 Construction																																						
Total (lbs/month)																																				4.02	5.25	7.44
Total (lbs/day)																																				0.17	0.23	0.32
Units 1 & 2 Demolition																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Bldgs. 33 & 34 Construction																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Total Offsite Exhaust $PM_{2.5}$ Emissions (Construction Vehicles)																																						
Pounds per Month	0.14	1.30	1.50	2.60	5.06	5.54	9.23	9.75	10.26	9.97	9.66	7.72	7.22	3.24	2.63	0.50	4.34	5.21	6.20	8.95	9.36	9.90	10.96	12.99	14.22	17.06	17.51	20.35	20.98	21.52	21.82	23.95	24.31	23.71	25.14	29.14	31.58	30.94
Pounds per Day	0.01	0.06	0.07	0.11	0.22	0.24	0.40	0.42	0.45	0.43	0.42	0.34	0.31	0.14	0.11	0.02	0.19	0.23	0.27	0.39	0.41	0.43	0.48	0.56	0.62	0.74	0.76	0.88	0.91	0.94	0.95	1.04	1.06	1.03	1.09	1.27	1.37	1.35
Yearly Maximums	73	80	82	83	81	80	80	77	76	75	75	76	82	89	102	117	137	154	170	186	201	216	229	244	260	277	291	309	327	346	365	384	399	416	415	415	417	417

Maximum Pounds per Day	1.79
Maximum Pounds per Hour [a]	0.18
Maximum Pounds per Month	41.15
Month with Maximum	45
Maximum Pounds per Year	417
Maximum Average Pounds per Hour [b]	0.05
Year with Maximum	Months 37 - 48
Tons per Year	0.21

Offsite Fugitive $PM_{2.5}$ Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Peaker and Tank Area and Stack 3&4 Demolition [c]																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Block 1 Construction																																						
Total (lbs/month)																0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
Total (lbs/day)																0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Block 2 Construction																																						
Total (lbs/month)																																				0.038	0.038	0.038
Total (lbs/day)																																				0.002	0.002	0.002
Units 1 & 2 Demolition [c]																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Bldgs. 33 & 34 Construction [c]																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Total Offsite Fugitive $PM_{2.5}$ Emissions (Grading)																																						
Pounds per Month	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.076	0.076	0.076
Pounds per Day	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003
Yearly Maximums	0.00	0.00	0.00	0.00	0.04	0.08	0.11	0.15	0.19	0.23	0.27	0.31	0.34	0.38	0.42	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.50	0.53	0.57	0.61	0.65	0.69	0.73	0.76	0.80	0.84	0.84	0.84	0.80	0.76

Maximum Pounds per Day	0.003
Maximum Pounds per Hour [a]	0.0003
Maximum Pounds per Month	0.08
Month with Maximum	36 - 35
Maximum Pounds per Year	0.84
Maximum Average Pounds per Hour [b]	0.0001
Year with Maximum	35 - 46, or 36 - 47
Tons per Year	0.0004

Table 5.1A.47R Offsite Construction Exhaust and Fugitive Emissions Summary

Total Offsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

Parameter	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Pounds per Month	0.14	1.30	1.50	2.60	5.06	5.54	9.23	9.75	10.26	9.97	9.66	7.72	7.22	3.24	2.63	0.54	4.38	5.25	6.24	8.99	9.40	9.94	11.00	13.03	14.25	17.10	17.55	20.39	21.02	21.56	21.86	23.99	24.35	23.75	25.18	29.21	31.66	31.02
Pounds per Day	0.01	0.06	0.07	0.11	0.22	0.24	0.40	0.42	0.45	0.43	0.42	0.34	0.31	0.14	0.11	0.02	0.19	0.23	0.27	0.39	0.41	0.43	0.48	0.57	0.62	0.74	0.76	0.89	0.91	0.94	0.95	1.04	1.06	1.03	1.09	1.27	1.38	1.35
Yearly Maximums	73	80	82	83	81	80	80	77	76	75	75	77	82	89	103	118	138	154	170	186	201	216	230	244	260	278	292	310	327	347	366	385	400	417	416	416	418	418

Maximum Pounds per Day	1.79
Maximum Pounds per Hour [a]	0.179
Maximum Pounds per Month	41.22
Month with Maximum	45
Maximum Pounds per Year	418
Maximum Average Pounds per Hour [b]	0.048
Year with Maximum	Months 37-48
Tons per Year	0.21

Offsite CO_2 Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Peaker and Tank Area and Stack 3&4 Demolition																																						
Total (metric tons/month)	0.38	2.35	2.67	4.15	9.77	10.59	19.67	20.71	21.51	21.76	21.52	18.73	17.69	6.80	5.84																							
Total (metric tons/day)	0.02	0.10	0.12	0.18	0.42	0.46	0.86	0.90	0.94	0.95	0.94	0.81	0.77	0.30	0.25																							
Block 1 Construction																																						
Total (metric tons/month)																1.16	7.38	9.43	11.15	16.85	17.49	18.92	22.07	26.24	28.15	34.16	36.35	42.78	44.36	45.11	45.43	48.17	46.94	45.48	47.72	47.15	49.06	40.54
Total (metric tons/day)																0.05	0.32	0.41	0.48	0.73	0.76	0.82	0.96	1.14	1.22	1.49	1.58	1.86	1.93	1.96	1.98	2.09	2.04	1.98	2.07	2.05	2.13	1.76
Block 2 Construction																																						
Total (metric tons/month)																																				6.67	8.58	12.21
Total (metric tons/day)																																				0.29	0.37	0.53
Units 1 & 2 Demolition																																						
Total (metric tons/month)																																						
Total (metric tons/day)																																						
Bldgs. 33 & 34 Construction																																						
Total (metric tons/month)																																						
Total (metric tons/day)																																						
Total Offsite CO_2 Emissions (Construction Vehicles)																																						
Metric Tons per Month	0.38	2.35	2.67	4.15	9.77	10.59	19.67	20.71	21.51	21.76	21.52	18.73	17.69	6.80	5.84	1.16	7.38	9.43	11.15	16.85	17.49	18.92	22.07	26.24	28.15	34.16	36.35	42.78	44.36	45.11	45.43	48.17	46.94	45.48	47.72	53.82	57.65	52.75
Metric Tons per Day	0.02	0.10	0.12	0.18	0.42	0.46	0.86	0.90	0.94	0.95	0.94	0.81	0.77	0.30	0.25	0.05	0.32	0.41	0.48	0.73	0.76	0.82	0.96	1.14	1.22	1.49	1.58	1.86	1.93	1.96	1.98	2.09	2.04	1.98	2.07	2.34	2.51	2.29
Yearly Maximums	154	171	176	179	176	173	172	164	160	156	153	154	161	171	199	229	271	308	344	378	409	439	465	491	518	548	567	594	619	647	675	699	720	748	753	759	767	772

Maximum Metric Tons per Day	3.26
Maximum Metric Tons per Hour [a]	0.33
Maximum Metric Tons per Month	74.92
Month with Maximum	45
Maximum Metric Tons per Year	781
Maximum Average Metric Tons per Hour [b]	0.09
Year with Maximum	Months 39 - 50

Offsite N_2O Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Peaker and Tank Area and Stack 3&4 Demolition																																						
Total (metric tons/month)	0.0000011	0.0000201	0.0000237	0.0000451	0.0000721	0.0000798	0.0001143	0.0001213	0.0001303	0.0001283	0.0001210	0.0000851	0.0000781	0.0000436	0.0000329																							
Total (metric tons/day)	0.0000000	0.0000009	0.0000010	0.0000020	0.0000031	0.0000035	0.0000050	0.0000053	0.0000057	0.0000056	0.0000053	0.0000037	0.0000034	0.0000019	0.0000014																							
Block 1 Construction																																						
Total (metric tons/month)																0.0000060	0.0000718	0.0000818	0.0000973	0.0001351	0.0001423	0.0001517	0.0001609	0.0001903	0.0002118	0.0002518	0.0002503	0.0002876	0.0002948	0.0003050	0.0003112	0.0003522	0.0003698	0.0003708	0.0003958	0.0003981	0.0004196	0.0003921
Total (metric tons/day)																0.0000003	0.0000031	0.0000036	0.0000042	0.0000059	0.0000062	0.0000066	0.0000070	0.0000083	0.0000092	0.0000109	0.0000109	0.0000125	0.0000128	0.0000133	0.0000135	0.0000153	0.0000161	0.0000161	0.0000172	0.0000173	0.0000182	0.0000170
Block 2 Construction																																						
Total (metric tons/month)																																				0.0000685	0.0000899	0.0001269
Total (metric tons/day)																																				0.0000030	0.0000039	0.0000055
Units 1 & 2 Demolition																																						
Total (metric tons/month)																																						
Total (metric tons/day)																																						
Bldgs. 33 & 34 Construction																																						
Total (metric tons/month)																																						
Total (metric tons/day)																																						
Total Offsite N_2O Emissions (Construction Vehicles)																																						
Metric Tons per Month	0.00000	0.00002	0.00002	0.00005	0.00007	0.00008	0.00011	0.00012	0.00013	0.00013	0.00012	0.00009	0.00008	0.00004	0.00003	0.00001	0.00007	0.00008	0.00010	0.00014	0.00014	0.00015	0.00016	0.00019	0.00021	0.00025	0.00025	0.00029	0.00029	0.00030	0.00031	0.00035	0.00037	0.00037	0.00040	0.00047	0.00051	0.00052
Metric Tons per Day	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00001	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002
Yearly Maximums	0.00094	0.00102	0.00104	0.00105	0.00101	0.00101	0.00101	0.00100	0.00101	0.00102	0.00105	0.00109	0.00119	0.00133	0.00153	0.00175	0.00203	0.00226	0.00248	0.00269	0.00291	0.00314	0.00336	0.00359	0.00387	0.00417	0.00443	0.00476	0.00510	0.00546	0.00581	0.00618	0.00647	0.00677	0.00674	0.00673	0.00675	0.00673

Maximum Metric Tons per Day	0.000030
Maximum Metric Tons per Hour [a]	0.0000030
Maximum Metric Tons per Month	0.00068
Month with Maximum	43
Maximum Metric Tons per Year	0.00677
Maximum Average Metric Tons per Hour [b]	0.00000077
Year with Maximum	Months 34 - 45

Offsite CH_4 Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Peaker and Tank Area and Stack 3&4 Demolition																																						
Total (metric tons/month)	0.0000012	0.0000883	0.0001055	0.0002153	0.0002975	0.0003325	0.0004093	0.0004368	0.0004798	0.0004644	0.0004232	0.0002444	0.0002169	0.0001669	0.0001153																							
Total (metric tons/day)	0.0000001	0.0000038	0.0000046	0.0000094	0.0000129	0.0000145	0.0000178	0.0000190	0.0000209	0.0000202	0.0000184	0.0000106	0.0000094	0.0000073	0.0000050																							
Block 1 Construction																																						
Total (metric tons/month)																0.0000198	0.0003307	0.0003613	0.0004314	0.0005787	0.0006131	0.0006499	0.0006597	0.0007779	0.0008811	0.0010374	0.0009956	0.0011290	0.0011501	0.0012010	0.0012344	0.0014453	0.0015711	0.0015990	0.0017193	0.0017418	0.0018449	0.0018023
Total (metric tons/day)																0.0000009	0.0000144	0.0000157	0.0000188	0.0000252	0.0000267	0.0000283	0.0000287	0.0000338	0.0000383	0.0000451	0.0000433	0.0000491	0.0000500	0.0000522	0.0000537	0.0000628	0.0000683	0.0000695	0.0000748	0.0000757	0.0000802	0.0000784
Block 2 Construction																																				0.0003204	0.0004236	0.0005968
Total (metric tons/month)																																				0.0000139	0.0000184	0.0000259
Total (metric tons/day)																																						
Units 1 & 2 Demolition																																						
Total (metric tons/month)																																						
Total (metric tons/day)																																						
Bldgs. 33 & 34 Construction																																						
Total (metric tons/month)																																						
Total (metric tons/day)																																						
Total Offsite CH_4 Emissions (Construction Vehicles)																																						
Metric Tons per Month	0.00000	0.00009	0.00011	0.00022	0.00030	0.00033	0.00041	0.00044	0.00048	0.00046	0.00042	0.00024	0.00022	0.00017	0.00012	0.00002	0.00033	0.00036	0.00043	0.00058	0.00061	0.00065	0.00066	0.00078	0.00088	0.00104	0.00100	0.00113	0.00115	0.00120	0.00123	0.00145	0.00157	0.00160	0.00172	0.00206	0.00227	0.00240
Metric Tons per Day	0.00000	0.00000	0.00000	0.00001	0.00001	0.00001	0.00002	0.00002	0.00002	0.00002	0.00002	0.00001	0.00001	0.00001	0.00001	0.00000	0.00001	0.00002	0.00002	0.00003	0.00003	0.00003	0.00003	0.00003	0.00004	0.00005	0.00004	0.00005	0.00005	0.00005	0.00005	0.00006	0.00007	0.00007	0.00007	0.00009	0.00010	0.00010
Yearly Maximums	0.00350	0.00371	0.00379	0.00380	0.00361	0.00364	0.00367	0.00369	0.00383	0.00397	0.00415	0.00439	0.00492	0.00559	0.00646	0.00734	0.00845	0.00927	0.01010	0.01091	0.01177	0.01273	0.01368	0.01474	0.01603	0.01741	0.01877	0.02040	0.02206	0.02387	0.02562	0.02753	0.02900	0.03039	0.03014	0.03001	0.03000	0.02979

Maximum Metric Tons per Day	0.000137
Maximum Metric Tons per Hour [a]	0.0000137
Maximum Metric Tons per Month	0.00315
Month with Maximum	43
Maximum Metric Tons per Year	0.03039
Maximum Average Metric Tons per Hour [b]	0.0000035
Year with Maximum	Months 34 - 45

Notes:
[a] The hours per day are per 'Manpower Schedule Huntington Beach 03.13.12.xls 10 hours/day
[b] The hours per year are assumed to allow operation 24 hours per day, 7 days per week despite the actual construction schedule per 'Manpower_Schedule_Huntington_Beach 03.13. 8,760 hours/year
[c] There are no offsite activities generating fugitive dust during Peaker and Tank Area and Stack 3&4 Demolition, Units 1&2 Demolition and Bldgs. 33 & 34 Construction.

Table 5.1A.47R Offsite Construction
Exhaust and Fugitive Emissions
Summary

Offsite CO Emissions

	CO Emissions by Month																																								
Construction Step	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**
Peaker and Tank Area and Stack 3&4 Demolition																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Block 1 Construction																																									
Total (lbs/month)	358.17	358.17	367.60	367.60	364.20	317.06	309.21																																		
Total (lbs/day)	15.57	15.57	15.98	15.98	15.83	13.79	13.44																																		
Block 2 Construction																																									
Total (lbs/month)	128.18	156.17	177.12	177.90	198.99	210.21	231.99	252.73	288.42	361.53	363.24	360.04	355.77	354.83	351.91	356.17	336.65	349.44	332.38	328.12	252.74	202.71	134.06	132.94	128.67																
Total (lbs/day)	5.57	6.79	7.70	7.73	8.65	9.14	10.09	10.99	12.54	15.72	15.79	15.65	15.47	15.43	15.30	15.49	14.64	15.19	14.45	14.27	10.99	8.81	5.83	5.78	5.59																
Units 1 & 2 Demolition																																									
Total (lbs/month)																													31.70	35.83	53.52	71.81	75.15	82.23	84.01	84.01	92.28	92.28	104.68	104.68	108.81
Total (lbs/day)																													1.38	1.56	2.33	3.12	3.27	3.58	3.65	3.65	4.01	4.01	4.55	4.55	4.73
Bldgs. 33 & 34 Construction																																									
Total (lbs/month)																																							40.38	60.60	62.30
Total (lbs/day)																																							1.76	2.63	2.71
Total Offsite CO Emissions (Construction Vehicles)																																									
Pounds per Month	**486.35**	**514.34**	**544.72**	**545.51**	**563.18**	**527.27**	**541.20**	**252.73**	**288.42**	**361.53**	**363.24**	**360.04**	**355.77**	**354.83**	**351.91**	**356.17**	**336.65**	**349.44**	**332.38**	**328.12**	**252.74**	**202.71**	**134.06**	**132.94**	**128.67**	**0.00**	**0.00**	**0.00**	**31.70**	**35.83**	**53.52**	**71.81**	**75.15**	**82.23**	**84.01**	**84.01**	**92.28**	**92.28**	**145.05**	**165.28**	**171.11**
Pounds per Day	**21.15**	**22.36**	**23.68**	**23.72**	**24.49**	**22.92**	**23.53**	**10.99**	**12.54**	**15.72**	**15.79**	**15.65**	**15.47**	**15.43**	**15.30**	**15.49**	**14.64**	**15.19**	**14.45**	**14.27**	**10.99**	**8.81**	**5.83**	**5.78**	**5.59**	**0.00**	**0.00**	**0.00**	**1.38**	**1.56**	**2.33**	**3.12**	**3.27**	**3.58**	**3.65**	**3.65**	**4.01**	**4.01**	**6.31**	**7.19**	**7.44**
Yearly Maximums	**5,349**	**5,218**	**5,058**	**4,866**	**4,676**	**4,450**	**4,272**	**4,063**	**4,139**	**4,103**	**3,944**	**3,715**	**3,488**	**3,261**	**2,906**	**2,554**	**2,198**	**1,893**	**1,579**	**1,300**	**1,044**	**866**	**746**	**696**	**647**	**611**	**703**	**848**	**1,013**	**1,153**	**1,295**	**1,420**	**1,522**	**1,629**	**1,729**	**1,834**	**1,927**	**1,997**	**2,054**	**2,047**	**1,923**
Maximum Pounds per Day																																									
Maximum Pounds per Hour [a]																																									
Maximum Pounds per Month																																									
Month with Maximum																																									
Maximum Pounds per Year																																									
Maximum Average Pounds per Hour [b]																																									
Year with Maximum																																									
Tons per Year																																									

Offsite VOC Emissions

	VOC Emissions by Month																																								
Construction Step	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**
Peaker and Tank Area and Stack 3&4 Demolition																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Block 1 Construction																																									
Total (lbs/month)	8.99	8.99	9.18	9.18	7.67	6.74	6.58																																		
Total (lbs/day)	0.39	0.39	0.40	0.40	0.33	0.29	0.29																																		
Block 2 Construction																																									
Total (lbs/month)	5.48	6.12	7.19	7.52	6.61	8.07	10.10	12.74	12.65	13.96	14.24	13.71	13.00	11.85	11.16	11.87	9.63	11.75	8.92	8.22	6.93	5.44	4.26	4.88	4.17																
Total (lbs/day)	0.24	0.27	0.31	0.33	0.29	0.35	0.44	0.55	0.55	0.61	0.62	0.60	0.57	0.52	0.49	0.52	0.42	0.51	0.39	0.36	0.30	0.24	0.19	0.21	0.18																
Units 1 & 2 Demolition																																									
Total (lbs/month)																													2.95	3.63	3.91	4.80	4.65	4.76	5.40	5.40	6.74	6.74	8.76	8.76	9.43
Total (lbs/day)																													0.13	0.16	0.17	0.21	0.20	0.21	0.23	0.23	0.29	0.29	0.38	0.38	0.41
Bldgs. 33 & 34 Construction																																									
Total (lbs/month)																																							0.69	1.85	1.80
Total (lbs/day)																																							0.03	0.08	0.08
Total Offsite VOC Emissions (Construction Vehicles)																																									
Pounds per Month	**14.47**	**15.11**	**16.37**	**16.70**	**14.28**	**14.81**	**16.68**	**12.74**	**12.65**	**13.96**	**14.24**	**13.71**	**13.00**	**11.85**	**11.16**	**11.87**	**9.63**	**11.75**	**8.92**	**8.22**	**6.93**	**5.44**	**4.26**	**4.88**	**4.17**	**0.00**	**0.00**	**0.00**	**2.95**	**3.63**	**3.91**	**4.80**	**4.65**	**4.76**	**5.40**	**5.40**	**6.74**	**6.74**	**9.45**	**10.61**	**11.23**
Pounds per Day	**0.63**	**0.66**	**0.71**	**0.73**	**0.62**	**0.64**	**0.73**	**0.55**	**0.55**	**0.61**	**0.62**	**0.60**	**0.57**	**0.52**	**0.49**	**0.52**	**0.42**	**0.51**	**0.39**	**0.36**	**0.30**	**0.24**	**0.19**	**0.21**	**0.18**	**0.00**	**0.00**	**0.00**	**0.13**	**0.16**	**0.17**	**0.21**	**0.20**	**0.21**	**0.23**	**0.23**	**0.29**	**0.29**	**0.41**	**0.46**	**0.49**
Yearly Maximums	**176**	**174**	**171**	**166**	**161**	**156**	**153**	**145**	**141**	**135**	**127**	**117**	**108**	**99**	**87**	**76**	**64**	**58**	**49**	**44**	**41**	**39**	**38**	**39**	**40**	**42**	**49**	**58**	**69**	**77**	**86**	**95**	**102**	**108**	**115**	**121**	**124**	**126**	**126**	**122**	**116**
Maximum Pounds per Day																																									
Maximum Pounds per Hour [a]																																									
Maximum Pounds per Month																																									
Month with Maximum																																									
Maximum Pounds per Year																																									
Maximum Average Pounds per Hour [b]																																									
Year with Maximum																																									
Tons per Year																																									

Offsite NOx Emissions

	NOx Emissions by Month																																								
Construction Step	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**
Peaker and Tank Area and Stack 3&4 Demolition																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Block 1 Construction																																									
Total (lbs/month)	56.82	56.82	57.57	57.57	35.25	31.53	30.90																																		
Total (lbs/day)	2.47	2.47	2.50	2.50	1.53	1.37	1.34																																		
Block 2 Construction																																									
Total (lbs/month)	68.30	73.64	87.96	93.54	73.47	96.53	126.99	151.67	143.83	151.02	155.12	147.44	137.20	119.34	109.22	119.46	88.17	118.89	77.93	61.78	55.84	43.00	37.59	46.41	37.17																
Total (lbs/day)	2.97	3.20	3.82	4.07	3.19	4.20	5.52	6.59	6.25	6.57	6.74	6.41	5.97	5.19	4.75	5.19	3.83	5.17	3.39	2.69	2.43	1.87	1.63	2.02	1.62																
Units 1 & 2 Demolition																																									
Total (lbs/month)																													41.05	51.02	52.61	57.99	55.37	55.96	64.81	64.81	82.90	82.90	110.03	110.03	119.07
Total (lbs/day)																													1.78	2.22	2.29	2.52	2.41	2.43	2.82	2.82	3.60	3.60	4.78	4.78	5.18
Bldgs. 33 & 34 Construction																																									
Total (lbs/month)																																							4.42	18.96	17.96
Total (lbs/day)																																							0.19	0.82	0.78
Total Offsite NOx Emissions (Construction Vehicles)																																									
Pounds per Month	**125.13**	**130.46**	**145.53**	**151.11**	**108.72**	**128.05**	**157.90**	**151.67**	**143.83**	**151.02**	**155.12**	**147.44**	**137.20**	**119.34**	**109.22**	**119.46**	**88.17**	**118.89**	**77.93**	**61.78**	**55.84**	**43.00**	**37.59**	**46.41**	**37.17**	**0.00**	**0.00**	**0.00**	**41.05**	**51.02**	**52.61**	**57.99**	**55.37**	**55.96**	**64.81**	**64.81**	**82.90**	**82.90**	**114.45**	**128.99**	**137.02**
Pounds per Day	**5.44**	**5.67**	**6.33**	**6.57**	**4.73**	**5.57**	**6.87**	**6.59**	**6.25**	**6.57**	**6.74**	**6.41**	**5.97**	**5.19**	**4.75**	**5.19**	**3.83**	**5.17**	**3.39**	**2.69**	**2.43**	**1.87**	**1.63**	**2.02**	**1.62**	**0.00**	**0.00**	**0.00**	**1.78**	**2.22**	**2.29**	**2.52**	**2.41**	**2.43**	**2.82**	**2.82**	**3.60**	**3.60**	**4.98**	**5.61**	**5.96**
Yearly Maximums	**1,696**	**1,708**	**1,697**	**1,661**	**1,629**	**1,608**	**1,599**	**1,519**	**1,429**	**1,341**	**1,233**	**1,116**	**1,015**	**915**	**795**	**686**	**567**	**520**	**452**	**426**	**423**	**422**	**435**	**462**	**481**	**527**	**609**	**724**	**853**	**949**	**1,050**	**1,156**	**1,255**	**1,354**	**1,452**	**1,543**	**1,603**	**1,638**	**1,655**	**1,629**	**1,553**
Maximum Pounds per Day																																									
Maximum Pounds per Hour [a]																																									
Maximum Pounds per Month																																									
Month with Maximum																																									
Maximum Pounds per Year																																									
Maximum Average Pounds per Hour [b]																																									
Year with Maximum																																									
Tons per Year																																									

Table 5.1A.47R Offsite Construction
Exhaust and Fugitive Emissions
Summary

Offsite SOx Emissions

	SOx Emissions by Month																																								
Construction Step	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**
Peaker and Tank Area and Stack 3&4 Demolition																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Block 1 Construction																																									
Total (lbs/month)	0.956	0.956	0.979	0.979	0.907	0.792	0.772																																		
Total (lbs/day)	0.042	0.042	0.043	0.043	0.039	0.034	0.034																																		
Block 2 Construction																																									
Total (lbs/month)	0.504	0.586	0.678	0.696	0.687	0.781	0.922	1.094	1.153	1.349	1.367	1.334	1.290	1.229	1.189	1.233	1.084	1.215	1.040	0.997	0.797	0.632	0.451	0.480	0.437																
Total (lbs/day)	0.022	0.025	0.029	0.030	0.030	0.034	0.040	0.048	0.050	0.059	0.059	0.058	0.056	0.053	0.052	0.054	0.047	0.053	0.045	0.043	0.035	0.027	0.020	0.021	0.019																
Units 1 & 2 Demolition																																									
Total (lbs/month)																													0.232	0.279	0.332	0.422	0.421	0.442	0.482	0.482	0.576	0.576	0.718	0.718	0.765
Total (lbs/day)																													0.010	0.012	0.014	0.018	0.018	0.019	0.021	0.021	0.025	0.025	0.031	0.031	0.033
Bldgs. 33 & 34 Construction																																									
Total (lbs/month)																																							0.133	0.248	0.249
Total (lbs/day)																																							0.006	0.011	0.011
Total Offsite SOx Emissions (Construction Vehicles)																																									
Pounds per Month	**1.459**	**1.542**	**1.656**	**1.675**	**1.594**	**1.573**	**1.695**	**1.094**	**1.153**	**1.349**	**1.367**	**1.334**	**1.290**	**1.229**	**1.189**	**1.233**	**1.084**	**1.215**	**1.040**	**0.997**	**0.797**	**0.632**	**0.451**	**0.480**	**0.437**	**0.000**	**0.000**	**0.000**	**0.232**	**0.279**	**0.332**	**0.422**	**0.421**	**0.442**	**0.482**	**0.482**	**0.576**	**0.576**	**0.850**	**0.966**	**1.014**
Pounds per Day	**0.063**	**0.067**	**0.072**	**0.073**	**0.069**	**0.068**	**0.074**	**0.048**	**0.050**	**0.059**	**0.059**	**0.058**	**0.056**	**0.053**	**0.052**	**0.054**	**0.047**	**0.053**	**0.045**	**0.043**	**0.035**	**0.027**	**0.020**	**0.021**	**0.019**	**0.000**	**0.000**	**0.000**	**0.010**	**0.012**	**0.014**	**0.018**	**0.018**	**0.019**	**0.021**	**0.021**	**0.025**	**0.025**	**0.037**	**0.042**	**0.044**
Yearly Maximums	**17**	**17**	**17**	**17**	**16**	**16**	**15**	**15**	**14**	**14**	**13**	**12**	**12**	**11**	**10**	**8**	**7**	**6**	**5**	**5**	**4**	**4**	**3**	**4**	**4**	**4**	**4**	**5**	**6**	**7**	**8**	**8**	**9**	**10**	**10**	**11**	**11**	**12**	**12**	**11**	**11**
Maximum Pounds per Day																																									
Maximum Pounds per Hour [a]																																									
Maximum Pounds per Month																																									
Month with Maximum																																									
Maximum Pounds per Year																																									
Maximum Average Pounds per Hour [b]																																									
Year with Maximum																																									
Tons per Year																																									

Offsite Exhaust PM_{10} Emissions

	Exhaust PM_{10} Emissions by Month																																								
Construction Step	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**
Peaker and Tank Area and Stack 3&4 Demolition																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Block 1 Construction																																									
Total (lbs/month)	83.96	83.96	86.15	86.15	84.76	73.81	71.98																																		
Total (lbs/day)	3.49	3.49	3.59	3.59	3.65	3.17	3.09																																		
Block 2 Construction																																									
Total (lbs/month)	36.09	43.75	49.73	50.08	55.26	58.84	65.43	71.57	80.99	100.84	101.39	100.35	98.96	98.27	97.25	98.64	92.64	96.82	91.24	89.74	69.30	55.53	36.91	36.82	35.45																
Total (lbs/day)	1.57	1.90	2.16	2.18	2.40	2.56	2.84	3.11	3.52	4.38	4.41	4.36	4.30	4.27	4.23	4.29	4.03	4.21	3.97	3.90	3.01	2.41	1.60	1.60	1.54																
Units 1 & 2 Demolition																																									
Total (lbs/month)																													10.52	12.00	17.47	23.17	24.14	26.33	27.05	27.05	29.94	29.94	34.28	34.28	35.73
Total (lbs/day)																													0.46	0.52	0.76	1.01	1.05	1.14	1.18	1.18	1.30	1.30	1.49	1.49	1.55
Bldgs. 33 & 34 Construction																																									
Total (lbs/month)																																							13.27	20.14	20.68
Total (lbs/day)																																							0.58	0.88	0.90
Total Offsite Exhaust PM_{10} Emissions (Construction Vehicles)																																									
Pounds per Month	**120.05**	**127.71**	**135.88**	**136.23**	**140.01**	**132.65**	**137.41**	**71.57**	**80.99**	**100.84**	**101.39**	**100.35**	**98.96**	**98.27**	**97.25**	**98.64**	**92.64**	**96.82**	**91.24**	**89.74**	**69.30**	**55.53**	**36.91**	**36.82**	**35.45**	**0.00**	**0.00**	**0.00**	**10.52**	**12.00**	**17.47**	**23.17**	**24.14**	**26.33**	**27.05**	**27.05**	**29.94**	**29.94**	**47.56**	**54.42**	**56.41**
Pounds per Day	**5.06**	**5.39**	**5.75**	**5.76**	**6.05**	**5.73**	**5.94**	**3.11**	**3.52**	**4.38**	**4.41**	**4.36**	**4.30**	**4.27**	**4.23**	**4.29**	**4.03**	**4.21**	**3.97**	**3.90**	**3.01**	**2.41**	**1.60**	**1.60**	**1.54**	**0.00**	**0.00**	**0.00**	**0.46**	**0.52**	**0.76**	**1.01**	**1.05**	**1.14**	**1.18**	**1.18**	**1.30**	**1.30**	**2.07**	**2.37**	**2.45**
Yearly Maximums	**1,385**	**1,364**	**1,335**	**1,296**	**1,258**	**1,211**	**1,175**	**1,129**	**1,147**	**1,135**	**1,090**	**1,026**	**962**	**899**	**800**	**703**	**604**	**522**	**438**	**364**	**297**	**252**	**223**	**213**	**203**	**198**	**228**	**275**	**330**	**375**	**422**	**464**	**498**	**533**	**567**	**602**	**632**	**655**	**674**	**672**	**631**
Maximum Pounds per Day																																									
Maximum Pounds per Hour [a]																																									
Maximum Pounds per Month																																									
Month with Maximum																																									
Maximum Pounds per Year																																									
Maximum Average Pounds per Hour [b]																																									
Year with Maximum																																									
Tons per Year																																									

Offsite Fugitive PM_{10} Emissions

	Fugitive PM_{10} Emissions by Month																																								
Construction Step	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**
Peaker and Tank Area and Stack 3&4 Demolition [c]																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Block 1 Construction																																									
Total (lbs/month)	0.35	0.35	0.35	0.35	0.35	0.35	0.35																																		
Total (lbs/day)	0.02	0.02	0.02	0.02	0.02	0.02	0.02																																		
Block 2 Construction																																									
Total (lbs/month)	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35																
Total (lbs/day)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02																
Units 1 & 2 Demolition [c]																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Bldgs. 33 & 34 Construction [c]																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Total Offsite Fugitive PM_{10} Emissions (Grading)																																									
Pounds per Month	**0.71**	**0.71**	**0.71**	**0.71**	**0.71**	**0.71**	**0.71**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Pounds per Day	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Yearly Maximums	**6.7**	**6.4**	**6.0**	**5.7**	**5.3**	**4.9**	**4.6**	**4.2**	**4.2**	**4.2**	**4.2**	**4.2**	**4.2**	**4.2**	**3.9**	**3.5**	**3.2**	**2.8**	**2.5**	**2.1**	**1.8**	**1.4**	**1.1**	**0.7**	**0.4**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Maximum Pounds per Day																																									
Maximum Pounds per Hour [a]																																									
Maximum Pounds per Month																																									
Month with Maximum																																									
Maximum Pounds per Year																																									
Maximum Average Pounds per Hour [b]																																									
Year with Maximum																																									
Tons per Year																																									

Table 5.1A.47R Offsite Construction Exhaust and Fugitive Emissions Summary

Total Offsite PM_{10} Emissions (Exhaust and Fugitive)

	Total PM_{10} Emissions by Month																																							
Parameter	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**
Pounds per Month	120.76	128.41	136.59	136.94	140.72	133.35	138.12	71.93	81.34	101.19	101.75	100.70	99.31	98.63	97.60	98.99	92.99	97.17	91.60	90.09	69.65	55.88	37.27	37.17	35.81	0.00	0.00	0.00	10.52	12.00	17.47	23.17	24.14	26.33	27.05	27.05	29.94	29.94	47.56	54.42	56.41
Pounds per Day	5.09	5.42	5.78	5.79	6.08	5.76	5.97	3.13	3.54	4.40	4.42	4.38	4.32	4.29	4.24	4.30	4.04	4.22	3.98	3.92	3.03	2.43	1.62	1.62	1.56	0.00	0.00	0.00	0.46	0.52	0.76	1.01	1.05	1.14	1.18	1.18	1.30	1.30	2.07	2.37	2.45
Yearly Maximums	1,392	1,370	1,341	1,302	1,264	1,216	1,180	1,133	1,151	1,140	1,094	1,030	966	903	804	707	608	525	440	366	299	253	224	214	204	198	228	275	330	375	422	464	498	533	567	602	632	655	674	672	631
Maximum Pounds per Day																																									
Maximum Pounds per Hour [a]																																									
Maximum Pounds per Month																																									
Month with Maximum																																									
Maximum Pounds per Year																																									
Maximum Average Pounds per Hour [b]																																									
Year with Maximum																																									
Tons per Year																																									

Offsite Exhaust $PM_{2.5}$ Emissions

	Exhaust $PM_{2.5}$ Emissions by Month																																							
Construction Step	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**
Peaker and Tank Area and Stack 3&4 Demolition																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Block 1 Construction																																									
Total (lbs/month)	24.16	24.16	24.77	24.77	23.84	20.78	20.27																																		
Total (lbs/day)	1.05	1.05	1.08	1.08	1.04	0.90	0.88																																		
Block 2 Construction																																									
Total (lbs/month)	11.47	13.68	15.65	15.89	16.79	18.34	20.88	22.96	25.36	30.94	31.19	30.73	30.12	29.53	29.02	29.63	27.29	29.12	26.68	26.07	20.34	16.25	11.03	11.24	10.62																
Total (lbs/day)	0.50	0.59	0.68	0.69	0.73	0.80	0.91	1.00	1.10	1.35	1.36	1.34	1.31	1.28	1.26	1.29	1.19	1.27	1.16	1.13	0.88	0.71	0.48	0.49	0.46																
Units 1 & 2 Demolition																																									
Total (lbs/month)																													3.93	4.59	6.13	7.87	8.07	8.68	9.11	9.11	10.39	10.39	12.30	12.30	12.94
Total (lbs/day)																													0.17	0.20	0.27	0.34	0.35	0.38	0.40	0.40	0.45	0.45	0.53	0.53	0.56
Bldgs. 33 & 34 Construction																																									
Total (lbs/month)																																							3.74	6.01	6.12
Total (lbs/day)																																							0.16	0.26	0.27
Total Offsite Exhaust $PM_{2.5}$ Emissions (Construction Vehicles)																																									
Pounds per Month	35.63	37.84	40.43	40.66	40.63	39.12	41.15	22.96	25.36	30.94	31.19	30.73	30.12	29.53	29.02	29.63	27.29	29.12	26.68	26.07	20.34	16.25	11.03	11.24	10.62	0.00	0.00	0.00	3.93	4.59	6.13	7.87	8.07	8.68	9.11	9.11	10.39	10.39	16.04	18.31	19.06
Pounds per Day	1.55	1.65	1.76	1.77	1.77	1.70	1.79	1.00	1.10	1.35	1.36	1.34	1.31	1.28	1.26	1.29	1.19	1.27	1.16	1.13	0.88	0.71	0.48	0.49	0.46	0.00	0.00	0.00	0.17	0.20	0.27	0.34	0.35	0.38	0.40	0.40	0.45	0.45	0.70	0.80	0.83
Yearly Maximums	417	411	403	391	380	367	357	343	346	341	326	306	286	267	237	208	179	155	131	110	92	80	72	70	68	68	78	94	113	128	143	158	169	181	192	203	212	218	223	221	208
Maximum Pounds per Day																																									
Maximum Pounds per Hour [a]																																									
Maximum Pounds per Month																																									
Month with Maximum																																									
Maximum Pounds per Year																																									
Maximum Average Pounds per Hour [b]																																									
Year with Maximum																																									
Tons per Year																																									

Offsite Fugitive $PM_{2.5}$ Emissions

	Fugitive $PM_{2.5}$ Emissions by Month																																							
Construction Step	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**
Peaker and Tank Area and Stack 3&4 Demolition [c]																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Block 1 Construction																																									
Total (lbs/month)	0.038	0.038	0.038	0.038	0.038	0.038	0.038																																		
Total (lbs/day)	0.002	0.002	0.002	0.002	0.002	0.002	0.002																																		
Block 2 Construction																																									
Total (lbs/month)	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038																
Total (lbs/day)	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002																
Units 1 & 2 Demolition [c]																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Bldgs. 33 & 34 Construction [c]																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Total Offsite Fugitive $PM_{2.5}$ Emissions (Grading)																																									
Pounds per Month	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Pounds per Day	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Yearly Maximums	0.73	0.69	0.65	0.61	0.57	0.53	0.50	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.42	0.38	0.34	0.31	0.27	0.23	0.19	0.15	0.11	0.08	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum Pounds per Day																																									
Maximum Pounds per Hour [a]																																									
Maximum Pounds per Month																																									
Month with Maximum																																									
Maximum Pounds per Year																																									
Maximum Average Pounds per Hour [b]																																									
Year with Maximum																																									
Tons per Year																																									

Table 5.1A.47R Offsite Construction Exhaust and Fugitive Emissions Summary

Total Offsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

	Total $PM_{2.5}$ Emissions by Month																																								
Parameter	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**
Pounds per Month	35.71	37.91	40.50	40.74	40.71	39.19	41.22	23.00	25.40	30.98	31.22	30.77	30.15	29.57	29.06	29.67	27.33	29.16	26.71	26.10	20.38	16.29	11.07	11.28	10.66	0.00	0.00	0.00	3.93	4.59	6.13	7.87	8.07	8.68	9.11	9.11	10.39	10.39	16.04	18.31	19.06
Pounds per Day	1.55	1.65	1.76	1.77	1.77	1.70	1.79	1.00	1.10	1.35	1.36	1.34	1.31	1.29	1.26	1.29	1.19	1.27	1.16	1.13	0.89	0.71	0.48	0.49	0.46	0.00	0.00	0.00	0.17	0.20	0.27	0.34	0.35	0.38	0.40	0.40	0.45	0.45	0.70	0.80	0.83
Yearly Maximums	417	412	403	392	381	368	358	343	346	341	326	306	287	267	238	209	179	156	131	110	92	80	72	70	68	68	78	94	113	128	143	158	169	181	192	203	212	218	223	221	208
Maximum Pounds per Day																																									
Maximum Pounds per Hour [a]																																									
Maximum Pounds per Month																																									
Month with Maximum																																									
Maximum Pounds per Year																																									
Maximum Average Pounds per Hour [b]																																									
Year with Maximum																																									
Tons per Year																																									

Offsite CO_2 Emissions

	CO_2 Emissions by Month																																								
Construction Step	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**
Peaker and Tank Area and Stack 3&4 Demolition																																									
Total (metric tons/month)																																									
Total (metric tons/day)																																									
Block 1 Construction																																									
Total (metric tons/month)	40.51	40.51	41.47	41.47	37.91	33.12	32.33																																		
Total (metric tons/day)	1.76	1.76	1.80	1.80	1.65	1.44	1.41																																		
Block 2 Construction																																									
Total (metric tons/month)	23.24	26.95	31.22	32.11	31.41	35.93	42.59	50.78	53.25	62.05	62.89	61.31	59.21	56.23	54.29	56.39	49.30	55.60	47.20	45.11	36.20	28.69	20.58	22.04	19.94																
Total (metric tons/day)	1.01	1.17	1.36	1.40	1.37	1.56	1.85	2.21	2.32	2.70	2.73	2.67	2.57	2.44	2.36	2.45	2.14	2.42	2.05	1.96	1.57	1.25	0.89	0.96	0.87																
Units 1 & 2 Demolition																													10.96	13.22	15.60	19.77	19.65	20.60	22.55	22.55	27.08	27.08	33.87	33.87	36.13
Total (metric tons/day)																													0.48	0.57	0.68	0.86	0.85	0.90	0.98	0.98	1.18	1.18	1.47	1.47	1.57
Bldgs. 33 & 34 Construction																																							0.21	3.53	3.23
Total (metric tons/day)																																							0.01	0.15	0.14
Total Offsite CO_2 Emissions (Construction Vehicles)																																									
Metric Tons per Month	**63.76**	**67.46**	**72.69**	**73.58**	**69.32**	**69.05**	**74.92**	**50.78**	**53.25**	**62.05**	**62.89**	**61.31**	**59.21**	**56.23**	**54.29**	**56.39**	**49.30**	**55.60**	**47.20**	**45.11**	**36.20**	**28.69**	**20.58**	**22.04**	**19.94**	**0.00**	**0.00**	**0.00**	**10.96**	**13.22**	**15.60**	**19.77**	**19.65**	**20.60**	**22.55**	**22.55**	**27.08**	**27.08**	**34.08**	**37.40**	**39.36**
Metric Tons per Day	**2.77**	**2.93**	**3.16**	**3.20**	**3.01**	**3.00**	**3.26**	**2.21**	**2.32**	**2.70**	**2.73**	**2.67**	**2.57**	**2.44**	**2.36**	**2.45**	**2.14**	**2.42**	**2.05**	**1.96**	**1.57**	**1.25**	**0.89**	**0.96**	**0.87**	**0.00**	**0.00**	**0.00**	**0.48**	**0.57**	**0.68**	**0.86**	**0.85**	**0.90**	**0.98**	**0.98**	**1.18**	**1.18**	**1.48**	**1.63**	**1.71**
Yearly Maximums	**781**	**777**	**765**	**747**	**730**	**710**	**696**	**669**	**663**	**646**	**612**	**570**	**531**	**492**	**435**	**381**	**325**	**286**	**244**	**212**	**187**	**170**	**162**	**164**	**165**	**172**	**199**	**233**	**271**	**299**	**329**	**358**	**379**	**398**	**416**	**432**	**439**	**440**	**434**	**418**	**396**
Maximum Metric Tons per Day																																									
Maximum Metric Tons per Hour [a]																																									
Maximum Metric Tons per Month																																									
Month with Maximum																																									
Maximum Metric Tons per Year																																									
Maximum Average Metric Tons per Hour [b]																																									
Year with Maximum																																									

Offsite N_2O Emissions

	N_2O Emissions by Month																																								
Construction Step	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**
Peaker and Tank Area and Stack 3&4 Demolition																																									
Total (metric tons/month)																																									
Total (metric tons/day)																																									
Block 1 Construction																																									
Total (metric tons/month)	0.0004092	0.0004092	0.0004199	0.0004199	0.0004148	0.0003612	0.0003522																																		
Total (metric tons/day)	0.0000178	0.0000178	0.0000183	0.0000183	0.0000180	0.0000157	0.0000153																																		
Block 2 Construction																																									
Total (metric tons/month)	0.0001724	0.0002097	0.0002381	0.0002394	0.0002664	0.0002823	0.0003124	0.0003416	0.0003885	0.0004857	0.0004882	0.0004836	0.0004774	0.0004753	0.0004710	0.0004771	0.0004497	0.0004682	0.0004436	0.0004375	0.0003373	0.0002704	0.0001791	0.0001781	0.0001720																
Total (metric tons/day)	0.0000075	0.0000091	0.0000104	0.0000104	0.0000116	0.0000123	0.0000136	0.0000149	0.0000169	0.0000211	0.0000212	0.0000210	0.0000208	0.0000207	0.0000205	0.0000207	0.0000196	0.0000204	0.0000193	0.0000190	0.0000147	0.0000118	0.0000078	0.0000077	0.0000075																
Units 1 & 2 Demolition																													0.0000492	0.0000558	0.0000826	0.0001107	0.0001156	0.0001264	0.0001294	0.0001294	0.0001427	0.0001427	0.0001625	0.0001625	0.0001692
Total (metric tons/day)																													0.0000021	0.0000024	0.0000036	0.0000048	0.0000050	0.0000055	0.0000056	0.0000056	0.0000062	0.0000062	0.0000071	0.0000071	0.0000074
Bldgs. 33 & 34 Construction																																							0.0000650	0.0000980	0.0001006
Total (metric tons/day)																																							0.0000028	0.0000043	0.0000044
Total Offsite N_2O Emissions (Construction Vehicles)																																									
Metric Tons per Month	**0.00058**	**0.00062**	**0.00066**	**0.00066**	**0.00068**	**0.00064**	**0.00066**	**0.00034**	**0.00039**	**0.00049**	**0.00049**	**0.00048**	**0.00048**	**0.00048**	**0.00047**	**0.00048**	**0.00045**	**0.00047**	**0.00044**	**0.00044**	**0.00034**	**0.00027**	**0.00018**	**0.00018**	**0.00017**	**0.00000**	**0.00000**	**0.00000**	**0.00005**	**0.00006**	**0.00008**	**0.00011**	**0.00012**	**0.00013**	**0.00013**	**0.00013**	**0.00014**	**0.00014**	**0.00023**	**0.00026**	**0.00027**
Metric Tons per Day	**0.00003**	**0.00003**	**0.00003**	**0.00003**	**0.00003**	**0.00003**	**0.00003**	**0.00001**	**0.00002**	**0.00002**	**0.00002**	**0.00002**	**0.00002**	**0.00002**	**0.00002**	**0.00002**	**0.00002**	**0.00002**	**0.00002**	**0.00002**	**0.00001**	**0.00001**	**0.00001**	**0.00001**	**0.00001**	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00001**	**0.00001**	**0.00001**	**0.00001**	**0.00001**	**0.00001**	**0.00001**	**0.00001**	**0.00001**
Yearly Maximums	**0.00669**	**0.00659**	**0.00645**	**0.00626**	**0.00608**	**0.00585**	**0.00567**	**0.00545**	**0.00555**	**0.00549**	**0.00528**	**0.00497**	**0.00466**	**0.00436**	**0.00388**	**0.00341**	**0.00294**	**0.00254**	**0.00212**	**0.00176**	**0.00144**	**0.00121**	**0.00107**	**0.00102**	**0.00097**	**0.00094**	**0.00108**	**0.00131**	**0.00157**	**0.00179**	**0.00202**	**0.00222**	**0.00238**	**0.00255**	**0.00271**	**0.00288**	**0.00303**	**0.00315**	**0.00324**	**0.00323**	**0.00304**
Maximum Metric Tons per Day																																									
Maximum Metric Tons per Hour [a]																																									
Maximum Metric Tons per Month																																									
Month with Maximum																																									
Maximum Metric Tons per Year																																									
Maximum Average Metric Tons per Hour [b]																																									
Year with Maximum																																									

Offsite CH_4 Emissions

	CH_4 Emissions by Month																																								
Construction Step	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**
Peaker and Tank Area and Stack 3&4 Demolition																																									
Total (metric tons/month)																																									
Total (metric tons/day)																																									
Block 1 Construction																																									
Total (metric tons/month)	0.0019076	0.0019076	0.0019591	0.0019591	0.0019805	0.0017226	0.0016796																																		
Total (metric tons/day)	0.0000829	0.0000829	0.0000852	0.0000852	0.0000861	0.0000749	0.0000730																																		
Block 2 Construction																																									
Total (metric tons/month)	0.0007121	0.0008856	0.0009961	0.0009907	0.0011668	0.0011970	0.0012825	0.0013403	0.0015910	0.0020558	0.0020584	0.0020535	0.0020470	0.0020782	0.0020803	0.0020868	0.0020242	0.0020438	0.0020177	0.0020112	0.0015299	0.0012312	0.0007928	0.0007650	0.0007585																
Total (metric tons/day)	0.0000310	0.0000385	0.0000433	0.0000431	0.0000507	0.0000520	0.0000558	0.0000583	0.0000692	0.0000894	0.0000895	0.0000893	0.0000890	0.0000904	0.0000904	0.0000907	0.0000880	0.0000889	0.0000877	0.0000874	0.0000665	0.0000535	0.0000345	0.0000333	0.0000330																
Units 1 & 2 Demolition																													0.0001392	0.0001463	0.0002752	0.0003854	0.0004174	0.0004690	0.0004588	0.0004588	0.0004729	0.0004729	0.0004940	0.0004940	0.0005011
Total (metric tons/day)																													0.0000061	0.0000064	0.0000120	0.0000168	0.0000181	0.0000204	0.0000199	0.0000199	0.0000206	0.0000206	0.0000215	0.0000215	0.0000218
Bldgs. 33 & 34 Construction																																							0.0003100	0.0004321	0.0004484
Total (metric tons/day)																																							0.0000135	0.0000188	0.0000195
Total Offsite CH_4 Emissions (Construction Vehicles)																																									
Metric Tons per Month	**0.00262**	**0.00279**	**0.00296**	**0.00295**	**0.00315**	**0.00292**	**0.00296**	**0.00134**	**0.00159**	**0.00206**	**0.00206**	**0.00205**	**0.00205**	**0.00208**	**0.00208**	**0.00209**	**0.00202**	**0.00204**	**0.00202**	**0.00201**	**0.00153**	**0.00123**	**0.00079**	**0.00076**	**0.00076**	**0.00000**	**0.00000**	**0.00000**	**0.00014**	**0.00015**	**0.00028**	**0.00039**	**0.00042**	**0.00047**	**0.00046**	**0.00046**	**0.00047**	**0.00047**	**0.00080**	**0.00093**	**0.00095**
Metric Tons per Day	**0.00011**	**0.00012**	**0.00013**	**0.00013**	**0.00014**	**0.00013**	**0.00013**	**0.00006**	**0.00007**	**0.00009**	**0.00009**	**0.00009**	**0.00009**	**0.00009**	**0.00009**	**0.00009**	**0.00009**	**0.00009**	**0.00009**	**0.00009**	**0.00007**	**0.00005**	**0.00003**	**0.00003**	**0.00003**	**0.00000**	**0.00000**	**0.00000**	**0.00001**	**0.00001**	**0.00001**	**0.00002**	**0.00002**	**0.00002**	**0.00002**	**0.00002**	**0.00002**	**0.00002**	**0.00003**	**0.00004**	**0.00004**
Yearly Maximums	**0.02945**	**0.02887**	**0.02816**	**0.02728**	**0.02642**	**0.02530**	**0.02442**	**0.02348**	**0.02415**	**0.02409**	**0.02326**	**0.02200**	**0.02071**	**0.01942**	**0.01734**	**0.01526**	**0.01317**	**0.01129**	**0.00939**	**0.00765**	**0.00602**	**0.00491**	**0.00415**	**0.00381**	**0.00351**	**0.00322**	**0.00370**	**0.00450**	**0.00543**	**0.00624**	**0.00705**	**0.00773**	**0.00830**	**0.00892**	**0.00949**	**0.01012**	**0.01077**	**0.01130**	**0.01178**	**0.01187**	**0.01111**
Maximum Metric Tons per Day																																									
Maximum Metric Tons per Hour [a]																																									
Maximum Metric Tons per Month																																									
Month with Maximum																																									
Maximum Metric Tons per Year																																									
Maximum Average Metric Tons per Hour [b]																																									
Year with Maximum																																									

Notes:
[a] The hours per day are per 'Manpower Schedule Huntington
[b] The hours per year are assumed to allow operation 24 hours p
[c] There are no offsite activities generating fugitive dust during P

Table 5.1A.47R Offsite Construction
Exhaust and Fugitive Emissions
Summary

Offsite CO Emissions

Construction Step	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition											
Total (lbs/month)											
Total (lbs/day)											
Block 1 Construction											
Total (lbs/month)											
Total (lbs/day)											
Block 2 Construction											
Total (lbs/month)											
Total (lbs/day)											
Units 1 & 2 Demolition											
Total (lbs/month)	112.95	112.95	112.95	112.95	112.95	112.95	94.05	91.49	60.81	53.14	41.12
Total (lbs/day)	4.91	4.91	4.91	4.91	4.91	4.91	4.09	3.98	2.64	2.31	1.79
Bldgs. 33 & 34 Construction											
Total (lbs/month)	64.92	65.86	61.31	68.68	69.26	75.93	83.71	70.38	88.15	84.82	0.37
Total (lbs/day)	2.82	2.86	2.67	2.99	3.01	3.30	3.64	3.06	3.83	3.69	0.02
Total Offsite CO Emissions (Construction Vehicles)											
Pounds per Month	**177.87**	**178.80**	**174.25**	**181.63**	**182.21**	**188.88**	**177.76**	**161.87**	**148.97**	**137.96**	**41.50**
Pounds per Day	**7.73**	**7.77**	**7.58**	**7.90**	**7.92**	**8.21**	**7.73**	**7.04**	**6.48**	**6.00**	**1.80**
Yearly Maximums											
Maximum Pounds per Day											
Maximum Pounds per Hour [a]											
Maximum Pounds per Month											
Month with Maximum											
Maximum Pounds per Year											
Maximum Average Pounds per Hour [b]											
Year with Maximum											
Tons per Year											

Offsite VOC Emissions

Construction Step	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition											
Total (lbs/month)											
Total (lbs/day)											
Block 1 Construction											
Total (lbs/month)											
Total (lbs/day)											
Block 2 Construction											
Total (lbs/month)											
Total (lbs/day)											
Units 1 & 2 Demolition											
Total (lbs/month)	10.10	10.10	10.10	10.10	10.10	10.10	7.38	7.14	5.44	4.71	4.09
Total (lbs/day)	0.44	0.44	0.44	0.44	0.44	0.44	0.32	0.31	0.24	0.20	0.18
Bldgs. 33 & 34 Construction											
Total (lbs/month)	2.22	2.70	1.47	1.20	1.14	1.24	1.36	1.15	1.43	1.38	0.07
Total (lbs/day)	0.10	0.12	0.06	0.05	0.05	0.05	0.06	0.05	0.06	0.06	0.00
Total Offsite VOC Emissions (Construction Vehicles)											
Pounds per Month	**12.33**	**12.80**	**11.58**	**11.31**	**11.24**	**11.34**	**8.74**	**8.29**	**6.87**	**6.09**	**4.15**
Pounds per Day	**0.54**	**0.56**	**0.50**	**0.49**	**0.49**	**0.49**	**0.38**	**0.36**	**0.30**	**0.26**	**0.18**
Yearly Maximums											
Maximum Pounds per Day											
Maximum Pounds per Hour [a]											
Maximum Pounds per Month											
Month with Maximum											
Maximum Pounds per Year											
Maximum Average Pounds per Hour [b]											
Year with Maximum											
Tons per Year											

Offsite NOx Emissions

Construction Step	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition											
Total (lbs/month)											
Total (lbs/day)											
Block 1 Construction											
Total (lbs/month)											
Total (lbs/day)											
Block 2 Construction											
Total (lbs/month)											
Total (lbs/day)											
Units 1 & 2 Demolition											
Total (lbs/month)	128.11	128.11	130.29	130.29	130.29	130.29	96.53	93.41	69.92	60.56	52.29
Total (lbs/day)	5.57	5.57	5.66	5.66	5.66	5.66	4.20	4.06	3.04	2.63	2.27
Bldgs. 33 & 34 Construction											
Total (lbs/month)	23.98	31.02	26.19	24.25	23.56	25.77	28.34	23.93	29.81	28.71	0.78
Total (lbs/day)	1.04	1.35	1.14	1.05	1.02	1.12	1.23	1.04	1.30	1.25	0.03
Total Offsite NOx Emissions (Construction Vehicles)											
Pounds per Month	**152.10**	**159.14**	**156.47**	**154.53**	**153.85**	**156.06**	**124.87**	**117.34**	**99.73**	**89.27**	**53.07**
Pounds per Day	**6.61**	**6.92**	**6.80**	**6.72**	**6.69**	**6.79**	**5.43**	**5.10**	**4.34**	**3.88**	**2.31**
Yearly Maximums											
Maximum Pounds per Day											
Maximum Pounds per Hour [a]											
Maximum Pounds per Month											
Month with Maximum											
Maximum Pounds per Year											
Maximum Average Pounds per Hour [b]											
Year with Maximum											
Tons per Year											

Table 5.1A.47R Offsite Construction Exhaust and Fugitive Emissions Summary

Offsite SOx Emissions

Construction Step	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition											
Total (lbs/month)											
Total (lbs/day)											
Block 1 Construction											
Total (lbs/month)											
Total (lbs/day)											
Block 2 Construction											
Total (lbs/month)											
Total (lbs/day)											
Units 1 & 2 Demolition											
Total (lbs/month)	0.812	0.812	0.812	0.812	0.812	0.812	0.616	0.597	0.435	0.377	0.321
Total (lbs/day)	0.035	0.035	0.035	0.035	0.035	0.035	0.027	0.026	0.019	0.016	0.014
Bldgs. 33 & 34 Construction											
Total (lbs/month)	0.280	0.311	0.227	0.228	0.225	0.246	0.271	0.229	0.286	0.275	0.004
Total (lbs/day)	0.012	0.014	0.010	0.010	0.010	0.011	0.012	0.010	0.012	0.012	0.000
Total Offsite SOx Emissions (Construction Vehicles)											
Pounds per Month	**1.092**	**1.123**	**1.039**	**1.040**	**1.037**	**1.059**	**0.888**	**0.826**	**0.721**	**0.652**	**0.325**
Pounds per Day	**0.047**	**0.049**	**0.045**	**0.045**	**0.045**	**0.046**	**0.039**	**0.036**	**0.031**	**0.028**	**0.014**
Yearly Maximums											
Maximum Pounds per Day											
Maximum Pounds per Hour [a]											
Maximum Pounds per Month											
Month with Maximum											
Maximum Pounds per Year											
Maximum Average Pounds per Hour [b]											
Year with Maximum											
Tons per Year											

Offsite Exhaust PM_{10} Emissions

Construction Step	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition											
Total (lbs/month)											
Total (lbs/day)											
Block 1 Construction											
Total (lbs/month)											
Total (lbs/day)											
Block 2 Construction											
Total (lbs/month)											
Total (lbs/day)											
Units 1 & 2 Demolition											
Total (lbs/month)	37.18	37.18	36.88	36.88	36.88	36.88	30.45	29.61	19.83	17.31	13.55
Total (lbs/day)	1.62	1.62	1.60	1.60	1.60	1.60	1.32	1.29	0.86	0.75	0.59
Bldgs. 33 & 34 Construction											
Total (lbs/month)	21.64	22.07	20.26	22.60	22.78	24.97	27.52	23.14	28.99	27.89	0.13
Total (lbs/day)	0.94	0.96	0.88	0.98	0.99	1.09	1.20	1.01	1.26	1.21	0.01
Total Offsite Exhaust PM_{10} Emissions (Construction Vehicles)											
Pounds per Month	**58.82**	**59.24**	**57.14**	**59.48**	**59.65**	**61.85**	**57.98**	**52.75**	**48.81**	**45.20**	**13.68**
Pounds per Day	**2.56**	**2.58**	**2.48**	**2.59**	**2.59**	**2.69**	**2.52**	**2.29**	**2.12**	**1.97**	**0.59**
Yearly Maximums											
Maximum Pounds per Day											
Maximum Pounds per Hour [a]											
Maximum Pounds per Month											
Month with Maximum											
Maximum Pounds per Year											
Maximum Average Pounds per Hour [b]											
Year with Maximum											
Tons per Year											

Offsite Fugitive PM_{10} Emissions

Construction Step	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition [c]											
Total (lbs/month)											
Total (lbs/day)											
Block 1 Construction											
Total (lbs/month)											
Total (lbs/day)											
Block 2 Construction											
Total (lbs/month)											
Total (lbs/day)											
Units 1 & 2 Demolition [c]											
Total (lbs/month)											
Total (lbs/day)											
Bldgs. 33 & 34 Construction [c]											
Total (lbs/month)											
Total (lbs/day)											
Total Offsite Fugitive PM_{10} Emissions (Grading)											
Pounds per Month	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Pounds per Day	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Yearly Maximums											
Maximum Pounds per Day											
Maximum Pounds per Hour [a]											
Maximum Pounds per Month											
Month with Maximum											
Maximum Pounds per Year											
Maximum Average Pounds per Hour [b]											
Year with Maximum											
Tons per Year											

Table 5.1A.47R Offsite Construction Exhaust and Fugitive Emissions Summary

Total Offsite PM_{10} Emissions (Exhaust and Fugitive)

Parameter	80	81	82	83	84	85	86	87	88	89	90
Pounds per Month	58.82	59.24	57.14	59.48	59.65	61.85	57.98	52.75	48.81	45.20	13.68
Pounds per Day	2.56	2.58	2.48	2.59	2.59	2.69	2.52	2.29	2.12	1.97	0.59
Yearly Maximums											
Maximum Pounds per Day											
Maximum Pounds per Hour [a]											
Maximum Pounds per Month											
Month with Maximum											
Maximum Pounds per Year											
Maximum Average Pounds per Hour [b]											
Year with Maximum											
Tons per Year											

Offsite Exhaust $PM_{2.5}$ Emissions

Construction Step	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition											
Total (lbs/month)											
Total (lbs/day)											
Block 1 Construction											
Total (lbs/month)											
Total (lbs/day)											
Block 2 Construction											
Total (lbs/month)											
Total (lbs/day)											
Units 1 & 2 Demolition											
Total (lbs/month)	13.58	13.58	13.31	13.31	13.31	13.31	10.63	10.32	7.14	6.22	5.04
Total (lbs/day)	0.59	0.59	0.58	0.58	0.58	0.58	0.46	0.45	0.31	0.27	0.22
Bldgs. 33 & 34 Construction											
Total (lbs/month)	6.55	6.86	5.87	6.38	6.40	7.01	7.73	6.50	8.14	7.83	0.06
Total (lbs/day)	0.28	0.30	0.26	0.28	0.28	0.30	0.34	0.28	0.35	0.34	0.00
Total Offsite Exhaust $PM_{2.5}$ Emissions (Construction Vehicles)											
Pounds per Month	20.13	20.43	19.17	19.68	19.70	20.32	18.36	16.82	15.28	14.05	5.09
Pounds per Day	0.88	0.89	0.83	0.86	0.86	0.88	0.80	0.73	0.66	0.61	0.22
Yearly Maximums											
Maximum Pounds per Day											
Maximum Pounds per Hour [a]											
Maximum Pounds per Month											
Month with Maximum											
Maximum Pounds per Year											
Maximum Average Pounds per Hour [b]											
Year with Maximum											
Tons per Year											

Offsite Fugitive $PM_{2.5}$ Emissions

Construction Step	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition [c]											
Total (lbs/month)											
Total (lbs/day)											
Block 1 Construction											
Total (lbs/month)											
Total (lbs/day)											
Block 2 Construction											
Total (lbs/month)											
Total (lbs/day)											
Units 1 & 2 Demolition [c]											
Total (lbs/month)											
Total (lbs/day)											
Bldgs. 33 & 34 Construction [c]											
Total (lbs/month)											
Total (lbs/day)											
Total Offsite Fugitive $PM_{2.5}$ Emissions (Grading)											
Pounds per Month	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Pounds per Day	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Yearly Maximums											
Maximum Pounds per Day											
Maximum Pounds per Hour [a]											
Maximum Pounds per Month											
Month with Maximum											
Maximum Pounds per Year											
Maximum Average Pounds per Hour [b]											
Year with Maximum											
Tons per Year											

Table 5.1A.47R Offsite Construction Exhaust and Fugitive Emissions Summary

Total Offsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

Parameter	80	81	82	83	84	85	86	87	88	89	90
Pounds per Month	20.13	20.43	19.17	19.68	19.70	20.32	18.36	16.82	15.28	14.05	5.09
Pounds per Day	0.88	0.89	0.83	0.86	0.86	0.88	0.80	0.73	0.66	0.61	0.22
Yearly Maximums											
Maximum Pounds per Day											
Maximum Pounds per Hour [a]											
Maximum Pounds per Month											
Month with Maximum											
Maximum Pounds per Year											
Maximum Average Pounds per Hour [b]											
Year with Maximum											
Tons per Year											

Offsite CO_2 Emissions

Construction Step	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition											
Total (metric tons/month)											
Total (metric tons/day)											
Block 1 Construction											
Total (metric tons/month)											
Total (metric tons/day)											
Block 2 Construction											
Total (metric tons/month)											
Total (metric tons/day)											
Units 1 & 2 Demolition											
Total (metric tons/month)	38.40	38.40	38.40	38.40	38.40	38.40	29.02	28.11	20.57	17.83	15.21
Total (metric tons/day)	1.67	1.67	1.67	1.67	1.67	1.67	1.26	1.22	0.89	0.78	0.66
Bldgs. 33 & 34 Construction											
Total (metric tons/month)	4.74	6.55	2.02	0.51	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Total (metric tons/day)	0.21	0.28	0.09	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total Offsite CO_2 Emissions (Construction Vehicles)											
Metric Tons per Month	43.13	44.94	40.42	38.91	38.61	38.61	29.23	28.32	20.78	18.04	15.42
Metric Tons per Day	1.88	1.95	1.76	1.69	1.68	1.68	1.27	1.23	0.90	0.78	0.67
Yearly Maximums											
Maximum Metric Tons per Day											
Maximum Metric Tons per Hour [a]											
Maximum Metric Tons per Month											
Month with Maximum											
Maximum Metric Tons per Year											
Maximum Average Metric Tons per Hour [b]											
Year with Maximum											

Offsite N_2O Emissions

Construction Step	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition											
Total (metric tons/month)											
Total (metric tons/day)											
Block 1 Construction											
Total (metric tons/month)											
Total (metric tons/day)											
Block 2 Construction											
Total (metric tons/month)											
Total (metric tons/day)											
Units 1 & 2 Demolition											
Total (metric tons/month)	0.0001758	0.0001758	0.0001758	0.0001758	0.0001758	0.0001758	0.0001457	0.0001417	0.0000945	0.0000825	0.0000644
Total (metric tons/day)	0.0000076	0.0000076	0.0000076	0.0000076	0.0000076	0.0000076	0.0000063	0.0000062	0.0000041	0.0000036	0.0000028
Bldgs. 33 & 34 Construction											
Total (metric tons/month)	0.0001051	0.0001068	0.0000989	0.0001106	0.0001115	0.0001222	0.0001347	0.0001133	0.0001419	0.0001365	0.0000006
Total (metric tons/day)	0.0000046	0.0000046	0.0000043	0.0000048	0.0000048	0.0000053	0.0000059	0.0000049	0.0000062	0.0000059	0.0000000
Total Offsite N_2O Emissions (Construction Vehicles)											
Metric Tons per Month	0.00028	0.00028	0.00027	0.00029	0.00029	0.00030	0.00028	0.00025	0.00024	0.00022	0.00006
Metric Tons per Day	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00000
Yearly Maximums											
Maximum Metric Tons per Day											
Maximum Metric Tons per Hour [a]											
Maximum Metric Tons per Month											
Month with Maximum											
Maximum Metric Tons per Year											
Maximum Average Metric Tons per Hour [b]											
Year with Maximum											

Offsite CH_4 Emissions

Construction Step	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition											
Total (metric tons/month)											
Total (metric tons/day)											
Block 1 Construction											
Total (metric tons/month)											
Total (metric tons/day)											
Block 2 Construction											
Total (metric tons/month)											
Total (metric tons/day)											
Units 1 & 2 Demolition											
Total (metric tons/month)	0.0005081	0.0005081	0.0005081	0.0005081	0.0005081	0.0005081	0.0004628	0.0004518	0.0002744	0.0002416	0.0001688
Total (metric tons/day)	0.0000221	0.0000221	0.0000221	0.0000221	0.0000221	0.0000221	0.0000201	0.0000196	0.0000119	0.0000105	0.0000073
Bldgs. 33 & 34 Construction											
Total (metric tons/month)	0.0004530	0.0004415	0.0004532	0.0005259	0.0005335	0.0005851	0.0006452	0.0005421	0.0006796	0.0006538	0.0000006
Total (metric tons/day)	0.0000197	0.0000192	0.0000197	0.0000229	0.0000232	0.0000254	0.0000281	0.0000236	0.0000295	0.0000284	0.0000000
Total Offsite CH_4 Emissions (Construction Vehicles)											
Metric Tons per Month	0.00096	0.00095	0.00096	0.00103	0.00104	0.00109	0.00111	0.00099	0.00095	0.00090	0.00017
Metric Tons per Day	0.00004	0.00004	0.00004	0.00004	0.00005	0.00005	0.00005	0.00004	0.00004	0.00004	0.00001
Yearly Maximums											
Maximum Metric Tons per Day											
Maximum Metric Tons per Hour [a]											
Maximum Metric Tons per Month											
Month with Maximum											
Maximum Metric Tons per Year											
Maximum Average Metric Tons per Hour [b]											
Year with Maximum											

Notes:

[a] The hours per day are per 'Manpower Schedule Huntington

[b] The hours per year are assumed to allow operation 24 hours p

[c] There are no offsite activities generating fugitive dust during P

Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Onsite and Offsite CO Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)	642.99	660.88	663.01	854.07	935.47	942.72	973.05	979.54	1,117.96	1,075.47	1,068.40	1,040.28	1,168.32	1,138.67	1,128.50																		
Total (lbs/day)	27.96	28.73	28.83	37.13	40.67	40.99	42.31	42.59	48.61	46.76	46.45	45.23	50.80	49.51	49.07																		
Block 1 Construction																																	
Total (lbs/month)																1,297.31	1,354.96	1,224.85	1,317.31	938.18	727.52	813.73	820.99	885.59	904.44	898.41	896.26	967.26	843.49	813.11	818.66	855.03	871.45
Total (lbs/day)																56.40	58.91	53.25	57.27	40.79	31.63	35.38	35.70	38.50	39.32	39.06	38.97	42.05	36.67	35.35	35.59	37.18	37.89
Block 2 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Total Onsite and Offsite CO Emissions (Construction Equipment and Vehicles)																																	
Pounds per Month	**642.99**	**660.88**	**663.01**	**854.07**	**935.47**	**942.72**	**973.05**	**979.54**	**1,117.96**	**1,075.47**	**1,068.40**	**1,040.28**	**1,168.32**	**1,138.67**	**1,128.50**	**1,297.31**	**1,354.96**	**1,224.85**	**1,317.31**	**938.18**	**727.52**	**813.73**	**820.99**	**885.59**	**904.44**	**898.41**	**896.26**	**967.26**	**843.49**	**813.11**	**818.66**	**855.03**	**871.45**
Pounds per Day	**27.96**	**28.73**	**28.83**	**37.13**	**40.67**	**40.99**	**42.31**	**42.59**	**48.61**	**46.76**	**46.45**	**45.23**	**50.80**	**49.51**	**49.07**	**56.40**	**58.91**	**53.25**	**57.27**	**40.79**	**31.63**	**35.38**	**35.70**	**38.50**	**39.32**	**39.06**	**38.97**	**42.05**	**36.67**	**35.35**	**35.59**	**37.18**	**37.89**
Yearly Maximums	**10,954**	**11,479**	**11,957**	**12,422**	**12,866**	**13,285**	**13,567**	**13,912**	**13,870**	**13,480**	**13,218**	**12,971**	**12,816**	**12,552**	**12,312**	**12,080**	**11,749**	**11,238**	**10,826**	**10,328**	**10,244**	**10,388**	**10,369**	**10,364**	**10,703**	**11,819**	**12,947**	**13,801**	**14,608**	**15,346**	**15,932**	**16,529**	**17,243**

Maximum Pounds per Day	**88.11**
Maximum Pounds per Hour [a]	**8.81**
Maximum Pounds per Month	**2,026.42**
Month with Maximum	**38**
Maximum Pounds per Year	**18,261**
Maximum Average Pounds per Hour [b]	**2.08**
Year with Maximum	**Months 36 - 47**
Tons per Year	**9.13**

Onsite and Offsite VOC Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)	133.56	134.08	145.58	180.13	190.54	190.77	194.42	194.77	215.47	201.84	201.90	206.17	229.67	225.12	224.90																		
Total (lbs/day)	5.81	5.83	6.33	7.83	8.28	8.29	8.45	8.47	9.37	8.78	8.78	8.96	9.99	9.79	9.78																		
Block 1 Construction																																	
Total (lbs/month)																236.31	237.62	208.85	235.47	166.17	127.60	153.83	155.06	169.34	169.72	157.86	158.90	174.03	155.61	142.66	142.66	142.95	141.98
Total (lbs/day)																10.27	10.33	9.08	10.24	7.22	5.55	6.69	6.74	7.36	7.38	6.86	6.91	7.57	6.77	6.20	6.20	6.22	6.17
Block 2 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Total Onsite and Offsite VOC Emissions (Construction Equipment and Vehicles)																																	
Pounds per Month	**133.56**	**134.08**	**145.58**	**180.13**	**190.54**	**190.77**	**194.42**	**194.77**	**215.47**	**201.84**	**201.90**	**206.17**	**229.67**	**225.12**	**224.90**	**236.31**	**237.62**	**208.85**	**235.47**	**166.17**	**127.60**	**153.83**	**155.06**	**169.34**	**169.72**	**157.86**	**158.90**	**174.03**	**155.61**	**142.66**	**142.66**	**142.95**	**141.98**
Pounds per Day	**5.81**	**5.83**	**6.33**	**7.83**	**8.28**	**8.29**	**8.45**	**8.47**	**9.37**	**8.78**	**8.78**	**8.96**	**9.99**	**9.79**	**9.78**	**10.27**	**10.33**	**9.08**	**10.24**	**7.22**	**5.55**	**6.69**	**6.74**	**7.36**	**7.38**	**6.86**	**6.91**	**7.57**	**6.77**	**6.20**	**6.20**	**6.22**	**6.17**
Yearly Maximums	**2,189**	**2,285**	**2,376**	**2,456**	**2,512**	**2,559**	**2,577**	**2,618**	**2,589**	**2,502**	**2,454**	**2,407**	**2,370**	**2,310**	**2,243**	**2,177**	**2,114**	**2,032**	**1,966**	**1,873**	**1,850**	**1,865**	**1,826**	**1,786**	**1,797**	**1,918**	**2,049**	**2,127**	**2,188**	**2,236**	**2,280**	**2,322**	**2,397**

Maximum Pounds per Day	**12.67**
Maximum Pounds per Hour [a]	**1.27**
Maximum Pounds per Month	**291.39**
Month with Maximum	**37**
Maximum Pounds per Year	**2,618**
Maximum Average Pounds per Hour [b]	**0.30**
Year with Maximum	**Months 8 - 19**
Tons per Year	**1.31**

Onsite and Offsite NOx Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)	897.45	902.00	1,025.80	1,291.88	1,385.50	1,387.61	1,451.33	1,456.20	1,601.69	1,334.39	1,337.52	1,366.54	1,520.76	1,448.19	1,447.30																		
Total (lbs/day)	39.02	39.22	44.60	56.17	60.24	60.33	63.10	63.31	69.64	58.02	58.15	59.41	66.12	62.96	62.93																		
Block 1 Construction																																	
Total (lbs/month)																1,447.99	1,456.59	1,289.53	1,519.50	1,158.11	913.29	1,029.53	1,048.68	1,165.27	1,166.90	1,085.71	1,104.03	1,233.53	1,128.52	1,026.01	1,024.64	1,020.39	999.60
Total (lbs/day)																62.96	63.33	56.07	66.07	50.35	39.71	44.76	45.59	50.66	50.73	47.20	48.00	53.63	49.07	44.61	44.55	44.36	43.46
Block 2 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Total Onsite and Offsite NOx Emissions (Construction Equipment and Vehicles)																																	
Pounds per Month	**897.45**	**902.00**	**1,025.80**	**1,291.88**	**1,385.50**	**1,387.61**	**1,451.33**	**1,456.20**	**1,601.69**	**1,334.39**	**1,337.52**	**1,366.54**	**1,520.76**	**1,448.19**	**1,447.30**	**1,447.99**	**1,456.59**	**1,289.53**	**1,519.50**	**1,158.11**	**913.29**	**1,029.53**	**1,048.68**	**1,165.27**	**1,166.90**	**1,085.71**	**1,104.03**	**1,233.53**	**1,128.52**	**1,026.01**	**1,024.64**	**1,020.39**	**999.60**
Pounds per Day	**39.02**	**39.22**	**44.60**	**56.17**	**60.24**	**60.33**	**63.10**	**63.31**	**69.64**	**58.02**	**58.15**	**59.41**	**66.12**	**62.96**	**62.93**	**62.96**	**63.33**	**56.07**	**66.07**	**50.35**	**39.71**	**44.76**	**45.59**	**50.66**	**50.73**	**47.20**	**48.00**	**53.63**	**49.07**	**44.61**	**44.55**	**44.36**	**43.46**
Yearly Maximums	**15,438**	**16,061**	**16,607**	**17,029**	**17,185**	**17,256**	**17,158**	**17,226**	**16,928**	**16,240**	**15,935**	**15,646**	**15,445**	**15,091**	**14,728**	**14,385**	**14,171**	**13,843**	**13,579**	**13,084**	**12,947**	**13,033**	**12,707**	**12,364**	**12,312**	**12,973**	**13,676**	**14,059**	**14,317**	**14,479**	**14,693**	**14,866**	**15,252**

Maximum Pounds per Day	**79.50**
Maximum Pounds per Hour [a]	**7.95**
Maximum Pounds per Month	**1,828.61**
Month with Maximum	**37**
Maximum Pounds per Year	**17,256**
Maximum Average Pounds per Hour [b]	**1.97**
Year with Maximum	**Months 6 - 17**
Tons per Year	**8.63**

Huntington Beach Energy Project
Construction Emission Estimates - All Project Stages
April 2014

Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Onsite and Offsite SOx Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)	1.2315	1.2777	1.4953	1.9408	2.1639	2.1831	2.3751	2.3984	2.6490	2.4762	2.4688	2.3946	2.6118	2.3841	2.3611																		
Total (lbs/day)	0.0535	0.0556	0.0650	0.0844	0.0941	0.0949	0.1033	0.1043	0.1152	0.1077	0.1073	0.1041	0.1136	0.1037	0.1027																		
Block 1 Construction																																	
Total (lbs/month)																2.3693	2.5171	2.3550	2.7489	2.1512	1.8074	2.1910	2.2565	2.5269	2.5729	2.5261	2.5687	2.8866	2.6891	2.5309	2.5396	2.6092	2.5919
Total (lbs/day)																0.1030	0.1094	0.1024	0.1195	0.0935	0.0786	0.0953	0.0981	0.1099	0.1119	0.1098	0.1117	0.1255	0.1169	0.1100	0.1104	0.1134	0.1127
Block 2 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Total Onsite and Offsite SOx Emissions (Construction Equipment and Vehicles)																																	
Pounds per Month	**1.2315**	**1.2777**	**1.4953**	**1.9408**	**2.1639**	**2.1831**	**2.3751**	**2.3984**	**2.6490**	**2.4762**	**2.4688**	**2.3946**	**2.6118**	**2.3841**	**2.3611**	**2.3693**	**2.5171**	**2.3550**	**2.7489**	**2.1512**	**1.8074**	**2.1910**	**2.2565**	**2.5269**	**2.5729**	**2.5261**	**2.5687**	**2.8866**	**2.6891**	**2.5309**	**2.5396**	**2.6092**	**2.5919**
Pounds per Day	**0.0535**	**0.0556**	**0.0650**	**0.0844**	**0.0941**	**0.0949**	**0.1033**	**0.1043**	**0.1152**	**0.1077**	**0.1073**	**0.1041**	**0.1136**	**0.1037**	**0.1027**	**0.1030**	**0.1094**	**0.1024**	**0.1195**	**0.0935**	**0.0786**	**0.0953**	**0.0981**	**0.1099**	**0.1119**	**0.1098**	**0.1117**	**0.1255**	**0.1169**	**0.1100**	**0.1104**	**0.1134**	**0.1127**
Yearly Maximums	**25**	**26**	**28**	**28**	**29**	**29**	**29**	**30**	**29**	**29**	**28**	**28**	**28**	**28**	**28**	**29**	**29**	**29**	**29**	**29**	**30**	**30**	**31**	**31**	**31**	**33**	**35**	**37**	**38**	**39**	**41**	**42**	**44**

Maximum Pounds per Day	**0.20**
Maximum Pounds per Hour [a]	**0.02**
Maximum Pounds per Month	**4.56**
Month with Maximum	**37**
Maximum Pounds per Year	**47**
Maximum Average Pounds per Hour [b]	**0.01**
Year with Maximum	**Months 37 - 48**
Tons per Year	**0.02**

Onsite and Offsite Exhaust PM_{10} Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)	57.72	61.64	64.06	80.49	89.85	91.45	99.69	101.21	110.90	97.38	95.96	92.46	99.70	91.36	89.17																		
Total (lbs/day)	2.51	2.68	2.79	3.50	3.91	3.98	4.33	4.40	4.82	4.23	4.17	4.02	4.33	3.97	3.88																		
Block 1 Construction																																	
Total (lbs/month)																100.02	113.49	101.04	112.01	90.95	75.71	79.02	81.22	90.91	95.29	100.23	100.24	111.76	107.39	105.96	107.20	115.44	118.64
Total (lbs/day)																4.32	4.89	4.30	4.77	3.75	3.09	3.21	3.21	3.57	3.76	3.88	3.78	4.16	3.93	3.87	3.93	4.33	4.59
Block 2 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Total Onsite and Offsite Exhaust PM_{10} Emissions (Construction Equipment and Vehicles)																																	
Pounds per Month	**57.72**	**61.64**	**64.06**	**80.49**	**89.85**	**91.45**	**99.69**	**101.21**	**110.90**	**97.38**	**95.96**	**92.46**	**99.70**	**91.36**	**89.17**	**100.02**	**113.49**	**101.04**	**112.01**	**90.95**	**75.71**	**79.02**	**81.22**	**90.91**	**95.29**	**100.23**	**100.24**	**111.76**	**107.39**	**105.96**	**107.20**	**115.44**	**118.64**
Pounds per Day	**2.51**	**2.68**	**2.79**	**3.50**	**3.91**	**3.98**	**4.33**	**4.40**	**4.82**	**4.23**	**4.17**	**4.02**	**4.33**	**3.97**	**3.88**	**4.32**	**4.89**	**4.30**	**4.77**	**3.75**	**3.09**	**3.21**	**3.21**	**3.57**	**3.76**	**3.88**	**3.78**	**4.16**	**3.93**	**3.87**	**3.93**	**4.33**	**4.59**
Yearly Maximums	**1,043**	**1,085**	**1,114**	**1,140**	**1,159**	**1,183**	**1,192**	**1,205**	**1,194**	**1,159**	**1,141**	**1,126**	**1,125**	**1,120**	**1,129**	**1,140**	**1,152**	**1,146**	**1,151**	**1,146**	**1,170**	**1,213**	**1,241**	**1,273**	**1,331**	**1,439**	**1,543**	**1,636**	**1,726**	**1,816**	**1,899**	**1,985**	**2,066**

Maximum Pounds per Day	**8.87**
Maximum Pounds per Hour [a]	**0.89**
Maximum Pounds per Month	**204.76**
Month with Maximum	**45**
Maximum Pounds per Year	**2,158**
Maximum Average Pounds per Hour [b]	**0.25**
Year with Maximum	**Months 36 - 47**
Tons per Year	**1.08**

Onsite and Offsite Fugitive PM_{10} Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)	68.21	68.21	84.16	84.16	84.16	84.16	84.16	84.16	84.16	84.16	84.16	68.21	68.21	68.21	68.21																		
Total (lbs/day)	2.97	2.97	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	2.97	2.97	2.97	2.97																		
Block 1 Construction																																	
Total (lbs/month)																135.74	135.74	108.04	108.04	107.81	80.11	72.13	72.13	72.13	72.13	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18
Total (lbs/day)																5.90	5.90	4.70	4.70	4.69	3.48	3.14	3.14	3.14	3.14	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44
Block 2 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Total Onsite and Offsite Fugitive PM_{10} Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																																	
Pounds per Month	**68.21**	**68.21**	**84.16**	**84.16**	**84.16**	**84.16**	**84.16**	**84.16**	**84.16**	**84.16**	**84.16**	**68.21**	**68.21**	**68.21**	**68.21**	**135.74**	**135.74**	**108.04**	**108.04**	**107.81**	**80.11**	**72.13**	**72.13**	**72.13**	**72.13**	**56.18**	**56.18**	**56.18**	**56.18**	**56.18**	**56.18**	**56.18**	**56.18**
Pounds per Day	**2.97**	**2.97**	**3.66**	**3.66**	**3.66**	**3.66**	**3.66**	**3.66**	**3.66**	**3.66**	**3.66**	**2.97**	**2.97**	**2.97**	**2.97**	**5.90**	**5.90**	**4.70**	**4.70**	**4.69**	**3.48**	**3.14**	**3.14**	**3.14**	**3.14**	**2.44**	**2.44**	**2.44**	**2.44**	**2.44**	**2.44**	**2.44**	**2.44**
Yearly Maximums	**962**	**962**	**962**	**946**	**998**	**1,049**	**1,073**	**1,097**	**1,121**	**1,117**	**1,105**	**1,093**	**1,097**	**1,100**	**1,088**	**1,076**	**997**	**917**	**865**	**814**	**762**	**738**	**722**	**706**	**758**	**878**	**1,013**	**1,121**	**1,221**	**1,321**	**1,393**	**1,458**	**1,522**

Maximum Pounds per Day	**8.34**
Maximum Pounds per Hour [a]	**0.83**
Maximum Pounds per Month	**191.81**
Month with Maximum	**37 or 38**
Maximum Pounds per Year	**1,602**
Maximum Average Pounds per Hour [b]	**0.18**
Year with Maximum	**Months 35- 46 or 36 - 47**
Tons per Year	**0.80**

Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite and Offsite PM_{10} Emissions (Exhaust and Fugitive)

Parameter	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Pounds per Month	125.92	129.85	148.22	164.65	174.00	175.60	183.85	185.36	195.06	181.53	180.12	160.67	167.91	159.56	157.37	235.76	249.23	209.08	220.05	198.76	155.82	151.15	153.35	163.04	167.42	156.42	156.42	167.94	163.58	162.14	163.38	171.62	174.83
Pounds per Day	5.47	5.65	6.44	7.16	7.57	7.63	7.99	8.06	8.48	7.89	7.83	6.99	7.30	6.94	6.84	10.22	10.80	9.00	9.46	8.44	6.57	6.35	6.35	6.71	6.90	6.32	6.23	6.60	6.37	6.31	6.38	6.77	7.03
Yearly Maximums	2,005	2,047	2,077	2,086	2,157	2,232	2,266	2,302	2,315	2,276	2,245	2,219	2,221	2,221	2,217	2,217	2,149	2,063	2,016	1,959	1,932	1,951	1,964	1,979	2,089	2,316	2,556	2,758	2,948	3,138	3,293	3,442	3,588

Maximum Pounds per Day	17.00
Maximum Pounds per Hour [a]	1.70
Maximum Pounds per Month	396.16
Month with Maximum	38
Maximum Pounds per Year	3,760
Maximum Average Pounds per Hour [b]	0.43
Year with Maximum	Months 36 - 47
Tons per Year	1.88

Onsite and Offsite Exhaust $PM_{2.5}$ Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)	57.55	58.70	60.58	73.81	79.47	79.95	83.65	84.16	92.54	79.40	79.09	80.92	89.15	85.17	84.56																		
Total (lbs/day)	2.50	2.55	2.63	3.21	3.46	3.48	3.64	3.66	4.02	3.45	3.44	3.52	3.88	3.70	3.68																		
Block 1 Construction																																	
Total (lbs/month)																99.15	102.99	89.18	97.89	71.48	55.19	57.17	58.22	63.74	64.96	64.25	64.70	71.02	65.67	62.73	63.03	65.16	65.52
Total (lbs/day)																4.31	4.48	3.88	4.26	3.11	2.40	2.49	2.53	2.77	2.82	2.79	2.81	3.09	2.86	2.73	2.74	2.83	2.85
Block 2 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	

Total Onsite and Offsite Exhaust $PM_{2.5}$ Emissions (Construction Equipment and Vehicles)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Pounds per Month	57.55	58.70	60.58	73.81	79.47	79.95	83.65	84.16	92.54	79.40	79.09	80.92	89.15	85.17	84.56	99.15	102.99	89.18	97.89	71.48	55.19	57.17	58.22	63.74	64.96	64.25	64.70	71.02	65.67	62.73	63.03	65.16	65.52
Pounds per Day	2.50	2.55	2.63	3.21	3.46	3.48	3.64	3.66	4.02	3.45	3.44	3.52	3.88	3.70	3.68	4.31	4.48	3.88	4.26	3.11	2.40	2.49	2.53	2.77	2.82	2.79	2.81	3.09	2.86	2.73	2.74	2.83	2.85
Yearly Maximums	910	941	968	992	1,017	1,041	1,050	1,064	1,052	1,014	992	971	954	930	909	889	861	823	797	762	756	766	763	760	778	842	906	951	992	1,028	1,059	1,089	1,127

Maximum Pounds per Day	5.62
Maximum Pounds per Hour [a]	0.56
Maximum Pounds per Month	129.22
Month with Maximum	37
Maximum Pounds per Year	1,181
Maximum Average Pounds per Hour [b]	0.13
Year with Maximum	Months 36 - 47
Tons per Year	0.59

Onsite and Offsite Fugitive $PM_{2.5}$ Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)	7.047	7.047	8.642	8.642	8.642	8.642	8.642	8.642	8.642	8.642	8.642	7.047	7.047	7.047	7.047																		
Total (lbs/day)	0.306	0.306	0.376	0.376	0.376	0.376	0.376	0.376	0.376	0.376	0.376	0.306	0.306	0.306	0.306																		
Block 1 Construction																																	
Total (lbs/month)																38.492	38.492	23.265	23.265	23.241	8.014	7.216	7.216	7.216	7.216	5.621	5.621	5.621	5.621	5.621	5.621	5.621	5.621
Total (lbs/day)																1.674	1.674	1.012	1.012	1.010	0.348	0.314	0.314	0.314	0.314	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244
Block 2 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	

Total Onsite and Offsite Fugitive $PM_{2.5}$ Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Pounds per Month	7.05	7.05	8.64	8.64	8.64	8.64	8.64	8.64	8.64	8.64	8.64	7.05	7.05	7.05	7.05	38.49	38.49	23.27	23.27	23.24	8.01	7.22	7.22	7.22	7.22	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62
Pounds per Day	0.31	0.31	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.31	0.31	0.31	0.31	1.67	1.67	1.01	1.01	1.01	0.35	0.31	0.31	0.31	0.31	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Yearly Maximums	99	99	99	97	127	157	172	186	201	200	199	197	198	198	196	195	162	129	111	94	76	74	72	71	88	125	164	187	209	232	239	245	252

Maximum Pounds per Day	1.92
Maximum Pounds per Hour [a]	0.19
Maximum Pounds per Month	44.10
Month with Maximum	37 or 38
Maximum Pounds per Year	260
Maximum Average Pounds per Hour [b]	0.03
Year with Maximum	Months 35 - 46 or 36 - 47
Tons per Year	0.13

Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite and Offsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

Parameter	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Pounds per Month	64.59	65.75	69.22	82.46	88.11	88.59	92.29	92.81	101.18	88.04	87.73	87.96	96.19	92.22	91.61	137.64	141.48	112.45	121.16	94.72	63.20	64.38	65.44	70.95	72.18	69.87	70.32	76.64	71.29	68.35	68.66	70.78	71.14
Pounds per Day	2.81	2.86	3.01	3.59	3.83	3.85	4.01	4.04	4.40	3.83	3.81	3.82	4.18	4.01	3.98	5.98	6.15	4.89	5.27	4.12	2.75	2.80	2.85	3.08	3.14	3.04	3.06	3.33	3.10	2.97	2.99	3.08	3.09
Yearly Maximums	1,009	1,040	1,067	1,089	1,144	1,198	1,222	1,250	1,252	1,214	1,191	1,168	1,151	1,127	1,105	1,084	1,023	953	909	856	832	840	835	830	866	967	1,070	1,138	1,201	1,260	1,298	1,334	1,379
Maximum Pounds per Day	7.54																																
Maximum Pounds per Hour [a]	0.754																																
Maximum Pounds per Month	173.32																																
Month with Maximum	37																																
Maximum Pounds per Year	1,441																																
Maximum Average Pounds per Hour [b]	0.165																																
Year with Maximum	Months 36 - 47																																
Tons per Year	0.72																																

Onsite and Offsite CO_2 Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (metric tons/month)	56.81	58.79	68.27	87.70	97.81	98.64	107.71	108.75	119.75	112.24	112.01	108.99	118.56	107.67	106.71																		
Total (metric tons/day)	2.47	2.56	2.97	3.81	4.25	4.29	4.68	4.73	5.21	4.88	4.87	4.74	5.15	4.68	4.64																		
Block 1 Construction																																	
Total (metric tons/month)																107.03	113.25	106.17	123.40	97.12	81.91	98.75	101.90	113.83	115.74	113.82	116.01	130.19	121.57	114.56	114.89	117.62	116.40
Total (metric tons/day)																4.65	4.92	4.62	5.37	4.22	3.56	4.29	4.43	4.95	5.03	4.95	5.04	5.66	5.29	4.98	5.00	5.11	5.06
Block 2 Construction																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Units 1 & 2 Demolition																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Total Onsite and Offsite CO_2 Emissions (Construction Equipment and Vehicles)																																	
Metric Tons per Month	56.81	58.79	68.27	87.70	97.81	98.64	107.71	108.75	119.75	112.24	112.01	108.99	118.56	107.67	106.71	107.03	113.25	106.17	123.40	97.12	81.91	98.75	101.90	113.83	115.74	113.82	116.01	130.19	121.57	114.56	114.89	117.62	116.40
Metric Tons per Day	2.47	2.56	2.97	3.81	4.25	4.29	4.68	4.73	5.21	4.88	4.87	4.74	5.15	4.68	4.64	4.65	4.92	4.62	5.37	4.22	3.56	4.29	4.43	4.95	5.03	4.95	5.04	5.66	5.29	4.98	5.00	5.11	5.06
Yearly Maximums	1,137	1,199	1,248	1,287	1,306	1,321	1,329	1,345	1,333	1,295	1,282	1,271	1,276	1,273	1,280	1,289	1,312	1,320	1,329	1,320	1,341	1,375	1,376	1,376	1,406	1,496	1,583	1,654	1,716	1,774	1,836	1,893	1,962
Maximum Metric Tons per Day	8.93																																
Maximum Metric Tons per Hour [a]	0.89																																
Maximum Metric Tons per Month	205.40																																
Month with Maximum	37																																
Maximum Metric Tons per Year	2,121																																
Maximum Average Metric Tons per Hour [b]	0.24																																
Year with Maximum	Months 37 - 48																																

Onsite and Offsite N_2O Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (metric tons/month)	0.00142731	0.00144630	0.00167892	0.00215756	0.00229894	0.00230664	0.00234111	0.00234813	0.00261681	0.00241743	0.00241015	0.00237268	0.00263595	0.00260146	0.00259073																			
Total (metric tons/day)	0.00006206	0.00006288	0.00007300	0.00009381	0.00009995	0.00010029	0.00010179	0.00010209	0.00011377	0.00010511	0.00010479	0.00010316	0.00011461	0.00011311	0.00011264																			
Block 1 Construction																																	
Total (metric tons/month)																0.00268688	0.00275265	0.00253014	0.00294058	0.00216399	0.00176740	0.00217166	0.00218087	0.00240772	0.00242918	0.00227152	0.00226999	0.00250477	0.00225229	0.00206494	0.00207118	0.00211221	0.00212977
Total (metric tons/day)																0.00011682	0.00011968	0.00011001	0.00012785	0.00009409	0.00007684	0.00009442	0.00009482	0.00010468	0.00010562	0.00009876	0.00009870	0.00010890	0.00009793	0.00008978	0.00009005	0.00009184	0.00009260
Block 2 Construction																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Units 1 & 2 Demolition																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Total Onsite and Offsite N_2O Emissions (Construction Equipment and Vehicles)																																	
Metric Tons per Month	0.001427	0.001446	0.001679	0.002158	0.002299	0.002307	0.002341	0.002348	0.002617	0.002417	0.002410	0.002373	0.002636	0.002601	0.002591	0.002687	0.002753	0.002530	0.002941	0.002164	0.001767	0.002172	0.002181	0.002408	0.002429	0.002272	0.002270	0.002505	0.002252	0.002065	0.002071	0.002112	0.002130
Metric Tons per Day	0.000062	0.000063	0.000073	0.000094	0.000100	0.000100	0.000102	0.000102	0.000114	0.000105	0.000105	0.000103	0.000115	0.000113	0.000113	0.000117	0.000120	0.000110	0.000128	0.000094	0.000077	0.000094	0.000095	0.000105	0.000106	0.000099	0.000099	0.000109	0.000098	0.000090	0.000090	0.000092	0.000093
Yearly Maximums	0.02582	0.02703	0.02819	0.02910	0.02963	0.03008	0.03030	0.03090	0.03072	0.02987	0.02962	0.02939	0.02943	0.02922	0.02889	0.02857	0.02839	0.02789	0.02742	0.02656	0.02650	0.02687	0.02643	0.02601	0.02636	0.02818	0.03016	0.03161	0.03287	0.03396	0.03516	0.03638	0.03788
Maximum Metric Tons per Day	0.000185																																
Maximum Metric Tons per Hour [a]	0.0000185																																
Maximum Metric Tons per Month	0.00426																																
Month with Maximum	38																																
Maximum Metric Tons per Year	0.04100																																
Maximum Average Metric Tons per Hour [b]	0.00000468																																
Year with Maximum	Months 37 - 48																																

Onsite and Offsite CH_4 Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (metric tons/month)	0.0031823	0.0032695	0.0037973	0.0049271	0.0052644	0.0052994	0.0053762	0.0054037	0.0060261	0.0055702	0.0055290	0.0053470	0.0059224	0.0058724	0.0058208																			
Total (metric tons/day)	0.0001384	0.0001422	0.0001651	0.0002142	0.0002289	0.0002304	0.0002337	0.0002349	0.0002620	0.0002422	0.0002404	0.0002325	0.0002575	0.0002553	0.0002531																			
Block 1 Construction																																	
Total (metric tons/month)																0.0059995	0.0063104	0.0058225	0.0067735	0.0051040	0.0042377	0.0051554	0.0051652	0.0057239	0.0058271	0.0055427	0.0055009	0.0060748	0.0055164	0.0051269	0.0051603	0.0053712	0.0054970
Total (metric tons/day)																0.0002608	0.0002744	0.0002532	0.0002945	0.0002219	0.0001842	0.0002241	0.0002246	0.0002489	0.0002534	0.0002410	0.0002392	0.0002641	0.0002398	0.0002229	0.0002244	0.0002335	0.0002390
Block 2 Construction																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Units 1 & 2 Demolition																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Total Onsite and Offsite CH_4 Emissions (Construction Equipment and Vehicles)																																	
Metric Tons per Month	0.00318	0.00327	0.00380	0.00493	0.00526	0.00530	0.00538	0.00540	0.00603	0.00557	0.00553	0.00535	0.00592	0.00587	0.00582	0.00600	0.00631	0.00582	0.00677	0.00510	0.00424	0.00516	0.00517	0.00572	0.00583	0.00554	0.00550	0.00607	0.00552	0.00513	0.00516	0.00537	0.00550
Metric Tons per Day	0.00014	0.00014	0.00017	0.00021	0.00023	0.00023	0.00023	0.00023	0.00026	0.00024	0.00024	0.00023	0.00026	0.00026	0.00025	0.00026	0.00027	0.00025	0.00029	0.00022	0.00018	0.00022	0.00022	0.00025	0.00025	0.00024	0.00024	0.00026	0.00024	0.00022	0.00022	0.00023	0.00024
Yearly Maximums	0.05899	0.06173	0.06434	0.06636	0.06743	0.06848	0.06900	0.07040	0.07010	0.06831	0.06789	0.06753	0.06791	0.06781	0.06748	0.06716	0.06724	0.06644	0.06575	0.06414	0.06440	0.06566	0.06515	0.06475	0.06619	0.07097	0.07617	0.08029	0.08401	0.08745	0.09109	0.09488	0.09906
Maximum Metric Tons per Day	0.000467																																
Maximum Metric Tons per Hour [a]	0.0000467																																
Maximum Metric Tons per Month	0.01074																																
Month with Maximum	38																																
Maximum Metric Tons per Year	0.10640																																
Maximum Average Metric Tons per Hour [b]	0.0000121																																
Year with Maximum	Months 37 - 48																																

Notes:
[a] The hours per day are per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 10 hours/day
[b] The hours per year are assumed to allow operation 24 hours per day, 7 days per week despite the actual construction schedule per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 8,760 hours/year

Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Onsite and Offsite CO Emissions

	CO Emissions by Month																																	
Construction Step	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Block 1 Construction																																	
Total (lbs/month)	794.24	816.24	703.61	671.11	648.80	664.38	585.18	594.61	550.90	547.49	689.46	681.61																					
Total (lbs/day)	34.53	35.49	30.59	29.18	28.21	28.89	25.44	25.85	23.95	23.80	29.98	29.64																					
Block 2 Construction																																	
Total (lbs/month)			520.95	1,349.65	1,377.62	1,085.41	1,188.69	987.35	847.74	868.37	879.59	939.02	922.11	956.89	1,105.29	1,069.35	898.84	894.57	893.62	890.71	819.68	686.09	648.15	631.09	626.82	551.44	501.41	357.02	544.01	539.74			
Total (lbs/day)			22.65	58.68	59.90	47.19	51.68	42.93	36.86	37.76	38.24	40.83	40.09	41.60	48.06	46.49	39.08	38.89	38.85	38.73	35.64	29.83	28.18	27.44	27.25	23.98	21.80	15.52	23.65	23.47			
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Total Onsite and Offsite CO Emissions (Construction Equipment and Vehicles)																																	
Pounds per Month	**794.24**	**816.24**	**1,224.55**	**2,020.76**	**2,026.42**	**1,749.79**	**1,773.87**	**1,581.96**	**1,398.64**	**1,415.86**	**1,569.06**	**1,620.63**	**922.11**	**956.89**	**1,105.29**	**1,069.35**	**898.84**	**894.57**	**893.62**	**890.71**	**819.68**	**686.09**	**648.15**	**631.09**	**626.82**	**551.44**	**501.41**	**357.02**	**544.01**	**539.74**	**0.00**	**0.00**	**0.00**
Pounds per Day	**34.53**	**35.49**	**53.24**	**87.86**	**88.11**	**76.08**	**77.12**	**68.78**	**60.81**	**61.56**	**68.22**	**70.46**	**40.09**	**41.60**	**48.06**	**46.49**	**39.08**	**38.89**	**38.85**	**38.73**	**35.64**	**29.83**	**28.18**	**27.44**	**27.25**	**23.98**	**21.80**	**15.52**	**23.65**	**23.47**	**0.00**	**0.00**	**0.00**
Yearly Maximums	**17,992**	**18,120**	**18,261**	**18,141**	**17,190**	**16,062**	**15,207**	**14,327**	**13,636**	**13,057**	**12,327**	**11,406**	**10,416**	**10,121**	**9,716**	**9,112**	**8,399**	**8,045**	**7,690**	**6,796**	**5,905**	**5,086**	**5,084**	**5,124**	**5,385**	**5,669**	**6,161**	**6,711**	**7,370**	**7,842**	**8,327**	**9,351**	**10,535**
Maximum Pounds per Day																																	
Maximum Pounds per Hour [a]																																	
Maximum Pounds per Month																																	
Month with Maximum																																	
Maximum Pounds per Year																																	
Maximum Average Pounds per Hour [b]																																	
Year with Maximum																																	
Tons per Year																																	

Onsite and Offsite VOC Emissions

	VOC Emissions by Month																																	
Construction Step	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Block 1 Construction																																	
Total (lbs/month)	115.17	115.60	96.24	86.85	83.51	83.10	56.66	56.85	50.22	48.71	81.07	80.91																					
Total (lbs/day)	5.01	5.03	4.18	3.78	3.63	3.61	2.46	2.47	2.18	2.12	3.52	3.52																					
Block 2 Construction																																	
Total (lbs/month)			83.18	204.54	205.21	154.11	178.21	146.37	136.71	135.55	137.01	150.76	141.67	141.07	165.84	154.39	126.05	125.34	124.18	123.50	100.74	82.61	76.40	73.57	72.86	71.58	70.09	45.19	74.62	73.91			
Total (lbs/day)			3.62	8.89	8.92	6.70	7.75	6.36	5.94	5.89	5.96	6.55	6.16	6.13	7.21	6.71	5.48	5.45	5.40	5.37	4.38	3.59	3.32	3.20	3.17	3.11	3.05	1.96	3.24	3.21			
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Total Onsite and Offsite VOC Emissions (Construction Equipment and Vehicles)																																	
Pounds per Month	**115.17**	**115.60**	**179.41**	**291.39**	**288.72**	**237.21**	**234.87**	**203.22**	**186.94**	**184.26**	**218.08**	**231.68**	**141.67**	**141.07**	**165.84**	**154.39**	**126.05**	**125.34**	**124.18**	**123.50**	**100.74**	**82.61**	**76.40**	**73.57**	**72.86**	**71.58**	**70.09**	**45.19**	**74.62**	**73.91**	**0.00**	**0.00**	**0.00**
Pounds per Day	**5.01**	**5.03**	**7.80**	**12.67**	**12.55**	**10.31**	**10.21**	**8.84**	**8.13**	**8.01**	**9.48**	**10.07**	**6.16**	**6.13**	**7.21**	**6.71**	**5.48**	**5.45**	**5.40**	**5.37**	**4.38**	**3.59**	**3.32**	**3.20**	**3.17**	**3.11**	**3.05**	**1.96**	**3.24**	**3.21**	**0.00**	**0.00**	**0.00**
Yearly Maximums	**2,487**	**2,513**	**2,539**	**2,525**	**2,388**	**2,225**	**2,113**	**2,003**	**1,923**	**1,837**	**1,735**	**1,593**	**1,435**	**1,367**	**1,297**	**1,201**	**1,092**	**1,041**	**989**	**865**	**742**	**641**	**665**	**697**	**751**	**807**	**877**	**949**	**1,036**	**1,094**	**1,154**	**1,288**	**1,438**
Maximum Pounds per Day																																	
Maximum Pounds per Hour [a]																																	
Maximum Pounds per Month																																	
Month with Maximum																																	
Maximum Pounds per Year																																	
Maximum Average Pounds per Hour [b]																																	
Year with Maximum																																	
Tons per Year																																	

Onsite and Offsite NOx Emissions

	NOx Emissions by Month																																	
Construction Step	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Block 1 Construction																																	
Total (lbs/month)	703.80	705.54	598.95	548.37	503.03	493.25	308.25	309.00	271.88	249.57	435.37	434.74																					
Total (lbs/day)	30.60	30.68	26.04	23.84	21.87	21.45	13.40	13.43	11.82	10.85	18.93	18.90																					
Block 2 Construction																																	
Total (lbs/month)			513.94	1,280.25	1,285.61	993.84	1,183.42	980.75	968.82	947.98	971.04	1,093.63	934.80	925.59	1,098.27	1,019.62	842.73	832.49	814.63	804.51	649.25	526.90	509.44	468.49	410.53	404.60	391.76	237.93	402.46	393.22			
Total (lbs/day)			22.35	55.66	55.90	43.21	51.45	42.64	42.12	41.22	42.22	47.55	40.64	40.24	47.75	44.33	36.64	36.20	35.42	34.98	28.23	22.91	22.15	20.37	17.85	17.59	17.03	10.34	17.50	17.10			
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Total Onsite and Offsite NOx Emissions (Construction Equipment and Vehicles)																																	
Pounds per Month	**703.80**	**705.54**	**1,112.89**	**1,828.61**	**1,788.65**	**1,487.09**	**1,491.67**	**1,289.74**	**1,240.70**	**1,197.56**	**1,406.41**	**1,528.37**	**934.80**	**925.59**	**1,098.27**	**1,019.62**	**842.73**	**832.49**	**814.63**	**804.51**	**649.25**	**526.90**	**509.44**	**468.49**	**410.53**	**404.60**	**391.76**	**237.93**	**402.46**	**393.22**	**0.00**	**0.00**	**0.00**
Pounds per Day	**30.60**	**30.68**	**48.39**	**79.50**	**77.77**	**64.66**	**64.86**	**56.08**	**53.94**	**52.07**	**61.15**	**66.45**	**40.64**	**40.24**	**47.75**	**44.33**	**36.64**	**36.20**	**35.42**	**34.98**	**28.23**	**22.91**	**22.15**	**20.37**	**17.85**	**17.59**	**17.03**	**10.34**	**17.50**	**17.10**	**0.00**	**0.00**	**0.00**
Yearly Maximums	**15,781**	**16,012**	**16,232**	**16,217**	**15,408**	**14,463**	**13,808**	**13,131**	**12,646**	**12,054**	**11,384**	**10,487**	**9,427**	**8,902**	**8,381**	**7,675**	**6,893**	**6,453**	**6,014**	**5,199**	**4,395**	**3,745**	**3,898**	**4,079**	**4,407**	**4,713**	**5,088**	**5,476**	**5,962**	**6,283**	**6,631**	**7,372**	**8,234**
Maximum Pounds per Day																																	
Maximum Pounds per Hour [a]																																	
Maximum Pounds per Month																																	
Month with Maximum																																	
Maximum Pounds per Year																																	
Maximum Average Pounds per Hour [b]																																	
Year with Maximum																																	
Tons per Year																																	

Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Onsite and Offsite SOx Emissions

	SOx Emissions by Month																																	
Construction Step	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**
Peaker and Tank Area and Stack 3&4 Demolition																																		
Total (lbs/month)																																		
Total (lbs/day)																																		
Block 1 Construction																																		
Total (lbs/month)	2.2098	2.2635	2.0600	2.0274	1.8486	1.8548	1.4991	1.5221	1.4531	1.3811	1.5924	1.5733																						
Total (lbs/day)	0.0961	0.0984	0.0896	0.0881	0.0804	0.0806	0.0652	0.0662	0.0632	0.0600	0.0692	0.0684																						
Block 2 Construction																																		
Total (lbs/month)			1.1157	2.5349	2.6155	2.3151	2.7509	2.4446	2.4575	2.4465	2.5410	2.8588	2.8535	2.9084	3.4587	3.2994	2.8583	2.8146	2.7537	2.7136	2.4036	2.0616	2.1140	1.9392	1.8955	1.6962	1.5315	0.9943	1.3502	1.3065				
Total (lbs/day)			0.0485	0.1102	0.1137	0.1007	0.1196	0.1063	0.1068	0.1064	0.1105	0.1243	0.1241	0.1265	0.1504	0.1435	0.1243	0.1224	0.1197	0.1180	0.1045	0.0896	0.0919	0.0843	0.0824	0.0737	0.0666	0.0432	0.0587	0.0568				
Units 1 & 2 Demolition																																		
Total (lbs/month)																																		
Total (lbs/day)																																		
Bldgs. 33 & 34 Construction																																		
Total (lbs/month)																																		
Total (lbs/day)																																		
Total Onsite and Offsite SOx Emissions (Construction Equipment and Vehicles)																																		
Pounds per Month	**2.2098**	**2.2635**	**3.1757**	**4.5623**	**4.4642**	**4.1698**	**4.2501**	**3.9668**	**3.9106**	**3.8276**	**4.1335**	**4.4321**	**2.8535**	**2.9084**	**3.4587**	**3.2994**	**2.8583**	**2.8146**	**2.7537**	**2.7136**	**2.4036**	**2.0616**	**2.1140**	**1.9392**	**1.8955**	**1.6962**	**1.5315**	**0.9943**	**1.3502**	**1.3065**	**0.0000**	**0.0000**	**0.0000**
Pounds per Day	**0.0961**	**0.0984**	**0.1381**	**0.1984**	**0.1941**	**0.1813**	**0.1848**	**0.1725**	**0.1700**	**0.1664**	**0.1797**	**0.1927**	**0.1241**	**0.1265**	**0.1504**	**0.1435**	**0.1243**	**0.1224**	**0.1197**	**0.1180**	**0.1045**	**0.0896**	**0.0919**	**0.0843**	**0.0824**	**0.0737**	**0.0666**	**0.0432**	**0.0587**	**0.0568**	**0.0000**	**0.0000**	**0.0000**
Yearly Maximums	**45**	**46**	**47**	**47**	**46**	**44**	**43**	**41**	**40**	**38**	**37**	**35**	**32**	**31**	**30**	**28**	**26**	**24**	**23**	**20**	**17**	**15**	**15**	**15**	**15**	**15**	**16**	**17**	**19**	**20**	**21**	**24**	**27**
Maximum Pounds per Day																																		
Maximum Pounds per Hour [a]																																		
Maximum Pounds per Month																																		
Month with Maximum																																		
Maximum Pounds per Year																																		
Maximum Average Pounds per Hour [b]																																		
Year with Maximum																																		
Tons per Year																																		

Onsite and Offsite Exhaust PM_{10} Emissions

	Exhaust PM_{10} Emissions by Month																																	
Construction Step	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**
Peaker and Tank Area and Stack 3&4 Demolition																																		
Total (lbs/month)																																		
Total (lbs/day)																																		
Block 1 Construction																																		
Total (lbs/month)	107.18	112.29	105.95	106.45	100.14	103.46	97.11	99.30	96.99	95.60	96.40	94.57																						
Total (lbs/day)	4.16	4.39	4.14	4.16	4.13	4.34	4.06	4.16	4.06	4.12	4.16	4.08																						
Block 2 Construction																																		
Total (lbs/month)			43.27	96.61	104.21	90.43	104.40	98.42	91.73	96.87	100.45	110.19	107.82	117.18	142.68	140.41	132.14	130.75	130.07	129.04	124.77	113.03	113.79	108.22	104.55	84.11	70.34	46.63	55.83	54.46				
Total (lbs/day)			1.88	4.20	4.53	3.93	4.54	4.28	3.99	4.21	4.37	4.79	4.69	5.09	6.20	6.10	5.75	5.68	5.66	5.61	5.42	4.91	4.95	4.71	4.55	3.66	3.06	2.03	2.43	2.37				
Units 1 & 2 Demolition																																		
Total (lbs/month)																																		
Total (lbs/day)																																		
Bldgs. 33 & 34 Construction																																		
Total (lbs/month)																																		
Total (lbs/day)																																		
Total Onsite and Offsite Exhaust PM_{10} Emissions (Construction Equipment and Vehicles)																																		
Pounds per Month	**107.18**	**112.29**	**149.23**	**203.06**	**204.35**	**193.89**	**201.51**	**197.72**	**188.72**	**192.47**	**196.85**	**204.76**	**107.82**	**117.18**	**142.68**	**140.41**	**132.14**	**130.75**	**130.07**	**129.04**	**124.77**	**113.03**	**113.79**	**108.22**	**104.55**	**84.11**	**70.34**	**46.63**	**55.83**	**54.46**	**0.00**	**0.00**	**0.00**
Pounds per Day	**4.16**	**4.39**	**6.02**	**8.36**	**8.66**	**8.27**	**8.60**	**8.44**	**8.05**	**8.33**	**8.52**	**8.87**	**4.69**	**5.09**	**6.20**	**6.10**	**5.75**	**5.68**	**5.66**	**5.61**	**5.42**	**4.91**	**4.95**	**4.71**	**4.55**	**3.66**	**3.06**	**2.03**	**2.43**	**2.37**	**0.00**	**0.00**	**0.00**
Yearly Maximums	**2,152**	**2,153**	**2,158**	**2,151**	**2,088**	**2,016**	**1,953**	**1,882**	**1,813**	**1,749**	**1,670**	**1,586**	**1,490**	**1,487**	**1,454**	**1,381**	**1,287**	**1,211**	**1,135**	**1,005**	**876**	**751**	**678**	**606**	**550**	**499**	**472**	**462**	**474**	**476**	**483**	**544**	**628**
Maximum Pounds per Day																																		
Maximum Pounds per Hour [a]																																		
Maximum Pounds per Month																																		
Month with Maximum																																		
Maximum Pounds per Year																																		
Maximum Average Pounds per Hour [b]																																		
Year with Maximum																																		
Tons per Year																																		

Onsite and Offsite Fugitive PM_{10} Emissions

	Fugitive PM_{10} Emissions by Month																																	
Construction Step	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**
Peaker and Tank Area and Stack 3&4 Demolition																																		
Total (lbs/month)																																		
Total (lbs/day)																																		
Block 1 Construction																																		
Total (lbs/month)	56.18	56.18	56.18	56.18	56.18	56.18	48.21	48.21	48.21	48.21	48.43	48.43																						
Total (lbs/day)	2.44	2.44	2.44	2.44	2.44	2.44	2.10	2.10	2.10	2.10	2.11	2.11																						
Block 2 Construction																																		
Total (lbs/month)			68.05	135.63	135.63	107.92	107.92	107.81	80.11	72.13	72.13	72.13	72.13	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18	48.21	48.32	48.32				
Total (lbs/day)			2.96	5.90	5.90	4.69	4.69	4.69	3.48	3.14	3.14	3.14	3.14	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.10	2.10	2.10				
Units 1 & 2 Demolition																																		
Total (lbs/month)																																		
Total (lbs/day)																																		
Bldgs. 33 & 34 Construction																																		
Total (lbs/month)																																		
Total (lbs/day)																																		
Total Onsite and Offsite Fugitive PM_{10} Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																																		
Pounds per Month	**56.18**	**56.18**	**124.23**	**191.81**	**191.81**	**164.11**	**156.13**	**156.02**	**128.32**	**120.34**	**120.57**	**120.57**	**72.13**	**56.18**	**56.18**	**56.18**	**56.18**	**56.18**	**56.18**	**56.18**	**56.18**	**56.18**	**56.18**	**56.18**	**56.18**	**56.18**	**56.18**	**48.21**	**48.32**	**48.32**	**0.00**	**0.00**	**0.00**
Pounds per Day	**2.44**	**2.44**	**5.40**	**8.34**	**8.34**	**7.14**	**6.79**	**6.78**	**5.58**	**5.23**	**5.24**	**5.24**	**3.14**	**2.44**	**2.44**	**2.44**	**2.44**	**2.44**	**2.44**	**2.44**	**2.44**	**2.44**	**2.44**	**2.44**	**2.44**	**2.44**	**2.44**	**2.10**	**2.10**	**2.10**	**0.00**	**0.00**	**0.00**
Yearly Maximums	**1,586**	**1,602**	**1,602**	**1,534**	**1,399**	**1,263**	**1,155**	**1,055**	**955**	**883**	**819**	**755**	**690**	**674**	**674**	**674**	**666**	**658**	**650**	**594**	**538**	**482**	**479**	**476**	**473**	**470**	**467**	**464**	**469**	**474**	**479**	**532**	**617**
Maximum Pounds per Day																																		
Maximum Pounds per Hour [a]																																		
Maximum Pounds per Month																																		
Month with Maximum																																		
Maximum Pounds per Year																																		
Maximum Average Pounds per Hour [b]																																		
Year with Maximum																																		
Tons per Year																																		

Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite and Offsite PM_{10} Emissions (Exhaust and Fugitive)

	Total PM_{10} Emissions by Month																																
Parameter	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
Pounds per Month	163.37	168.48	273.45	394.87	396.16	358.00	357.64	353.74	317.04	312.81	317.42	325.33	179.96	173.36	198.87	196.60	188.32	186.93	186.25	185.22	180.95	169.22	169.98	164.41	160.73	140.30	126.52	94.84	104.15	102.78	0.00	0.00	0.00
Pounds per Day	6.61	6.83	11.43	16.70	17.00	15.41	15.39	15.22	13.62	13.56	13.77	14.11	7.82	7.54	8.65	8.55	8.19	8.13	8.10	8.05	7.87	7.36	7.39	7.15	6.99	6.10	5.50	4.12	4.53	4.47	0.00	0.00	0.00
Yearly Maximums	3,738	3,755	3,760	3,685	3,487	3,279	3,108	2,937	2,768	2,632	2,488	2,341	2,180	2,161	2,128	2,055	1,954	1,869	1,785	1,599	1,414	1,233	1,157	1,082	1,023	969	939	926	943	950	961	1,076	1,245
Maximum Pounds per Day																																	
Maximum Pounds per Hour [a]																																	
Maximum Pounds per Month																																	
Month with Maximum																																	
Maximum Pounds per Year																																	
Maximum Average Pounds per Hour [b]																																	
Year with Maximum																																	
Tons per Year																																	

Onsite and Offsite Exhaust $PM_{2.5}$ Emissions

	Exhaust $PM_{2.5}$ Emissions by Month																																
Construction Step	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Block 1 Construction																																	
Total (lbs/month)	53.79	55.22	48.47	45.81	42.98	43.64	37.30	37.91	35.60	34.67	43.36	42.85																					
Total (lbs/day)	2.34	2.40	2.11	1.99	1.87	1.90	1.62	1.65	1.55	1.51	1.89	1.86																					
Block 2 Construction																																	
Total (lbs/month)			33.24	83.40	85.59	65.78	74.29	64.31	57.50	58.37	59.92	65.61	59.18	61.53	72.77	70.19	62.50	61.89	61.30	60.79	55.74	47.67	46.08	43.64	40.86	35.14	31.05	20.74	30.24	29.62			
Total (lbs/day)			1.45	3.63	3.72	2.86	3.23	2.80	2.50	2.54	2.61	2.85	2.57	2.68	3.16	3.05	2.72	2.69	2.67	2.64	2.42	2.07	2.00	1.90	1.78	1.53	1.35	0.90	1.31	1.29			
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Total Onsite and Offsite Exhaust $PM_{2.5}$ Emissions (Construction Equipment and Vehicles)																																	
Pounds per Month	53.79	55.22	81.71	129.22	128.57	109.42	111.60	102.22	93.10	93.04	103.28	108.46	59.18	61.53	72.77	70.19	62.50	61.89	61.30	60.79	55.74	47.67	46.08	43.64	40.86	35.14	31.05	20.74	30.24	29.62	0.00	0.00	0.00
Pounds per Day	2.34	2.40	3.55	5.62	5.59	4.76	4.85	4.44	4.05	4.05	4.49	4.72	2.57	2.68	3.16	3.05	2.72	2.69	2.67	2.64	2.42	2.07	2.00	1.90	1.78	1.53	1.35	0.90	1.31	1.29	0.00	0.00	0.00
Yearly Maximums	1,170	1,175	1,181	1,172	1,113	1,047	1,000	949	908	871	825	768	703	685	659	617	567	535	503	442	381	325	311	299	297	294	300	311	331	341	353	394	447
Maximum Pounds per Day																																	
Maximum Pounds per Hour [a]																																	
Maximum Pounds per Month																																	
Month with Maximum																																	
Maximum Pounds per Year																																	
Maximum Average Pounds per Hour [b]																																	
Year with Maximum																																	
Tons per Year																																	

Onsite and Offsite Fugitive $PM_{2.5}$ Emissions

	Fugitive $PM_{2.5}$ Emissions by Month																																
Construction Step	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Block 1 Construction																																	
Total (lbs/month)	5.621	5.621	5.621	5.621	5.621	5.621	4.824	4.824	4.824	4.824	4.848	4.848																					
Total (lbs/day)	0.244	0.244	0.244	0.244	0.244	0.244	0.210	0.210	0.210	0.210	0.211	0.211																					
Block 2 Construction																																	
Total (lbs/month)			19.265	38.480	38.480	23.253	23.253	23.241	8.014	7.216	7.216	7.216	7.216	5.621	5.621	5.621	5.621	5.621	5.621	5.621	5.621	5.621	5.621	5.621	5.621	5.621	5.621	4.824	4.836	4.836			
Total (lbs/day)			0.838	1.673	1.673	1.011	1.011	1.010	0.348	0.314	0.314	0.314	0.314	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.210	0.210	0.210			
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Total Onsite and Offsite Fugitive $PM_{2.5}$ Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																																	
Pounds per Month	5.62	5.62	24.89	44.10	44.10	28.87	28.08	28.06	12.84	12.04	12.06	12.06	7.22	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62	4.82	4.84	4.84	0.00	0.00	0.00
Pounds per Day	0.24	0.24	1.08	1.92	1.92	1.26	1.22	1.22	0.56	0.52	0.52	0.52	0.31	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.21	0.21	0.21	0.00	0.00	0.00
Yearly Maximums	258	260	260	241	202	164	140	118	96	88	82	75	69	67	67	67	67	66	65	59	54	48	49	49	49	50	50	51	52	53	54	60	69
Maximum Pounds per Day																																	
Maximum Pounds per Hour [a]																																	
Maximum Pounds per Month																																	
Month with Maximum																																	
Maximum Pounds per Year																																	
Maximum Average Pounds per Hour [b]																																	
Year with Maximum																																	
Tons per Year																																	

Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite and Offsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

	Total $PM_{2.5}$ Emissions by Month																														
Parameter	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**
Pounds per Month	59.42	60.84	106.60	173.32	172.68	138.29	139.67	130.28	105.94	105.08	115.34	120.52	66.40	67.15	78.39	75.81	68.12	67.51	66.92	66.41	61.37	53.29	51.70	49.26	46.48	40.76	36.67	25.56	35.07	34.46	0.00	0.00	0.00
Pounds per Day	2.58	2.65	4.63	7.54	7.51	6.01	6.07	5.66	4.61	4.57	5.01	5.24	2.89	2.92	3.41	3.30	2.96	2.94	2.91	2.89	2.67	2.32	2.25	2.14	2.02	1.77	1.59	1.11	1.52	1.50	0.00	0.00	0.00
Yearly Maximums	1,428	1,435	1,441	1,413	1,316	1,211	1,140	1,067	1,004	959	907	844	772	752	726	684	634	601	568	501	435	373	360	348	346	343	350	362	382	394	407	454	516
Maximum Pounds per Day																																	
Maximum Pounds per Hour [a]																																	
Maximum Pounds per Month																																	
Month with Maximum																																	
Maximum Pounds per Year																																	
Maximum Average Pounds per Hour [b]																																	
Year with Maximum																																	
Tons per Year																																	

Onsite and Offsite CO_2 Emissions

	CO_2 Emissions by Month																																
Construction Step	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Block 1 Construction																																	
Total (metric tons/month)	99.43	101.66	92.56	91.01	82.48	82.45	66.86	67.81	64.77	61.21	70.84	70.04																					
Total (metric tons/day)	4.32	4.42	4.02	3.96	3.59	3.58	2.91	2.95	2.82	2.66	3.08	3.05																					
Block 2 Construction																																	
Total (metric tons/month)			51.72	114.39	118.02	105.52	124.74	111.44	111.98	111.19	115.71	130.13	130.56	132.85	157.16	150.24	130.72	128.62	125.64	123.70	110.29	94.69	97.51	89.12	87.02	78.11	70.60	46.89	62.76	60.66			
Total (metric tons/day)			2.25	4.97	5.13	4.59	5.42	4.85	4.87	4.83	5.03	5.66	5.68	5.78	6.83	6.53	5.68	5.59	5.46	5.38	4.80	4.12	4.24	3.87	3.78	3.40	3.07	2.04	2.73	2.64			
Units 1 & 2 Demolition																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Total Onsite and Offsite CO_2 Emissions (Construction Equipment and Vehicles)																																	
Metric Tons per Month	99.43	101.66	144.28	205.40	200.50	187.98	191.59	179.25	176.75	172.40	186.55	200.17	130.56	132.85	157.16	150.24	130.72	128.62	125.64	123.70	110.29	94.69	97.51	89.12	87.02	78.11	70.60	46.89	62.76	60.66	0.00	0.00	0.00
Metric Tons per Day	4.32	4.42	6.27	8.93	8.72	8.17	8.33	7.79	7.68	7.50	8.11	8.70	5.68	5.78	6.83	6.53	5.68	5.59	5.46	5.38	4.80	4.12	4.24	3.87	3.78	3.40	3.07	2.04	2.73	2.64	0.00	0.00	0.00
Yearly Maximums	2,046	2,077	2,108	2,121	2,066	1,996	1,937	1,871	1,815	1,749	1,671	1,582	1,471	1,428	1,373	1,286	1,183	1,115	1,047	921	798	687	678	668	684	706	747	796	863	915	973	1,091	1,225
Maximum Metric Tons per Day																																	
Maximum Metric Tons per Hour [a]																																	
Maximum Metric Tons per Month																																	
Month with Maximum																																	
Maximum Metric Tons per Year																																	
Maximum Average Metric Tons per Hour [b]																																	
Year with Maximum																																	

Onsite and Offsite N_2O Emissions

	N_2O Emissions by Month																																
Construction Step	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Block 1 Construction																																	
Total (metric tons/month)	0.00173587	0.00176091	0.00154598	0.00147897	0.00145147	0.00146858	0.00107355	0.00108428	0.00100666	0.00100154	0.00131506	0.00130612																					
Total (metric tons/day)	0.00007547	0.00007656	0.00006722	0.00006430	0.00006311	0.00006385	0.00004668	0.00004714	0.00004377	0.00004355	0.00005718	0.00005679																					
Block 2 Construction																																	
Total (metric tons/month)			0.00120803	0.00276929	0.00280627	0.00225249	0.00268471	0.00226572	0.00225818	0.00228514	0.00230099	0.00252851	0.00236030	0.00240598	0.00289909	0.00270409	0.00224228	0.00223614	0.00223404	0.00222969	0.00184091	0.00159680	0.00152674	0.00150219	0.00149605	0.00139590	0.00132895	0.00084271	0.00120851	0.00120237			
Total (metric tons/day)			0.00005252	0.00012040	0.00012201	0.00009793	0.00011673	0.00009851	0.00009818	0.00009935	0.00010004	0.00010994	0.00010262	0.00010465	0.00012605	0.00011757	0.00009749	0.00009722	0.00009713	0.00009694	0.00008004	0.00006943	0.00006638	0.00006531	0.00006505	0.00006069	0.00005778	0.00003664	0.00005254	0.00005228			
Units 1 & 2 Demolition																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Total Onsite and Offsite N_2O Emissions (Construction Equipment and Vehicles)																																	
Metric Tons per Month	0.001736	0.001761	0.002754	0.004248	0.004258	0.003721	0.003758	0.003350	0.003265	0.003287	0.003616	0.003835	0.002360	0.002407	0.002899	0.002704	0.002242	0.002236	0.002234	0.002230	0.001841	0.001597	0.001527	0.001502	0.001496	0.001396	0.001329	0.000843	0.001209	0.001202	0.000000	0.000000	0.000000
Metric Tons per Day	0.000075	0.000077	0.000120	0.000185	0.000185	0.000162	0.000163	0.000146	0.000142	0.000143	0.000157	0.000167	0.000103	0.000105	0.000126	0.000118	0.000097	0.000097	0.000097	0.000097	0.000080	0.000069	0.000066	0.000065	0.000065	0.000061	0.000058	0.000037	0.000053	0.000052	0.000000	0.000000	0.000000
Yearly Maximums	0.03959	0.04021	0.04086	0.04100	0.03946	0.03744	0.03596	0.03444	0.03331	0.03189	0.03020	0.02811	0.02578	0.02492	0.02390	0.02233	0.02047	0.01944	0.01840	0.01617	0.01394	0.01210	0.01244	0.01286	0.01370	0.01458	0.01582	0.01714	0.01875	0.02000	0.02126	0.02373	0.02647
Maximum Metric Tons per Day																																	
Maximum Metric Tons per Hour [a]																																	
Maximum Metric Tons per Month																																	
Month with Maximum																																	
Maximum Metric Tons per Year																																	
Maximum Average Metric Tons per Hour [b]																																	
Year with Maximum																																	

Onsite and Offsite CH_4 Emissions

	CH_4 Emissions by Month																																
Construction Step	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Block 1 Construction																																	
Total (metric tons/month)	0.0046439	0.0047642	0.0043021	0.0042079	0.0041653	0.0042705	0.0033894	0.0034410	0.0032678	0.0032892	0.0038504	0.0038074																					
Total (metric tons/day)	0.0002019	0.0002071	0.0001870	0.0001830	0.0001811	0.0001857	0.0001474	0.0001496	0.0001421	0.0001430	0.0001674	0.0001655																					
Block 2 Construction																																	
Total (metric tons/month)			0.0028622	0.0064000	0.0065731	0.0053516	0.0064061	0.0055186	0.0054936	0.0056695	0.0056997	0.0062257	0.0058431	0.0060935	0.0074392	0.0070014	0.0059766	0.0059700	0.0060013	0.0060033	0.0051289	0.0045828	0.0044050	0.0043790	0.0043724	0.0038911	0.0035924	0.0022730	0.0030634	0.0030569			
Total (metric tons/day)			0.0001244	0.0002783	0.0002858	0.0002327	0.0002785	0.0002399	0.0002389	0.0002465	0.0002478	0.0002707	0.0002540	0.0002649	0.0003234	0.0003044	0.0002599	0.0002596	0.0002609	0.0002610	0.0002230	0.0001993	0.0001915	0.0001904	0.0001901	0.0001692	0.0001562	0.0000988	0.0001332	0.0001329			
Units 1 & 2 Demolition																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Total Onsite and Offsite CH_4 Emissions (Construction Equipment and Vehicles)																																	
Metric Tons per Month	0.00464	0.00476	0.00716	0.01061	0.01074	0.00962	0.00980	0.00896	0.00876	0.00896	0.00955	0.01003	0.00584	0.00609	0.00744	0.00700	0.00598	0.00597	0.00600	0.00600	0.00513	0.00458	0.00441	0.00438	0.00437	0.00389	0.00359	0.00227	0.00306	0.00306	0.00000	0.00000	0.00000
Metric Tons per Day	0.00020	0.00021	0.00031	0.00046	0.00047	0.00042	0.00043	0.00039	0.00038	0.00039	0.00042	0.00044	0.00025	0.00026	0.00032	0.00030	0.00026	0.00026	0.00026	0.00026	0.00022	0.00020	0.00019	0.00019	0.00019	0.00017	0.00016	0.00010	0.00013	0.00013	0.00000	0.00000	0.00000
Yearly Maximums	0.10360	0.10480	0.10613	0.10640	0.10280	0.09803	0.09438	0.09059	0.08763	0.08400	0.07962	0.07448	0.06882	0.06735	0.06515	0.06130	0.05658	0.05366	0.05075	0.04475	0.03874	0.03362	0.03338	0.03334	0.03428	0.03534	0.03749	0.04000	0.04337	0.04595	0.04855	0.05421	0.06063
Maximum Metric Tons per Day																																	
Maximum Metric Tons per Hour [a]																																	
Maximum Metric Tons per Month																																	
Month with Maximum																																	
Maximum Metric Tons per Year																																	
Maximum Average Metric Tons per Hour [b]																																	
Year with Maximum																																	

Notes:
[a] The hours per day are per 'Manpower Schedule Huntington Be
[b] The hours per year are assumed to allow operation 24 hours per

Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Onsite and Offsite CO Emissions

Construction Step	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 1 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 2 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Units 1 & 2 Demolition																								
Total (lbs/month)	683.95	688.08	892.52	910.81	1,043.79	1,050.86	1,016.20	1,016.20	1,024.47	1,024.47	1,036.88	1,036.88	1,041.01	1,045.15	1,045.15	1,045.15	1,131.84	1,131.84	1,131.84	1,112.94	1,110.38	1,079.70	1,072.03	1,060.01
Total (lbs/day)	29.74	29.92	38.81	39.60	45.38	45.69	44.18	44.18	44.54	44.54	45.08	45.08	45.26	45.44	45.44	45.44	49.21	49.21	49.21	48.39	48.28	46.94	46.61	46.09
Bldgs. 33 & 34 Construction																								
Total (lbs/month)											147.13	482.16	483.86	522.42	467.25	462.70	155.63	156.22	162.88	170.66	157.33	175.11	171.77	87.33
Total (lbs/day)											6.40	20.96	21.04	22.71	20.32	20.12	6.77	6.79	7.08	7.42	6.84	7.61	7.47	3.80
Total Onsite and Offsite CO Emissions (Construction Equipment and Vehicles)																								
Pounds per Month	**683.95**	**688.08**	**892.52**	**910.81**	**1,043.79**	**1,050.86**	**1,016.20**	**1,016.20**	**1,024.47**	**1,024.47**	**1,184.01**	**1,519.04**	**1,524.87**	**1,567.56**	**1,512.39**	**1,507.84**	**1,287.47**	**1,288.06**	**1,294.72**	**1,283.60**	**1,267.71**	**1,254.81**	**1,243.80**	**1,147.34**
Pounds per Day	**29.74**	**29.92**	**38.81**	**39.60**	**45.38**	**45.69**	**44.18**	**44.18**	**44.54**	**44.54**	**51.48**	**66.05**	**66.30**	**68.15**	**65.76**	**65.56**	**55.98**	**56.00**	**56.29**	**55.81**	**55.12**	**54.56**	**54.08**	**49.88**
Yearly Maximums	**12,054**	**12,895**	**13,775**	**14,395**	**14,992**	**15,235**	**15,473**	**15,751**	**16,019**	**16,262**	**16,492**	**16,552**	**16,180**											
Maximum Pounds per Day																								
Maximum Pounds per Hour [a]																								
Maximum Pounds per Month																								
Month with Maximum																								
Maximum Pounds per Year																								
Maximum Average Pounds per Hour [b]																								
Year with Maximum																								
Tons per Year																								

Onsite and Offsite VOC Emissions

Construction Step	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 1 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 2 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Units 1 & 2 Demolition																								
Total (lbs/month)	107.25	107.92	127.64	128.53	142.08	142.19	132.33	132.33	133.67	133.67	135.69	135.69	136.36	137.04	137.04	137.04	154.63	154.63	154.63	151.91	151.66	149.96	149.24	148.62
Total (lbs/day)	4.66	4.69	5.55	5.59	6.18	6.18	5.75	5.75	5.81	5.81	5.90	5.90	5.93	5.96	5.96	5.96	6.72	6.72	6.72	6.60	6.59	6.52	6.49	6.46
Bldgs. 33 & 34 Construction																								
Total (lbs/month)											14.37	57.30	57.25	67.61	61.18	59.96	18.11	18.04	18.15	18.27	18.06	18.34	18.28	16.97
Total (lbs/day)											0.62	2.49	2.49	2.94	2.66	2.61	0.79	0.78	0.79	0.79	0.79	0.80	0.79	0.74
Total Onsite and Offsite VOC Emissions (Construction Equipment and Vehicles)																								
Pounds per Month	**107.25**	**107.92**	**127.64**	**128.53**	**142.08**	**142.19**	**132.33**	**132.33**	**133.67**	**133.67**	**150.06**	**193.00**	**193.62**	**204.65**	**198.21**	**196.99**	**172.74**	**172.67**	**172.78**	**170.17**	**169.72**	**168.30**	**167.52**	**165.59**
Pounds per Day	**4.66**	**4.69**	**5.55**	**5.59**	**6.18**	**6.18**	**5.75**	**5.75**	**5.81**	**5.81**	**6.52**	**8.39**	**8.42**	**8.90**	**8.62**	**8.56**	**7.51**	**7.51**	**7.51**	**7.40**	**7.38**	**7.32**	**7.28**	**7.20**
Yearly Maximums	**1,631**	**1,717**	**1,814**	**1,884**	**1,953**	**1,983**	**2,014**	**2,054**	**2,092**	**2,128**	**2,163**	**2,180**	**2,153**											
Maximum Pounds per Day																								
Maximum Pounds per Hour [a]																								
Maximum Pounds per Month																								
Month with Maximum																								
Maximum Pounds per Year																								
Maximum Average Pounds per Hour [b]																								
Year with Maximum																								
Tons per Year																								

Onsite and Offsite NOx Emissions

Construction Step	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 1 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 2 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Units 1 & 2 Demolition																								
Total (lbs/month)	679.80	689.77	797.17	716.29	779.63	780.22	723.30	723.30	741.38	741.38	768.51	768.51	777.56	786.60	786.60	712.80	809.51	809.51	809.51	775.75	772.63	749.14	739.78	731.51
Total (lbs/day)	29.56	29.99	34.66	31.14	33.90	33.92	31.45	31.45	32.23	32.23	33.41	33.41	33.81	34.20	34.20	30.99	35.20	35.20	35.20	33.73	33.59	32.57	32.16	31.80
Bldgs. 33 & 34 Construction																								
Total (lbs/month)											93.74	362.67	361.66	433.45	393.10	356.75	122.03	121.35	123.55	126.13	121.72	127.60	126.49	98.57
Total (lbs/day)											4.08	15.77	15.72	18.85	17.09	15.51	5.31	5.28	5.37	5.48	5.29	5.55	5.50	4.29
Total Onsite and Offsite NOx Emissions (Construction Equipment and Vehicles)																								
Pounds per Month	**679.80**	**689.77**	**797.17**	**716.29**	**779.63**	**780.22**	**723.30**	**723.30**	**741.38**	**741.38**	**862.26**	**1,131.18**	**1,139.22**	**1,220.05**	**1,179.70**	**1,069.54**	**931.54**	**930.86**	**933.06**	**901.88**	**894.35**	**876.74**	**866.28**	**830.08**
Pounds per Day	**29.56**	**29.99**	**34.66**	**31.14**	**33.90**	**33.92**	**31.45**	**31.45**	**32.23**	**32.23**	**37.49**	**49.18**	**49.53**	**53.05**	**51.29**	**46.50**	**40.50**	**40.47**	**40.57**	**39.21**	**38.88**	**38.12**	**37.66**	**36.09**
Yearly Maximums	**9,366**	**9,825**	**10,355**	**10,738**	**11,091**	**11,243**	**11,394**	**11,603**	**11,782**	**11,935**	**12,070**	**12,074**	**11,773**											
Maximum Pounds per Day																								
Maximum Pounds per Hour [a]																								
Maximum Pounds per Month																								
Month with Maximum																								
Maximum Pounds per Year																								
Maximum Average Pounds per Hour [b]																								
Year with Maximum																								
Tons per Year																								

Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Onsite and Offsite SOx Emissions

Construction Step	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 1 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 2 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Units 1 & 2 Demolition																								
Total (lbs/month)	1.8701	1.9173	2.3041	2.3939	2.6239	2.6452	2.5084	2.5084	2.6027	2.6027	2.7442	2.7442	2.7913	2.8385	2.8385	2.8385	3.0940	3.0940	3.0940	2.8982	2.8789	2.7170	2.6592	2.6024
Total (lbs/day)	0.0813	0.0834	0.1002	0.1041	0.1141	0.1150	0.1091	0.1091	0.1132	0.1132	0.1193	0.1193	0.1214	0.1234	0.1234	0.1234	0.1345	0.1345	0.1345	0.1260	0.1252	0.1181	0.1156	0.1131
Bldgs. 33 & 34 Construction																								
Total (lbs/month)											0.3071	0.9476	0.9484	1.1567	1.0943	1.0107	0.4882	0.4854	0.5068	0.5317	0.4890	0.5460	0.5353	0.2647
Total (lbs/day)											0.0134	0.0412	0.0412	0.0503	0.0476	0.0439	0.0212	0.0211	0.0220	0.0231	0.0213	0.0237	0.0233	0.0115
Total Onsite and Offsite SOx Emissions (Construction Equipment and Vehicles)																								
Pounds per Month	**1.8701**	**1.9173**	**2.3041**	**2.3939**	**2.6239**	**2.6452**	**2.5084**	**2.5084**	**2.6027**	**2.6027**	**3.0513**	**3.6918**	**3.7398**	**3.9952**	**3.9328**	**3.8492**	**3.5821**	**3.5794**	**3.6008**	**3.4299**	**3.3679**	**3.2630**	**3.1944**	**2.8671**
Pounds per Day	**0.0813**	**0.0834**	**0.1002**	**0.1041**	**0.1141**	**0.1150**	**0.1091**	**0.1091**	**0.1132**	**0.1132**	**0.1327**	**0.1605**	**0.1626**	**0.1737**	**0.1710**	**0.1674**	**0.1557**	**0.1556**	**0.1566**	**0.1491**	**0.1464**	**0.1419**	**0.1389**	**0.1247**
Yearly Maximums	**31**	**33**	**35**	**36**	**38**	**39**	**40**	**41**	**42**	**42**	**43**	**43**	**42**											
Maximum Pounds per Day																								
Maximum Pounds per Hour [a]																								
Maximum Pounds per Month																								
Month with Maximum																								
Maximum Pounds per Year																								
Maximum Average Pounds per Hour [b]																								
Year with Maximum																								
Tons per Year																								

Onsite and Offsite Exhaust PM_{10} Emissions

Construction Step	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 1 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 2 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Units 1 & 2 Demolition																								
Total (lbs/month)	40.19	41.66	52.39	53.35	57.61	59.80	58.25	58.25	61.14	61.14	65.48	65.48	66.93	68.37	68.37	63.67	67.92	67.92	67.92	61.49	60.65	50.87	48.35	44.59
Total (lbs/day)	1.75	1.81	2.28	2.32	2.50	2.60	2.53	2.53	2.66	2.66	2.85	2.85	2.91	2.97	2.97	2.77	2.95	2.95	2.95	2.67	2.64	2.21	2.10	1.94
Bldgs. 33 & 34 Construction																								
Total (lbs/month)											18.81	41.38	41.92	45.15	42.67	38.41	26.90	27.07	29.26	31.82	27.44	33.28	32.18	4.43
Total (lbs/day)											0.82	1.80	1.82	1.96	1.86	1.67	1.17	1.18	1.27	1.38	1.19	1.45	1.40	0.19
Total Onsite and Offsite Exhaust PM_{10} Emissions (Construction Equipment and Vehicles)																								
Pounds per Month	**40.19**	**41.66**	**52.39**	**53.35**	**57.61**	**59.80**	**58.25**	**58.25**	**61.14**	**61.14**	**84.29**	**106.86**	**108.84**	**113.53**	**111.05**	**102.09**	**94.81**	**94.99**	**97.18**	**93.31**	**88.09**	**84.15**	**80.53**	**49.01**
Pounds per Day	**1.75**	**1.81**	**2.28**	**2.32**	**2.50**	**2.60**	**2.53**	**2.53**	**2.66**	**2.66**	**3.66**	**4.65**	**4.73**	**4.94**	**4.83**	**4.44**	**4.12**	**4.13**	**4.23**	**4.06**	**3.83**	**3.66**	**3.50**	**2.13**
Yearly Maximums	**735**	**804**	**875**	**934**	**983**	**1,020**	**1,055**	**1,094**	**1,129**	**1,156**	**1,179**	**1,175**	**1,118**											
Maximum Pounds per Day																								
Maximum Pounds per Hour [a]																								
Maximum Pounds per Month																								
Month with Maximum																								
Maximum Pounds per Year																								
Maximum Average Pounds per Hour [b]																								
Year with Maximum																								
Tons per Year																								

Onsite and Offsite Fugitive PM_{10} Emissions

Construction Step	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 1 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 2 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Units 1 & 2 Demolition																								
Total (lbs/month)	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20
Total (lbs/day)	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31
Bldgs. 33 & 34 Construction																								
Total (lbs/month)											31.90	67.66	67.66	67.66	59.69	59.69	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90
Total (lbs/day)											1.39	2.94	2.94	2.94	2.60	2.60	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
Total Onsite and Offsite Fugitive PM_{10} Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																								
Pounds per Month	**53.20**	**53.20**	**53.20**	**53.20**	**53.20**	**53.20**	**53.20**	**53.20**	**53.20**	**53.20**	**85.10**	**120.86**	**120.86**	**120.86**	**112.89**	**112.89**	**85.10**	**85.10**	**85.10**	**85.10**	**85.10**	**85.10**	**85.10**	**85.10**
Pounds per Day	**2.31**	**2.31**	**2.31**	**2.31**	**2.31**	**2.31**	**2.31**	**2.31**	**2.31**	**2.31**	**3.70**	**5.25**	**5.25**	**5.25**	**4.91**	**4.91**	**3.70**	**3.70**	**3.70**	**3.70**	**3.70**	**3.70**	**3.70**	**3.70**
Yearly Maximums	**738**	**806**	**873**	**933**	**993**	**1,025**	**1,056**	**1,088**	**1,120**	**1,152**	**1,184**	**1,184**	**1,148**											
Maximum Pounds per Day																								
Maximum Pounds per Hour [a]																								
Maximum Pounds per Month																								
Month with Maximum																								
Maximum Pounds per Year																								
Maximum Average Pounds per Hour [b]																								
Year with Maximum																								
Tons per Year																								

Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite and Offsite PM_{10} Emissions (Exhaust and Fugitive)

Parameter	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Pounds per Month	93.39	94.86	105.59	106.56	110.81	113.00	111.45	111.45	114.34	114.34	169.39	227.72	229.71	234.39	223.93	214.97	179.92	180.09	182.29	178.42	173.19	169.25	165.64	134.12
Pounds per Day	4.06	4.12	4.59	4.63	4.82	4.91	4.85	4.85	4.97	4.97	7.36	9.90	9.99	10.19	9.74	9.35	7.82	7.83	7.93	7.76	7.53	7.36	7.20	5.83
Yearly Maximums	1,473	1,609	1,749	1,867	1,976	2,045	2,112	2,183	2,250	2,308	2,363	2,360	2,266											
Maximum Pounds per Day																								
Maximum Pounds per Hour [a]																								
Maximum Pounds per Month																								
Month with Maximum																								
Maximum Pounds per Year																								
Maximum Average Pounds per Hour [b]																								
Year with Maximum																								
Tons per Year																								

Onsite and Offsite Exhaust $PM_{2.5}$ Emissions

Construction Step	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 1 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 2 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Units 1 & 2 Demolition																								
Total (lbs/month)	33.58	34.24	41.03	38.04	41.52	42.13	40.29	40.29	41.57	41.57	43.48	43.48	44.12	44.76	44.76	40.09	44.33	44.33	44.33	41.66	41.35	38.17	37.25	36.06
Total (lbs/day)	1.46	1.49	1.78	1.65	1.81	1.83	1.75	1.75	1.81	1.81	1.89	1.89	1.92	1.95	1.95	1.74	1.93	1.93	1.93	1.81	1.80	1.66	1.62	1.57
Bldgs. 33 & 34 Construction																								
Total (lbs/month)											9.27	27.23	27.35	30.05	27.45	24.01	10.66	10.68	11.30	12.01	10.79	12.42	12.12	4.34
Total (lbs/day)											0.40	1.18	1.19	1.31	1.19	1.04	0.46	0.46	0.49	0.52	0.47	0.54	0.53	0.19
Total Onsite and Offsite Exhaust $PM_{2.5}$ Emissions (Construction Equipment and Vehicles)																								
Pounds per Month	**33.58**	**34.24**	**41.03**	**38.04**	**41.52**	**42.13**	**40.29**	**40.29**	**41.57**	**41.57**	**52.75**	**70.72**	**71.47**	**74.81**	**72.21**	**64.10**	**55.00**	**55.02**	**55.63**	**53.67**	**52.13**	**50.59**	**49.36**	**40.41**
Pounds per Day	**1.46**	**1.49**	**1.78**	**1.65**	**1.81**	**1.83**	**1.75**	**1.75**	**1.81**	**1.81**	**2.29**	**3.07**	**3.11**	**3.25**	**3.14**	**2.79**	**2.39**	**2.39**	**2.42**	**2.33**	**2.27**	**2.20**	**2.15**	**1.76**
Yearly Maximums	**518**	**556**	**596**	**627**	**653**	**667**	**680**	**695**	**709**	**719**	**728**	**725**	**694**											
Maximum Pounds per Day																								
Maximum Pounds per Hour [a]																								
Maximum Pounds per Month																								
Month with Maximum																								
Maximum Pounds per Year																								
Maximum Average Pounds per Hour [b]																								
Year with Maximum																								
Tons per Year																								

Onsite and Offsite Fugitive $PM_{2.5}$ Emissions

Construction Step	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 1 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 2 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Units 1 & 2 Demolition																								
Total (lbs/month)	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005
Total (lbs/day)	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261
Bldgs. 33 & 34 Construction																								
Total (lbs/month)											3.190	19.224	19.224	19.224	18.426	18.426	3.190	3.190	3.190	3.190	3.190	3.190	3.190	3.190
Total (lbs/day)											0.139	0.836	0.836	0.836	0.801	0.801	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139
Total Onsite and Offsite Fugitive $PM_{2.5}$ Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																								
Pounds per Month	**6.01**	**6.01**	**6.01**	**6.01**	**6.01**	**6.01**	**6.01**	**6.01**	**6.01**	**6.01**	**9.20**	**25.23**	**25.23**	**25.23**	**24.43**	**24.43**	**9.20**	**9.20**	**9.20**	**9.20**	**9.20**	**9.20**	**9.20**	**9.20**
Pounds per Day	**0.26**	**0.26**	**0.26**	**0.26**	**0.26**	**0.26**	**0.26**	**0.26**	**0.26**	**0.26**	**0.40**	**1.10**	**1.10**	**1.10**	**1.06**	**1.06**	**0.40**	**0.40**	**0.40**	**0.40**	**0.40**	**0.40**	**0.40**	**0.40**
Yearly Maximums	**94**	**114**	**133**	**151**	**170**	**173**	**176**	**179**	**183**	**186**	**189**	**189**	**173**											
Maximum Pounds per Day																								
Maximum Pounds per Hour [a]																								
Maximum Pounds per Month																								
Month with Maximum																								
Maximum Pounds per Year																								
Maximum Average Pounds per Hour [b]																								
Year with Maximum																								
Tons per Year																								

Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite and Offsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

Parameter	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Pounds per Month	39.58	40.25	47.04	44.05	47.52	48.14	46.30	46.30	47.58	47.58	61.95	95.95	96.70	100.04	96.64	88.53	64.19	64.21	64.83	62.87	61.33	59.79	58.56	49.60
Pounds per Day	1.72	1.75	2.05	1.92	2.07	2.09	2.01	2.01	2.07	2.07	2.69	4.17	4.20	4.35	4.20	3.85	2.79	2.79	2.82	2.73	2.67	2.60	2.55	2.16
Yearly Maximums	612	669	729	779	823	840	856	874	891	905	917	914	867											
Maximum Pounds per Day																								
Maximum Pounds per Hour [a]																								
Maximum Pounds per Month																								
Month with Maximum																								
Maximum Pounds per Year																								
Maximum Average Pounds per Hour [b]																								
Year with Maximum																								
Tons per Year																								

Onsite and Offsite CO_2 Emissions

Construction Step	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																								
Total (metric tons/month)																								
Total (metric tons/day)																								
Block 1 Construction																								
Total (metric tons/month)																								
Total (metric tons/day)																								
Block 2 Construction																								
Total (metric tons/month)																								
Total (metric tons/day)																								
Units 1 & 2 Demolition																								
Total (metric tons/month)	85.42	87.68	104.75	108.92	119.00	119.95	114.14	114.14	118.67	118.67	125.46	125.46	127.72	129.99	129.99	129.99	141.22	141.22	141.22	131.84	130.93	123.39	120.65	118.03
Total (metric tons/day)	3.71	3.81	4.55	4.74	5.17	5.22	4.96	4.96	5.16	5.16	5.45	5.45	5.55	5.65	5.65	5.65	6.14	6.14	6.14	5.73	5.69	5.36	5.25	5.13
Bldgs. 33 & 34 Construction																								
Total (metric tons/month)											7.94	34.44	34.14	43.38	41.08	36.56	11.96	11.66	11.66	11.66	11.66	11.66	11.66	11.66
Total (metric tons/day)											0.35	1.50	1.48	1.89	1.79	1.59	0.52	0.51	0.51	0.51	0.51	0.51	0.51	0.51
Total Onsite and Offsite CO_2 Emissions (Construction Equipment and Vehicles)																								
Metric Tons per Month	85.42	87.68	104.75	108.92	119.00	119.95	114.14	114.14	118.67	118.67	133.40	159.90	161.86	173.37	171.07	166.54	153.18	152.87	152.87	143.50	142.59	135.05	132.31	129.69
Metric Tons per Day	3.71	3.81	4.55	4.74	5.17	5.22	4.96	4.96	5.16	5.16	5.80	6.95	7.04	7.54	7.44	7.24	6.66	6.65	6.65	6.24	6.20	5.87	5.75	5.64
Yearly Maximums	1,385	1,461	1,547	1,613	1,671	1,705	1,738	1,777	1,806	1,830	1,846	1,845	1,815											
Maximum Metric Tons per Day																								
Maximum Metric Tons per Hour [a]																								
Maximum Metric Tons per Month																								
Month with Maximum																								
Maximum Metric Tons per Year																								
Maximum Average Metric Tons per Hour [b]																								
Year with Maximum																								

Onsite and Offsite N_2O Emissions

Construction Step	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																								
Total (metric tons/month)																								
Total (metric tons/day)																								
Block 1 Construction																								
Total (metric tons/month)																								
Total (metric tons/day)																								
Block 2 Construction																								
Total (metric tons/month)																								
Total (metric tons/day)																								
Units 1 & 2 Demolition																								
Total (metric tons/month)	0.00193761	0.00194424	0.00234517	0.00237326	0.00263794	0.00264867	0.00245426	0.00245426	0.00246751	0.00246751	0.00248738	0.00248738	0.00249401	0.00250063	0.00250063	0.00250063	0.00278656	0.00278656	0.00278656	0.00275649	0.00275249	0.00270527	0.00269328	0.00267515
Total (metric tons/day)	0.00008424	0.00008453	0.00010196	0.00010319	0.00011469	0.00011516	0.00010671	0.00010671	0.00010728	0.00010728	0.00010815	0.00010815	0.00010844	0.00010872	0.00010872	0.00010872	0.00012115	0.00012115	0.00012115	0.00011985	0.00011967	0.00011762	0.00011710	0.00011631
Bldgs. 33 & 34 Construction																								
Total (metric tons/month)											0.00025636	0.00087739	0.00088009	0.00108157	0.00098081	0.00097293	0.00039665	0.00039756	0.00040829	0.00042081	0.00039935	0.00042796	0.00042260	0.00028667
Total (metric tons/day)											0.00001115	0.00003815	0.00003826	0.00004702	0.00004264	0.00004230	0.00001725	0.00001729	0.00001775	0.00001830	0.00001736	0.00001861	0.00001837	0.00001246
Total Onsite and Offsite N_2O Emissions (Construction Equipment and Vehicles)																								
Metric Tons per Month	0.001938	0.001944	0.002345	0.002373	0.002638	0.002649	0.002454	0.002454	0.002468	0.002468	0.002744	0.003365	0.003374	0.003582	0.003481	0.003474	0.003183	0.003184	0.003195	0.003177	0.003152	0.003133	0.003116	0.002962
Metric Tons per Day	0.000084	0.000085	0.000102	0.000103	0.000115	0.000115	0.000107	0.000107	0.000107	0.000107	0.000119	0.000146	0.000147	0.000156	0.000151	0.000151	0.000138	0.000138	0.000139	0.000138	0.000137	0.000136	0.000135	0.000129
Yearly Maximums	0.02984	0.03128	0.03291	0.03405	0.03515	0.03570	0.03623	0.03697	0.03769	0.03838	0.03904	0.03942	0.03901											
Maximum Metric Tons per Day																								
Maximum Metric Tons per Hour [a]																								
Maximum Metric Tons per Month																								
Month with Maximum																								
Maximum Metric Tons per Year																								
Maximum Average Metric Tons per Hour [b]																								
Year with Maximum																								

Onsite and Offsite CH_4 Emissions

Construction Step	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																								
Total (metric tons/month)																								
Total (metric tons/day)																								
Block 1 Construction																								
Total (metric tons/month)																								
Total (metric tons/day)																								
Block 2 Construction																								
Total (metric tons/month)																								
Total (metric tons/day)																								
Units 1 & 2 Demolition																								
Total (metric tons/month)	0.0043517	0.0043587	0.0053222	0.0054323	0.0060438	0.0060954	0.0056447	0.0056447	0.0056588	0.0056588	0.0056799	0.0056799	0.0056870	0.0056940	0.0056940	0.0056940	0.0063318	0.0063318	0.0063318	0.0062865	0.0062756	0.0060982	0.0060654	0.0059925
Total (metric tons/day)	0.0001892	0.0001895	0.0002314	0.0002362	0.0002628	0.0002650	0.0002454	0.0002454	0.0002460	0.0002460	0.0002470	0.0002470	0.0002473	0.0002476	0.0002476	0.0002476	0.0002753	0.0002753	0.0002753	0.0002733	0.0002729	0.0002651	0.0002637	0.0002605
Bldgs. 33 & 34 Construction																								
Total (metric tons/month)											0.0007368	0.0021705	0.0021868	0.0026311	0.0023910	0.0024028	0.0011638	0.0011715	0.0012230	0.0012832	0.0011801	0.0013176	0.0012918	0.0006386
Total (metric tons/day)											0.0000320	0.0000944	0.0000951	0.0001144	0.0001040	0.0001045	0.0000506	0.0000509	0.0000532	0.0000558	0.0000513	0.0000573	0.0000562	0.0000278
Total Onsite and Offsite CH_4 Emissions (Construction Equipment and Vehicles)																								
Metric Tons per Month	0.00435	0.00436	0.00532	0.00543	0.00604	0.00610	0.00564	0.00564	0.00566	0.00566	0.00642	0.00785	0.00787	0.00833	0.00809	0.00810	0.00750	0.00750	0.00755	0.00757	0.00746	0.00742	0.00736	0.00663
Metric Tons per Day	0.00019	0.00019	0.00023	0.00024	0.00026	0.00027	0.00025	0.00025	0.00025	0.00025	0.00028	0.00034	0.00034	0.00036	0.00035	0.00035	0.00033	0.00033	0.00033	0.00033	0.00032	0.00032	0.00032	0.00029
Yearly Maximums	0.06848	0.07200	0.07597	0.07873	0.08139	0.08285	0.08425	0.08616	0.08809	0.08989	0.09164	0.09258	0.09136											
Maximum Metric Tons per Day																								
Maximum Metric Tons per Hour [a]																								
Maximum Metric Tons per Month																								
Month with Maximum																								
Maximum Metric Tons per Year																								
Maximum Average Metric Tons per Hour [b]																								
Year with Maximum																								

Notes:
[a] The hours per day are per 'Manpower Schedule Huntington Be
[b] The hours per year are assumed to allow operation 24 hours per

Huntington Beach Energy Project
Construction Emission Estimates - Units 3 and 4 Demolition
April 2014

Table 5.1A.49R Onsite Construction Equipment Exhaust Emissions

Construction Equipment CO Emissions from Units 3 & 4 Demolition

	CO Emisisons (lbs/month)																											
Onsite Equipment	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Water Truck	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57
Cranes	39.32	39.32	39.32	39.32	39.32	39.32	39.32	39.32	78.65	78.65	117.97	117.97	117.97	117.97	78.65	78.65	78.65	78.65	78.65	78.65	78.65	78.65	78.65	78.65	117.97	117.97	117.97
Rubber Tired Loader	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	102.69	102.69	102.69
Air Compressor	57.77	57.77	57.77	57.77	57.77	57.77	57.77	57.77	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54
Forklift	57.15	57.15	57.15	57.15	57.15	57.15	57.15	57.15	57.15	57.15	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30
Excavator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	259.65	259.65	389.48	389.48	519.30	519.30	519.30	519.30	519.30	519.30	519.30	519.30	519.30	519.30	519.30	519.30	519.30	519.30	519.30
Onsite Total (lbs/month)	**220.81**	**220.81**	**220.81**	**220.81**	**220.81**	**220.81**	**220.81**	**220.81**	**628.91**	**628.91**	**855.21**	**855.21**	**985.03**	**985.03**	**945.71**	**945.71**	**945.71**	**945.71**	**945.71**	**945.71**	**945.71**	**945.71**	**945.71**	**945.71**	**1,036.38**	**1,036.38**	**1,036.38**
Onsite Total (lbs/day) [a]	**9.60**	**9.60**	**9.60**	**9.60**	**9.60**	**9.60**	**9.60**	**9.60**	**27.34**	**27.34**	**37.18**	**37.18**	**42.83**	**42.83**	**41.12**	**41.12**	**41.12**	**41.12**	**41.12**	**41.12**	**41.12**	**41.12**	**41.12**	**41.12**	**45.06**	**45.06**	**45.06**
Onsite Total (tons/year)	**5.81**																										

Construction Equipment VOC Emissions from Units 3 & 4 Demolition

	VOC Emisisons (lbs/month)																											
Onsite Equipment	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Water Truck	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31
Cranes	13.06	13.06	13.06	13.06	13.06	13.06	13.06	13.06	26.12	26.12	39.18	39.18	39.18	39.18	26.12	26.12	26.12	26.12	26.12	26.12	26.12	26.12	26.12	26.12	39.18	39.18	39.18
Rubber Tired Loader	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	19.52	19.52	19.52
Air Compressor	11.30	11.30	11.30	11.30	11.30	11.30	11.30	11.30	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60
Forklift	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50
Excavator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.95	37.95	56.93	56.93	75.91	75.91	75.91	75.91	75.91	75.91	75.91	75.91	75.91	75.91	75.91	75.91	75.91	75.91	75.91
Onsite Total (lbs/month)	**53.42**	**53.42**	**53.42**	**53.42**	**53.42**	**53.42**	**53.42**	**53.42**	**125.49**	**125.49**	**165.28**	**165.28**	**184.25**	**184.25**	**171.19**	**171.19**	**171.19**	**171.19**	**171.19**	**171.19**	**171.19**	**171.19**	**171.19**	**171.19**	**194.01**	**194.01**	**194.01**
Onsite Total (lbs/day) [a]	**2.32**	**2.32**	**2.32**	**2.32**	**2.32**	**2.32**	**2.32**	**2.32**	**5.46**	**5.46**	**7.19**	**7.19**	**8.01**	**8.01**	**7.44**	**7.44**	**7.44**	**7.44**	**7.44**	**7.44**	**7.44**	**7.44**	**7.44**	**7.44**	**8.44**	**8.44**	**8.44**
Onsite Total (tons/year)	**1.06**																										

Construction Equipment NOx Emissions from Units 3 & 4 Demolition

	NOx Emissions (lbs/month)																											
Onsite Equipment	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Water Truck	143.87	143.87	143.87	143.87	143.87	143.87	143.87	143.87	143.87	143.87	143.87	143.87	126.74	126.74	126.74	126.74	126.74	126.74	126.74	126.74	126.74	126.74	126.74	126.74	111.49	111.49	111.49
Cranes	112.55	112.55	112.55	112.55	112.55	112.55	112.55	112.55	225.10	225.10	337.64	337.64	306.16	306.16	204.11	204.11	204.11	204.11	204.11	204.11	204.11	204.11	204.11	204.11	276.36	276.36	276.36
Rubber Tired Loader	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.02	61.02	61.02	61.02	56.36	56.36	56.36	56.36	56.36	56.36	56.36	56.36	56.36	56.36	56.36	56.36	104.16	104.16	104.16
Air Compressor	72.75	72.75	72.75	72.75	72.75	72.75	72.75	72.75	145.49	145.49	145.49	145.49	134.01	134.01	134.01	134.01	134.01	134.01	134.01	134.01	134.01	134.01	134.01	134.01	123.02	123.02	123.02
Forklift	52.05	52.05	52.05	52.05	52.05	52.05	52.05	52.05	52.05	52.05	104.10	104.10	91.66	91.66	91.66	91.66	91.66	91.66	91.66	91.66	91.66	91.66	91.66	91.66	79.49	79.49	79.49
Excavator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	256.34	256.34	384.50	384.50	451.73	451.73	451.73	451.73	451.73	451.73	451.73	451.73	451.73	451.73	451.73	451.73	396.04	396.04	396.04
Onsite Total (lbs/month)	**381.21**	**381.21**	**381.21**	**381.21**	**381.21**	**381.21**	**381.21**	**381.21**	**883.86**	**883.86**	**1,176.62**	**1,176.62**	**1,166.67**	**1,166.67**	**1,064.62**	**1,064.62**	**1,064.62**	**1,064.62**	**1,064.62**	**1,064.62**	**1,064.62**	**1,064.62**	**1,064.62**	**1,064.62**	**1,090.55**	**1,090.55**	**1,090.55**
Onsite Total (lbs/day) [a]	**16.57**	**16.57**	**16.57**	**16.57**	**16.57**	**16.57**	**16.57**	**16.57**	**38.43**	**38.43**	**51.16**	**51.16**	**50.72**	**50.72**	**46.29**	**46.29**	**46.29**	**46.29**	**46.29**	**46.29**	**46.29**	**46.29**	**46.29**	**46.29**	**47.42**	**47.42**	**47.42**
Onsite Total (tons/year)	**6.60**																										

Construction Equipment SOx Emissions from Units 3 & 4 Demolition

	SOx Emissions (lbs/month)																											
Onsite Equipment	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Water Truck	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Cranes	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.35	0.35	0.53	0.53	0.53	0.53	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.53	0.53	0.53
Rubber Tired Loader	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.16	0.16	0.16
Air Compressor	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Forklift	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Excavator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.46	0.69	0.69	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Onsite Total (lbs/month)	**0.65**	**0.65**	**0.65**	**0.65**	**0.65**	**0.65**	**0.65**	**0.65**	**1.45**	**1.45**	**1.97**	**1.97**	**2.20**	**2.20**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.28**	**2.28**	**2.28**
Onsite Total (lbs/day) [a]	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.06**	**0.06**	**0.09**	**0.09**	**0.10**	**0.10**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.10**	**0.10**	**0.10**
Onsite Total (tons/year)	**0.01**																										

Construction Equipment PM_{10} Emissions from Units 3 & 4 Demolition

	PM_{10} Emissions (lbs/month)																											
Onsite Equipment	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Water Truck	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.02	4.02	4.02
Cranes	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	7.72	7.72	11.58	11.58	10.44	10.44	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96	9.46	9.46	9.46
Rubber Tired Loader	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.89	4.89	4.89	4.89	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	7.76	7.76	7.76
Air Compressor	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	12.06	12.06	12.06	12.06	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	9.23	9.23	9.23
Forklift	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	5.64	5.64	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.22	4.22	4.22
Excavator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.81	13.81	20.71	20.71	23.91	23.91	23.91	23.91	23.91	23.91	23.91	23.91	23.91	23.91	23.91	23.91	20.52	20.52	20.52
Onsite Total (lbs/month)	**17.83**	**17.83**	**17.83**	**17.83**	**17.83**	**17.83**	**17.83**	**17.83**	**46.42**	**46.42**	**60.01**	**60.01**	**58.79**	**58.79**	**55.31**	**55.31**	**55.31**	**55.31**	**55.31**	**55.31**	**55.31**	**55.31**	**55.31**	**55.31**	**55.21**	**55.21**	**55.21**
Onsite Total (lbs/day) [a]	**0.78**	**0.78**	**0.78**	**0.78**	**0.78**	**0.78**	**0.78**	**0.78**	**2.02**	**2.02**	**2.61**	**2.61**	**2.56**	**2.56**	**2.40**	**2.40**	**2.40**	**2.40**	**2.40**	**2.40**	**2.40**	**2.40**	**2.40**	**2.40**	**2.40**	**2.40**	**2.40**
Onsite Total (tons/year)	**0.34**																										

Huntington Beach Energy Project
Construction Emission Estimates - Units 3 and 4 Demolition
April 2014

Table 5.1A.49R Onsite Construction Equipment Exhaust Emissions

Construction Equipment $PM_{2.5}$ Emissions from Units 3 & 4 Demolition

	$PM_{2.5}$ Emissions (lbs/month)																											
Onsite Equipment	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Water Truck	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.02	4.02	4.02
Cranes	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	7.72	7.72	11.58	11.58	10.44	10.44	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96	9.46	9.46	9.46
Rubber Tired Loader	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.89	4.89	4.89	4.89	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	7.76	7.76	7.76
Air Compressor	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03	12.06	12.06	12.06	12.06	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	9.23	9.23	9.23
Forklift	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	5.64	5.64	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.22	4.22	4.22
Excavator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.81	13.81	20.71	20.71	23.91	23.91	23.91	23.91	23.91	23.91	23.91	23.91	23.91	23.91	23.91	23.91	20.52	20.52	20.52
Onsite Total (lbs/month)	**17.83**	**17.83**	**17.83**	**17.83**	**17.83**	**17.83**	**17.83**	**17.83**	**46.42**	**46.42**	**60.01**	**60.01**	**58.79**	**58.79**	**55.31**	**55.31**	**55.31**	**55.31**	**55.31**	**55.31**	**55.31**	**55.31**	**55.31**	**55.31**	**55.21**	**55.21**	**55.21**
Onsite Total (lbs/day) [a]	**0.78**	**0.78**	**0.78**	**0.78**	**0.78**	**0.78**	**0.78**	**0.78**	**2.02**	**2.02**	**2.61**	**2.61**	**2.56**	**2.56**	**2.40**	**2.40**	**2.40**	**2.40**	**2.40**	**2.40**	**2.40**	**2.40**	**2.40**	**2.40**	**2.40**	**2.40**	**2.40**
Onsite Total (tons/year)	**0.34**																										

Construction Equipment CO_2 Emissions from Units 3 & 4 Demolition

	CO_2 Emissions (metric tons/month)																											
Onsite Equipment	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Water Truck	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48
Cranes	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75	15.51	15.51	23.26	23.26	23.26	23.26	15.51	15.51	15.51	15.51	15.51	15.51	15.51	15.51	15.51	15.51	23.26	23.26	23.26
Rubber Tired Loader	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	6.95	6.95	6.95
Air Compressor	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08
Forklift	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98
Excavator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.40	20.40	30.60	30.60	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80
Onsite Total (metric tons/month)	**30.76**	**30.76**	**30.76**	**30.76**	**30.76**	**30.76**	**30.76**	**30.76**	**66.43**	**66.43**	**88.87**	**88.87**	**99.07**	**99.07**	**91.32**	**91.32**	**91.32**	**91.32**	**91.32**	**91.32**	**91.32**	**91.32**	**91.32**	**91.32**	**102.55**	**102.55**	**102.55**
Onsite Total (metric tons/day) [a]	**1.34**	**1.34**	**1.34**	**1.34**	**1.34**	**1.34**	**1.34**	**1.34**	**2.89**	**2.89**	**3.86**	**3.86**	**4.31**	**4.31**	**3.97**	**3.97**	**3.97**	**3.97**	**3.97**	**3.97**	**3.97**	**3.97**	**3.97**	**3.97**	**4.46**	**4.46**	**4.46**
Onsite Total (metric tons/year)	**1129.52**																										

Construction Equipment N_2O Emissions from Units 3 & 4 Demolition

	N_2O Emissions (metric tons/month)																											
Onsite Equipment	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Water Truck	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004
Cranes	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0004	0.0004	0.0006	0.0006	0.0006	0.0006	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0006	0.0006	0.0006
Rubber Tired Loader	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002
Air Compressor	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Forklift	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Excavator	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0005	0.0005	0.0008	0.0008	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
Onsite Total (metric tons/month)	**0.0008**	**0.0008**	**0.0008**	**0.0008**	**0.0008**	**0.0008**	**0.0008**	**0.0008**	**0.0017**	**0.0017**	**0.0023**	**0.0023**	**0.0025**	**0.0025**	**0.0023**	**0.0023**	**0.0023**	**0.0023**	**0.0023**	**0.0023**	**0.0023**	**0.0023**	**0.0023**	**0.0023**	**0.0026**	**0.0026**	**0.0026**
Onsite Total (metric tons/day) [a]	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**
Onsite Total (metric tons/year)	**0.0288**																										

Construction Equipment CH_4 Emissions from Units 3 & 4 Demolition

	CH_4 Emissions (metric tons/month)																											
Onsite Equipment	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Water Truck	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
Cranes	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0009	0.0009	0.0013	0.0013	0.0013	0.0013	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0013	0.0013	0.0013
Rubber Tired Loader	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0004	0.0004	0.0004
Air Compressor	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Forklift	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Excavator	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0012	0.0012	0.0017	0.0017	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023
Onsite Total (metric tons/month)	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0038**	**0.0038**	**0.0050**	**0.0050**	**0.0056**	**0.0056**	**0.0052**	**0.0052**	**0.0052**	**0.0052**	**0.0052**	**0.0052**	**0.0052**	**0.0052**	**0.0052**	**0.0052**	**0.0058**	**0.0058**	**0.0058**
Onsite Total (metric tons/day) [a]	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0003**	**0.0003**	**0.0003**
Onsite Total (metric tons/year)	**0.0642**																										

Notes:

[a] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls', the days per month are as follo

Huntington Beach Energy Project
Construction Emission Estimates - Units 3 and 4 Demolition
April 2014

Table 5.1A.50R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle CO Emissions from Units 3 & 4 Demolition

	CO Emissions (lbs/day)																									
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Onsite Pick-up Truck	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Onsite Stake Truck	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Onsite Dump Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Onsite Total (lbs/day)	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**
	CO Emissions (lbs/month) [a]																									
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Onsite Pick-up Truck	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Onsite Stake Truck	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
Onsite Dump Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
Onsite Total (lbs/month)	**1.45**	**1.45**	**1.45**	**1.45**	**1.45**	**1.45**	**1.45**	**1.45**	**2.00**	**2.00**	**2.00**	**2.00**	**2.00**	**2.00**	**2.00**	**2.00**	**2.00**	**2.00**	**2.00**	**2.00**	**2.00**	**2.00**	**2.00**	**2.00**	**2.00**	**2.00**	**2.00**
Onsite Total (tons/year)	**0.01**																										

Onsite Construction Vehicle VOC Emissions from Units 3 & 4 Demolition

	VOC Emisisons (lbs/day)																									
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Onsite Pick-up Truck	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Onsite Stake Truck	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028
Onsite Dump Truck	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
Onsite Total (lbs/day)	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.043**	**0.043**	**0.043**	**0.043**	**0.043**	**0.043**	**0.043**	**0.043**	**0.043**	**0.043**	**0.043**	**0.043**	**0.043**	**0.043**	**0.043**	**0.043**	**0.043**	**0.043**	**0.043**
	VOC Emissions (lbs/month) [a]																									
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Onsite Pick-up Truck	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Onsite Stake Truck	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
Onsite Dump Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Onsite Total (lbs/month)	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.98**	**0.98**	**0.98**	**0.98**	**0.98**	**0.98**	**0.98**	**0.98**	**0.98**	**0.98**	**0.98**	**0.98**	**0.98**	**0.98**	**0.98**	**0.98**	**0.98**	**0.98**	**0.98**
Onsite Total (tons/year)	**0.01**																										

Onsite Construction Vehicle SOx Emissions from Units 3 & 4 Demolition

	SOx Emissions (lbs/day)																									
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Onsite Pick-up Truck	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
Onsite Stake Truck	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016
Onsite Dump Truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
Onsite Total (lbs/day)	**0.00021**	**0.00021**	**0.00021**	**0.00021**	**0.00021**	**0.00021**	**0.00021**	**0.00021**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**
	SOx Emissions (lbs/month) [a]																									
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Onsite Pick-up Truck	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011
Onsite Stake Truck	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038
Onsite Dump Truck	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019
Onsite Total (lbs/month)	**0.0049**	**0.0049**	**0.0049**	**0.0049**	**0.0049**	**0.0049**	**0.0049**	**0.0049**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**
Onsite Total (tons/year)	**0.00**																										

Onsite Construction Vehicle NOx Emissions from Units 3 & 4 Demolition

	NOx Emissions (lbs/day)																									
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Onsite Pick-up Truck	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Onsite Stake Truck	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.066	0.066	0.066
Onsite Dump Truck	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.041	0.041	0.041	0.041	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.033	0.033	0.033
Onsite Total (lbs/day)	**0.084**	**0.084**	**0.084**	**0.084**	**0.084**	**0.084**	**0.084**	**0.084**	**0.125**	**0.125**	**0.125**	**0.125**	**0.111**	**0.111**	**0.111**	**0.111**	**0.111**	**0.111**	**0.111**	**0.111**	**0.111**	**0.111**	**0.111**	**0.111**	**0.100**	**0.100**	**0.100**
	NOx Emissions (lbs/month) [a]																									
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Onsite Pick-up Truck	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.028	0.028	0.028
Onsite Stake Truck	1.895	1.895	1.895	1.895	1.895	1.895	1.895	1.895	1.895	1.895	1.895	1.895	1.688	1.688	1.688	1.688	1.688	1.688	1.688	1.688	1.688	1.688	1.688	1.688	1.514	1.514	1.514
Onsite Dump Truck	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.948	0.948	0.948	0.948	0.844	0.844	0.844	0.844	0.844	0.844	0.844	0.844	0.844	0.844	0.844	0.844	0.757	0.757	0.757
Onsite Total (lbs/month)	**1.928**	**1.928**	**1.928**	**1.928**	**1.928**	**1.928**	**1.928**	**1.928**	**2.876**	**2.876**	**2.876**	**2.876**	**2.563**	**2.563**	**2.563**	**2.563**	**2.563**	**2.563**	**2.563**	**2.563**	**2.563**	**2.563**	**2.563**	**2.563**	**2.300**	**2.300**	**2.300**
Onsite Total (tons/year)	**0.02**																										

Onsite Construction Vehicle PM_{10} Emissions from Units 3 & 4 Demolition

	PM_{10} Emissions (lbs/day)																									
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Onsite Pick-up Truck	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.001	0.001	0.001	0.001
Onsite Stake Truck	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	0.0037	0.0037	0.0037	0.0037	0.0037	0.0037	0.0037	0.0037	0.0037	0.0037	0.0037	0.004	0.003	0.003	0.003
Onsite Dump Truck	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0022	0.0022	0.0022	0.0022	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.002	0.002	0.002	0.002
Onsite Total (lbs/day)	**0.0050**	**0.0050**	**0.0050**	**0.0050**	**0.0050**	**0.0050**	**0.0050**	**0.0050**	**0.0072**	**0.0072**	**0.0072**	**0.0072**	**0.0061**	**0.0061**	**0.0061**	**0.0061**	**0.0061**	**0.0061**	**0.0061**	**0.0061**	**0.0061**	**0.0061**	**0.0061**	**0.006**	**0.005**	**0.005**	**0.005**
	PM_{10} Emissions (lbs/month) [a]																									
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Onsite Pick-up Truck	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
Onsite Stake Truck	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.072	0.072	0.072
Onsite Dump Truck	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.051	0.051	0.051	0.051	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.036	0.036	0.036
Onsite Total (lbs/month)	**0.115**	**0.115**	**0.115**	**0.115**	**0.115**	**0.115**	**0.115**	**0.115**	**0.166**	**0.166**	**0.166**	**0.166**	**0.141**	**0.141**	**0.141**	**0.141**	**0.141**	**0.141**	**0.141**	**0.141**	**0.141**	**0.141**	**0.141**	**0.141**	**0.121**	**0.121**	**0.121**
Onsite Total (tons/year)	**0.001**																										

Table 5.1A.50R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle $PM_{2.5}$ Emissions from Units 3 & 4 Demolition

	$PM_{2.5}$ Emissions (lbs/day)																									
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Onsite Pick-up Truck	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Onsite Stake Truck	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0033	0.0033	0.0033	0.0033	0.0033	0.0033	0.0033	0.0033	0.0033	0.0033	0.0033	0.0033	0.0027	0.0027	0.0027
Onsite Dump Truck	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0020	0.0020	0.0020	0.0020	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0014	0.0014	0.0014
Onsite Total (lbs/day)	**0.0044**	**0.0044**	**0.0044**	**0.0044**	**0.0044**	**0.0044**	**0.0044**	**0.0044**	**0.0063**	**0.0063**	**0.0063**	**0.0063**	**0.0053**	**0.0053**	**0.0053**	**0.0053**	**0.0053**	**0.0053**	**0.0053**	**0.0053**	**0.0053**	**0.0053**	**0.0053**	**0.0053**	**0.0045**	**0.0045**	**0.0045**
	$PM_{2.5}$ Emissions (lbs/month) [a]																									
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Onsite Pick-up Truck	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
Onsite Stake Truck	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.062	0.062	0.062
Onsite Dump Truck	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.045	0.045	0.045	0.045	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.031	0.031	0.031
Onsite Total (lbs/month)	**0.100**	**0.100**	**0.100**	**0.100**	**0.100**	**0.100**	**0.100**	**0.100**	**0.145**	**0.145**	**0.145**	**0.145**	**0.123**	**0.123**	**0.123**	**0.123**	**0.123**	**0.123**	**0.123**	**0.123**	**0.123**	**0.123**	**0.123**	**0.123**	**0.104**	**0.104**	**0.104**
Onsite Total (tons/year)	**0.001**																										

Onsite Construction Vehicle CO_2 Emissions from Units 3 & 4 Demolition

	CO_2 Emissions (metric tons/day)																									
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Onsite Pick-up Truck	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Onsite Stake Truck	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Onsite Dump Truck	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Onsite Total (metric tons/day)	**0.010**	**0.010**	**0.010**	**0.010**	**0.010**	**0.010**	**0.010**	**0.010**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**
	CO_2 Emissions (metric tons/month) [a]																									
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Onsite Pick-up Truck	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054
Onsite Stake Truck	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179
Onsite Dump Truck	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090
Onsite Total (metric tons/month)	**0.233**	**0.233**	**0.233**	**0.233**	**0.233**	**0.233**	**0.233**	**0.233**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**
Onsite Total (metric tons/year)	**3.877**																										

Onsite Construction Vehicle N_2O Emissions from Units 3 & 4 Demolition

	N_2O Emissions (metric tons/day)																									
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Onsite Pick-up Truck	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013
Onsite Stake Truck	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010
Onsite Dump Truck	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005
Onsite Total (metric tons/day)	**0.000000023**	**0.000000023**	**0.000000023**	**0.000000023**	**0.000000023**	**0.000000023**	**0.000000023**	**0.000000023**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**
	N_2O Emissions (metric tons/month) [a]																									
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Onsite Pick-up Truck	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030
Onsite Stake Truck	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022
Onsite Dump Truck	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011
Onsite Total (metric tons/month)	**0.00000052**	**0.00000052**	**0.00000052**	**0.00000052**	**0.00000052**	**0.00000052**	**0.00000052**	**0.00000052**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**
Onsite Total (metric tons/year)	**0.000008**																										

Onsite Construction Vehicle CH_4 Emissions from Units 3 & 4 Demolition

	CH_4 Emissions (metric tons/day)																									
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Onsite Pick-up Truck	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033
Onsite Stake Truck	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010
Onsite Dump Truck	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005
Onsite Total (metric tons/day)	**0.000000043**	**0.000000043**	**0.000000043**	**0.000000043**	**0.000000043**	**0.000000043**	**0.000000043**	**0.000000043**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**
	CH_4 Emissions (metric tons/month) [a]																									
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Onsite Pick-up Truck	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007
Onsite Stake Truck	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002
Onsite Dump Truck	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001
Onsite Total (metric tons/month)	**0.0000010**	**0.0000010**	**0.0000010**	**0.0000010**	**0.0000010**	**0.0000010**	**0.0000010**	**0.0000010**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**
Onsite Total (metric tons/year)	**0.000013**																										

Notes:

[a] The days per month are per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls', as presented on the 'Onsite Fugitive Dust' tab.

Huntington Beach Energy Project
Construction Emission Estimates - Units 3 and 4 Demolition
April 2014

Table 5.1A.51R Onsite Demolition Fugitive Dust Emissions

Demolition Activity Levels for Units 3 & 4 Demolition

Source	Monthly Activity Levels																											
	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Debris Generated from Mechanical Dismemberment (tons	812.74	812.74	812.74	812.74	812.74	812.74	812.74	812.74	812.74	812.74	812.74	812.74	812.74	812.74	812.74	812.74	812.74	812.74	812.74	812.74	812.74	812.74	812.74	812.74	812.74	812.74	812.74

[a] Debris generated from Table 5.14-3, Wastes Generated during Demolition of HBGS Units 1 & 2 or HBGS Units 3 & 4. Only materials generated from demolition that may generate fugitive dust were included. The monthly quantities were determined as follows:

Scrap Materials	16,000	lbs/week	which equals	32.00	tons/month
Scrap Metals	20,000	tons	which equals	740.74	tons/month
Concrete	0	tons	which equals	0.00	tons/month
Asphalt	80	tons	which equals	2.96	tons/month
Asbestos Waste	1,000	tons	which equals	37.04	tons/month

The above calculations are based on the following assumptions:

Demolition will last	27	months
The construction schedule allows for	4	weeks/month

Onsite Construction Vehicle Fugitive PM_{10} Emissions from Units 3 & 4 Demolition

Vehicle Type	Fugitive PM_{10} Emissions (lbs/day) [a]																											
	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Onsite Pick-up Truck	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Onsite Stake Truck	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Onsite Dump Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Onsite Total (lbs/day)	**1.39**	**1.39**	**1.39**	**1.39**	**1.39**	**1.39**	**1.39**	**1.39**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**	**1.73**
Vehicle Type	**Fugitive PM_{10} Emissions (lbs/month) [a]**																											
	10	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Onsite Pick-up Truck	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95
Onsite Stake Truck	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95
Onsite Dump Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98
Onsite Total (lbs/month)	**31.90**	**31.90**	**31.90**	**31.90**	**31.90**	**31.90**	**31.90**	**31.90**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**	**39.88**
Onsite Total (tons/year)	**0.24**																										

Notes:
[a] Emissions based on highest (controlled) unpaved road emission factor for PM_{10}.

Onsite Construction Vehicle Fugitive $PM_{2.5}$ Emissions from Units 3 & 4 Demolition

Vehicle Type	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a]																											
	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Onsite Pick-up Truck	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Onsite Stake Truck	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Onsite Dump Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Onsite Total (lbs/day)	**0.14**	**0.14**	**0.14**	**0.14**	**0.14**	**0.14**	**0.14**	**0.14**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**
Vehicle Type	**Fugitive $PM_{2.5}$ Emissions (lbs/month) [a]**																											
	10	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Onsite Pick-up Truck	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
Onsite Stake Truck	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
Onsite Dump Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Onsite Total (lbs/month)	**3.19**	**3.19**	**3.19**	**3.19**	**3.19**	**3.19**	**3.19**	**3.19**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**
Onsite Total (tons/year)	**0.02**																										

Notes:
[a] Emissions based on the highest (controlled) unpaved road emission factor for $PM_{2.5}$.

Onsite Demolition Fugitive PM_{10} Emissions from Units 3 & 4 Demolition

Demolition Activity	Fugitive PM_{10} Emissions (lbs/day) [a, b]																											
	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Dismemberment	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Debris Loading [c]	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
Onsite Total (lbs/day)	**0.48**	**0.48**	**0.48**	**0.48**	**0.48**	**0.48**	**0.48**	**0.48**	**0.48**	**0.48**	**0.48**	**0.48**	**0.48**	**0.48**	**0.48**	**0.48**	**0.48**	**0.48**	**0.48**	**0.48**	**0.48**	**0.48**	**0.48**	**0.48**	**0.48**	**0.48**	**0.48**
Demolition Activity	**Fugitive PM_{10} Emissions (lbs/month) [a, b]**																											
	10	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Dismemberment	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
Debris Loading [c]	10.56	10.56	10.56	10.56	10.56	10.56	10.56	10.56	10.56	10.56	10.56	10.56	10.56	10.56	10.56	10.56	10.56	10.56	10.56	10.56	10.56	10.56	10.56	10.56	10.56	10.56	10.56
Onsite Total (lbs/month)	**11.13**	**11.13**	**11.13**	**11.13**	**11.13**	**11.13**	**11.13**	**11.13**	**11.13**	**11.13**	**11.13**	**11.13**	**11.13**	**11.13**	**11.13**	**11.13**	**11.13**	**11.13**	**11.13**	**11.13**	**11.13**	**11.13**	**11.13**	**11.13**	**11.13**	**11.13**	**11.13**
Onsite Total (tons/year)	**0.07**																										

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Emissions based on the highest (controlled) emission factor for PM_{10}.
[c] Assume that all debris generated per month from dismemberment is loaded in the same month that it is generated.

Table 5.1A.51R Onsite Demolition Fugitive Dust Emissions

Onsite Demolition Fugitive $PM_{2.5}$ Emissions from Units 3 & 4 Demolition

	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a, b]																											
Demolition Activity	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Dismemberment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Debris Loading [c]	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Onsite Total (lbs/day)	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**
	Fugitive $PM_{2.5}$ Emissions (lbs/month) [a, b]																										
Demolition Activity	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Dismemberment	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Debris Loading [c]	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
Onsite Total (lbs/month)	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**
Onsite Total (tons/year)	**0.01**																										

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Emissions based on the highest (controlled) emission factor for $PM_{2.5}$.
[c] Assume that all debris generated per month from dismemberment is loaded in the same month that it is generated.

Onsite Construction Vehicle Activity for Units 3 & 4 Demolition

Vehicle Type	Miles/Day [a]	Working Days per Month [b]
Onsite Pick-up Truck	2	23
Onsite Stake Truck	2	23
Onsite Dump Truck	1	23

Notes:
[a] Estimated based on the dimensions of the project site.
[b] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Fugitive Dust Emission Factors for Unpaved Roads

Vehicles on Unpaved Surfaces at Industrial Sites

Parameter	PM_{10}	$PM_{2.5}$
Mean Vehicle Weight [a]	16.5	16.5
Silt Content [b]	8.5	8.5
k [c]	1.5	0.15
a [c]	0.9	0.9
b [c]	0.45	0.45
P [d]	31	31
Emission Factor (Uncontrolled, lbs/mile) [e]	2.17	0.22
Reduction from Applying Soil Stabilizers [f]	84%	84%
Emission Factor (Controlled, lbs/mile)	0.35	0.03

Notes:
[a] Mean vehicle weight assumes that medium/heavy duty trucks weigh 16.5 tons.
[b] Silt content taken from Table 13.2.2-1 of Section 13.2.2 of AP-42 for a Construction Site, Scraper Route; this value is consistent with the CalEEMod defaults for the South Coast Air Basin.
[c] k, a, and b taken from Table 13.2.2-2 of Section 13.2.2 of AP-42 for industrial roads.
[d] P taken as the CalEEMod default for the Huntington Beach climate region of the South Coast Air Basin.
[e] Emission factor calculated using Equations 1a and 2 from Section 13.2.2 of AP-42:

Emission Factor (lbs/mile) = $\{k\ (lbs/mile) \times [Silt\ Content\ (\%) / 12]^a \times [Mean\ Vehicle\ Weight\ (tons) / 3]^b\} \times [(365 - P) / 365]$

[f] Control efficiency taken from Table XI-D of the SCAQMD CEQA Handbook for Travel Over Unpaved Roads.

Fugitive Dust Emission Factors for Dismemberment

Dismemberment and Collapse of Structures

Parameter	PM_{10}	$PM_{2.5}$
k [a]	0.35	0.053
U (mph) [b]	4.9	4.9
M (%) [c]	2.0	2.0
Emission Factor (lbs/ton) [d]	0.00110	0.00017
Reduction from Watering Every 4 Hours [e]	36%	36%
Emission Factor (Controlled, lbs/ton)	0.00070	0.00011

Notes:
[a] k, the particle size multiplier, taken from Section 13.2.4.3 of AP-42 per Section 4.4 of Appendix A of the CalEEMod User's Guide.
[b] U, the mean wind speed, taken as the CalEEMod default for the South Coast Air Basin. Converted from meters/second (m/s) to miles per hour (mph).
[c] M, the material moisture content, taken from Section 4.4 of Appendix A of the CalEEMod User's Guide.
[d] Emission factor calculated using the following equation from Section 13.2.4.3 of AP-42 per Section 4.4 of Appendix A of the CalEEMod User's Guide:

Emission Factor (lbs/ton) = $k \times 0.0032 \times [U / 5]^{1.3} \times [M / 2]^{1.4}$

[e] Control efficiency taken from Table XI-A of the SCAQMD CEQA Handbook for Active Demolition and Debris Removal.

Fugitive Dust Emission Factors for Debris Loading

Loading of Debris/Building Waste

Parameter	PM_{10}	$PM_{2.5}$
k [a]	0.35	0.053
$EF_{L\text{-}TSP}$ [b]	0.058	0.058
Emission Factor (lbs/ton) [c]	0.020	0.003
Reduction from Watering Every 4 Hours [d]	36%	36%
Emission Factor (Controlled, lbs/ton)	0.013	0.002

Notes:
[a] k taken from Section 13.2.4.3 of AP-42 per Section 4.4 of Appendix A of the CalEEMod User's Guide.
[b] $EF_{L\text{-}TSP}$ taken from Section 4.4 of Appendix A of the CalEEMod User's Guide.
[c] Emission factor calculated using the following equation from Section 4.4 of Appendix A of the CalEEMod User's Guide:

Emission Factor (lbs/ton) = $k \times EF_{L\text{-}TSP}$ (lbs/ton)

[d] Control efficiency taken from Table XI-A of the SCAQMD CEQA Handbook for Active Demolition and Debris Removal.

Table 5.1A.52R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle Usage During Units 3 & 4 Demolition

	Number per Day																										
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Offsite Delivery Trucks [a]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Material Hauling Trucks [b]	1.00	1.00	1.00	1.00	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	3.50	4.50	4.50	4.50	1.00	0.50	0.50	0.50
Waste Hauling Trucks [c]	3.00	4.00	4.00	5.00	5.00	5.00	6.00	6.00	8.00	8.00	11.00	11.00	12.00	13.00	13.00	13.00	13.00	13.00	13.00	9.00	8.00	6.00	5.00	5.00	13.00	13.00	13.00
Construction Worker Commute [d]	13.00	13.00	28.00	40.00	44.00	50.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	46.00	45.00	26.00	23.00	15.00	48.00	48.00	48.00

Notes:

[a] Offsite Delivery Trucks include trucks transporting "Consumables & Supplies", as provided in 'Huntington Beach Truck Deliveries 032112.xls'. Due to the revised, extended construction duration and in the absence of updated engineering data, delivery data for Months 34 through 36 was assumed equal to Month 28.

[b] Material Hauling Trucks include trucks transporting "Fill Material", "Contractor Mobilization", "Contractor Demobilization", and "Construction Equipment", as provided in 'Huntington Beach Truck Deliveries 032112.xls'. Due to the revised, extended construction duration and in the absence of updated engineering data, hauling data for Months 34 through 36 was assumed equal to Month 28.

[c] Waste Hauling Trucks include trucks transporting "Mechanical Equipment", "Electrical Equip. & Mtrls", "Concrete / Rebar / Rubble", and "Steel/Architectural", as provided in 'Huntington Beach Truck Deliveries 032112.xls'.Due to the revised, extended construction duration and in the absence of updated engineering data, hauling data for Months 34 through 36 was assumed equal to Month 28.

[d] Assumed 1 commute per 1 worker; number of workers taken from 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'. Due to the revised, extended construction duration and in the absence of updated engineering data, mahour data for Months 34 through 36 was assumed equal to Month 28.

Offsite Vehicle CO Emissions from Units 3 & 4 Demolition

	CO Emissions (lbs/day)																										
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Offsite Delivery Trucks	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.00	0.07	0.07	0.07
Material Hauling Trucks	0.15	0.15	0.15	0.15	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.53	0.68	0.68	0.68	0.15	0.08	0.08	0.08
Waste Hauling Trucks	0.68	0.91	0.91	1.14	1.14	1.14	1.36	1.36	1.82	1.82	2.50	2.50	2.73	2.96	2.96	2.96	2.96	2.96	2.96	2.05	1.82	1.36	1.14	1.14	2.96	2.96	2.96
Construction Worker Commute	0.89	0.89	1.91	2.73	3.01	3.42	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.14	3.07	1.78	1.57	1.02	3.28	3.28	3.28
Offsite Total (lbs/day)	**1.79**	**2.02**	**3.05**	**4.09**	**4.29**	**4.70**	**4.79**	**4.79**	**5.25**	**5.25**	**5.93**	**5.93**	**6.15**	**6.38**	**6.38**	**6.38**	**6.38**	**6.38**	**6.38**	**5.79**	**5.65**	**3.89**	**3.46**	**2.31**	**6.38**	**6.38**	**6.38**
	CO Emissions (lbs/month)																										
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Offsite Delivery Trucks	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	0.00	1.66	1.66	1.66
Material Hauling Trucks	3.49	3.49	3.49	3.49	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	12.20	15.68	15.68	15.68	3.49	1.74	1.74	1.74
Waste Hauling Trucks	15.68	20.91	20.91	26.14	26.14	26.14	31.37	31.37	41.83	41.83	57.51	57.51	62.74	67.97	67.97	67.97	67.97	67.97	67.97	47.05	41.83	31.37	26.14	26.14	67.97	67.97	67.97
Construction Worker Commute	20.42	20.42	43.99	62.84	69.13	78.56	75.41	75.41	75.41	75.41	75.41	75.41	75.41	75.41	75.41	75.41	75.41	75.41	75.41	72.27	70.70	40.85	36.14	23.57	75.41	75.41	75.41
Offsite Total (lbs/month)	**41.26**	**46.49**	**70.05**	**94.14**	**98.68**	**108.10**	**110.19**	**110.19**	**120.65**	**120.65**	**136.33**	**136.33**	**141.56**	**146.79**	**146.79**	**146.79**	**146.79**	**146.79**	**146.79**	**133.19**	**129.88**	**89.57**	**79.63**	**53.19**	**146.79**	**146.79**	**146.79**
Offsite Total (tons/year)	**0.84**																										

Offsite Vehicle VOC Emissions from Units 3 & 4 Demolition

	VOC Emissions (lbs/day)																										
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Offsite Delivery Trucks	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01
Material Hauling Trucks	0.03	0.03	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.09	0.12	0.12	0.12	0.03	0.01	0.01	0.01
Waste Hauling Trucks	0.12	0.15	0.15	0.19	0.19	0.19	0.23	0.23	0.31	0.31	0.42	0.42	0.46	0.50	0.50	0.50	0.50	0.50	0.50	0.35	0.31	0.23	0.19	0.19	0.50	0.50	0.50
Construction Worker Commute	0.02	0.02	0.04	0.05	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.04	0.03	0.02	0.07	0.07	0.07
Offsite Total (lbs/day)	**0.17**	**0.21**	**0.23**	**0.29**	**0.28**	**0.29**	**0.32**	**0.32**	**0.40**	**0.40**	**0.51**	**0.51**	**0.55**	**0.59**	**0.59**	**0.59**	**0.59**	**0.59**	**0.59**	**0.51**	**0.50**	**0.40**	**0.35**	**0.24**	**0.59**	**0.59**	**0.59**
	VOC Emissions (lbs/month)																										
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Offsite Delivery Trucks	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.00	0.34	0.34	0.34
Material Hauling Trucks	0.59	0.59	0.59	0.59	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	2.06	2.65	2.65	2.65	0.59	0.29	0.29	0.29
Waste Hauling Trucks	2.65	3.53	3.53	4.41	4.41	4.41	5.29	5.29	7.06	7.06	9.71	9.71	10.59	11.47	11.47	11.47	11.47	11.47	11.47	7.94	7.06	5.29	4.41	4.41	11.47	11.47	11.47
Construction Worker Commute	0.41	0.41	0.87	1.25	1.37	1.56	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.44	1.40	0.81	0.72	0.47	1.50	1.50	1.50
Offsite Total (lbs/month)	**3.98**	**4.86**	**5.33**	**6.58**	**6.41**	**6.60**	**7.42**	**7.42**	**9.19**	**9.19**	**11.83**	**11.83**	**12.72**	**13.60**	**13.60**	**13.60**	**13.60**	**13.60**	**13.60**	**11.77**	**11.45**	**9.09**	**8.11**	**5.47**	**13.60**	**13.60**	**13.60**
Offsite Total (tons/year)	**0.08**																										

Offsite Vehicle SOx Emissions from Units 3 & 4 Demolition

	SOx Emissions (lbs/day)																										
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Offsite Delivery Trucks	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0000	0.0005	0.0005	0.0005
Material Hauling Trucks	0.0014	0.0014	0.0014	0.0014	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0048	0.0062	0.0062	0.0062	0.0014	0.0007	0.0007	0.0007
Waste Hauling Trucks	0.0062	0.0082	0.0082	0.0103	0.0103	0.0103	0.0123	0.0123	0.0164	0.0164	0.0226	0.0226	0.0246	0.0267	0.0267	0.0267	0.0267	0.0267	0.0267	0.0185	0.0164	0.0123	0.0103	0.0103	0.0267	0.0267	0.0267
Construction Worker Commute	0.0022	0.0022	0.0047	0.0067	0.0073	0.0083	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0077	0.0075	0.0043	0.0038	0.0025	0.0080	0.0080	0.0080
Offsite Total (lbs/day)	**0.0102**	**0.0123**	**0.0148**	**0.0188**	**0.0188**	**0.0198**	**0.0215**	**0.0215**	**0.0256**	**0.0256**	**0.0318**	**0.0318**	**0.0338**	**0.0359**	**0.0359**	**0.0359**	**0.0359**	**0.0359**	**0.0359**	**0.0315**	**0.0306**	**0.0233**	**0.0208**	**0.0141**	**0.0359**	**0.0359**	**0.0359**
	SOx Emissions (lbs/month)																										
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Offsite Delivery Trucks	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.000	0.013	0.013	0.013
Material Hauling Trucks	0.031	0.031	0.031	0.031	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.110	0.141	0.141	0.141	0.031	0.016	0.016	0.016
Waste Hauling Trucks	0.141	0.189	0.189	0.236	0.236	0.236	0.283	0.283	0.377	0.377	0.519	0.519	0.566	0.613	0.613	0.613	0.613	0.613	0.613	0.424	0.377	0.283	0.236	0.236	0.613	0.613	0.613
Construction Worker Commute	0.050	0.050	0.107	0.153	0.169	0.192	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.176	0.173	0.100	0.088	0.058	0.184	0.184	0.184
Offsite Total (lbs/month)	**0.235**	**0.282**	**0.340**	**0.433**	**0.433**	**0.456**	**0.495**	**0.495**	**0.590**	**0.590**	**0.731**	**0.731**	**0.778**	**0.825**	**0.825**	**0.825**	**0.825**	**0.825**	**0.825**	**0.723**	**0.704**	**0.537**	**0.478**	**0.325**	**0.825**	**0.825**	**0.825**
Offsite Total (tons/year)	**0.005**																										

Table 5.1A.52R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle NOx Emissions from Units 3 & 4 Demolition

	NOx Emissions (lbs/day)																										
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Offsite Delivery Trucks	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.00	0.17	0.17	0.17
Material Hauling Trucks	0.45	0.45	0.45	0.45	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1.40	1.80	1.80	1.80	0.40	0.18	0.18	0.18
Waste Hauling Trucks	2.02	2.69	2.69	3.37	3.37	3.37	4.04	4.04	5.39	5.39	7.41	7.41	7.19	7.79	7.79	7.79	7.79	7.79	7.79	5.39	4.79	3.59	2.99	2.99	6.96	6.96	6.96
Construction Worker Commute	0.08	0.08	0.18	0.26	0.29	0.32	0.31	0.31	0.31	0.31	0.31	0.31	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.15	0.14	0.09	0.26	0.26	0.26
Offsite Total (lbs/day)	**2.77**	**3.44**	**3.54**	**4.29**	**4.09**	**4.13**	**4.79**	**4.79**	**6.14**	**6.14**	**8.16**	**8.16**	**7.86**	**8.46**	**8.46**	**8.46**	**8.46**	**8.46**	**8.46**	**7.25**	**7.04**	**5.73**	**5.12**	**3.48**	**7.56**	**7.56**	**7.56**
	NOx Emissions (lbs/month)																										
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Offsite Delivery Trucks	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	0.00	3.84	3.84	3.84
Material Hauling Trucks	10.32	10.32	10.32	10.32	5.16	5.16	5.16	5.16	5.16	5.16	5.16	5.16	4.59	4.59	4.59	4.59	4.59	4.59	4.59	32.14	41.32	41.32	41.32	9.18	4.10	4.10	4.10
Waste Hauling Trucks	46.46	61.94	61.94	77.43	77.43	77.43	92.91	92.91	123.88	123.88	170.34	170.34	165.29	179.06	179.06	179.06	179.06	179.06	179.06	123.97	110.19	82.64	68.87	68.87	160.00	160.00	160.00
Construction Worker Commute	1.94	1.94	4.18	5.97	6.57	7.46	7.16	7.16	7.16	7.16	7.16	7.16	6.55	6.55	6.55	6.55	6.55	6.55	6.55	6.27	6.14	3.55	3.14	2.05	5.97	5.97	5.97
Offsite Total (lbs/month)	**63.62**	**79.11**	**81.35**	**98.62**	**94.06**	**94.95**	**110.14**	**110.14**	**141.11**	**141.11**	**187.57**	**187.57**	**180.75**	**194.53**	**194.53**	**194.53**	**194.53**	**194.53**	**194.53**	**166.70**	**161.98**	**131.84**	**117.65**	**80.10**	**173.91**	**173.91**	**173.91**
Offsite Total (tons/year)	**1.096**																										

Offsite Vehicle PM_{10} Emissions from Units 3 & 4 Demolition

	PM_{10} Emissions (lbs/day) [a]																										
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Offsite Delivery Trucks	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00	0.02	0.02	0.02
Material Hauling Trucks	0.05	0.05	0.05	0.05	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.16	0.21	0.21	0.21	0.05	0.02	0.02	0.02
Waste Hauling Trucks	0.21	0.28	0.28	0.35	0.35	0.35	0.43	0.43	0.57	0.57	0.78	0.78	0.83	0.89	0.89	0.89	0.89	0.89	0.89	0.62	0.55	0.41	0.34	0.34	0.87	0.87	0.87
Construction Worker Commute	0.21	0.21	0.44	0.63	0.70	0.79	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.73	0.71	0.41	0.36	0.24	0.76	0.76	0.76
Offsite Total (lbs/day)	**0.49**	**0.56**	**0.79**	**1.06**	**1.10**	**1.19**	**1.23**	**1.23**	**1.37**	**1.37**	**1.58**	**1.58**	**1.63**	**1.70**	**1.70**	**1.70**	**1.70**	**1.70**	**1.70**	**1.53**	**1.49**	**1.05**	**0.93**	**0.63**	**1.67**	**1.67**	**1.67**
	PM_{10} Emissions (lbs/month) [a]																										
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Offsite Delivery Trucks	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.00	0.41	0.41	0.41
Material Hauling Trucks	1.09	1.09	1.09	1.09	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.53	0.53	0.53	0.53	0.53	0.53	0.53	3.69	4.75	4.75	4.75	1.05	0.51	0.51	0.51
Waste Hauling Trucks	4.90	6.53	6.53	8.16	8.16	8.16	9.79	9.79	13.06	13.06	17.95	17.95	18.98	20.57	20.57	20.57	20.57	20.57	20.57	14.24	12.66	9.49	7.91	7.91	20.01	20.01	20.01
Construction Worker Commute	4.74	4.74	10.21	14.59	16.05	18.23	17.51	17.51	17.51	17.51	17.51	17.51	17.52	17.52	17.52	17.52	17.52	17.52	17.52	16.79	16.42	9.49	8.39	5.47	17.52	17.52	17.52
Offsite Total (lbs/month)	**11.17**	**12.80**	**18.27**	**24.28**	**25.19**	**27.38**	**28.28**	**28.28**	**31.55**	**31.55**	**36.45**	**36.45**	**37.45**	**39.03**	**39.03**	**39.03**	**39.03**	**39.03**	**39.03**	**35.14**	**34.25**	**24.15**	**21.47**	**14.44**	**38.45**	**38.45**	**38.45**
Offsite Total (tons/year)	**0.223**																										

Notes:
[a] PM_{10} Emissions include emissions from exhaust and paved roads.

Offsite Vehicle $PM_{2.5}$ Emissions from Units 3 & 4 Demolition

	$PM_{2.5}$ Emissions (lbs/day) [a]																										
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Offsite Delivery Trucks	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01
Material Hauling Trucks	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.08	0.10	0.10	0.10	0.02	0.01	0.01	0.01
Waste Hauling Trucks	0.11	0.14	0.14	0.18	0.18	0.18	0.21	0.21	0.28	0.28	0.39	0.39	0.40	0.43	0.43	0.43	0.43	0.43	0.43	0.30	0.27	0.20	0.17	0.17	0.41	0.41	0.41
Construction Worker Commute	0.06	0.06	0.12	0.18	0.20	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.12	0.10	0.07	0.21	0.21	0.21
Offsite Total (lbs/day)	**0.20**	**0.23**	**0.30**	**0.39**	**0.39**	**0.42**	**0.45**	**0.45**	**0.52**	**0.52**	**0.62**	**0.62**	**0.63**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.59**	**0.57**	**0.42**	**0.38**	**0.25**	**0.64**	**0.64**	**0.64**
	$PM_{2.5}$ Emissions (lbs/month) [a]																										
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Offsite Delivery Trucks	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.00	0.20	0.20	0.20
Material Hauling Trucks	0.54	0.54	0.54	0.54	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1.78	2.29	2.29	2.29	0.51	0.24	0.24	0.24
Waste Hauling Trucks	2.42	3.23	3.23	4.04	4.04	4.04	4.85	4.85	6.46	6.46	8.89	8.89	9.15	9.91	9.91	9.91	9.91	9.91	9.91	6.86	6.10	4.57	3.81	3.81	9.40	9.40	9.40
Construction Worker Commute	1.33	1.33	2.86	4.08	4.49	5.10	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.69	4.59	2.65	2.35	1.53	4.90	4.90	4.90
Offsite Total (lbs/month)	**4.52**	**5.33**	**6.86**	**8.89**	**9.03**	**9.64**	**10.24**	**10.24**	**11.86**	**11.86**	**14.28**	**14.28**	**14.51**	**15.27**	**15.27**	**15.27**	**15.27**	**15.27**	**15.27**	**13.54**	**13.19**	**9.73**	**8.66**	**5.85**	**14.73**	**14.73**	**14.73**
Offsite Total (tons/year)	**0.087**																										

Notes:
[a] $PM_{2.5}$ Emissions include emissions from exhaust and paved roads.

Offsite Vehicle CO_2 Emissions from Units 3 & 4 Demolition

	CO_2 Emissions (metric tons/day)																										
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Offsite Delivery Trucks	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.00	0.03	0.03	0.03
Material Hauling Trucks	0.07	0.07	0.07	0.07	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.23	0.30	0.30	0.30	0.07	0.03	0.03	0.03
Waste Hauling Trucks	0.30	0.39	0.39	0.49	0.49	0.49	0.59	0.59	0.79	0.79	1.08	1.08	1.18	1.28	1.28	1.28	1.28	1.28	1.28	0.89	0.79	0.59	0.49	0.49	1.28	1.28	1.28
Construction Worker Commute	0.09	0.09	0.19	0.28	0.31	0.35	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.32	0.31	0.18	0.16	0.10	0.33	0.33	0.33
Offsite Total (metric tons/day)	**0.48**	**0.58**	**0.68**	**0.86**	**0.86**	**0.90**	**0.98**	**0.98**	**1.18**	**1.18**	**1.47**	**1.47**	**1.57**	**1.67**	**1.67**	**1.67**	**1.67**	**1.67**	**1.67**	**1.46**	**1.42**	**1.09**	**0.97**	**0.66**	**1.67**	**1.67**	**1.67**
	CO_2 Emissions (metric tons/month)																										
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Offsite Delivery Trucks	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.00	0.60	0.60	0.60
Material Hauling Trucks	1.51	1.51	1.51	1.51	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	5.28	6.79	6.79	6.79	1.51	0.75	0.75	0.75
Waste Hauling Trucks	6.79	9.06	9.06	11.32	11.32	11.32	13.58	13.58	18.11	18.11	24.90	24.90	27.17	29.43	29.43	29.43	29.43	29.43	29.43	20.38	18.11	13.58	11.32	11.32	29.43	29.43	29.43
Construction Worker Commute	2.08	2.08	4.47	6.39	7.02	7.98	7.66	7.66	7.66	7.66	7.66	7.66	7.66	7.66	7.66	7.66	7.66	7.66	7.66	7.34	7.18	4.15	3.67	2.39	7.66	7.66	7.66
Offsite Total (metric tons/month)	**10.97**	**13.24**	**15.63**	**19.81**	**19.69**	**20.65**	**22.60**	**22.60**	**27.13**	**27.13**	**33.92**	**33.92**	**36.18**	**38.44**	**38.44**	**38.44**	**38.44**	**38.44**	**38.44**	**33.60**	**32.68**	**25.12**	**22.38**	**15.22**	**38.44**	**38.44**	**38.44**
Offsite Total (metric tons/year)	**428.1**																										

Table 5.1A.52R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle N_2O Emissions from Units 3 & 4 Demolition

	N_2O Emissions (metric tons/day)																										
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Offsite Delivery Trucks	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000000	0.00000007	0.00000007	0.00000007
Material Hauling Trucks	0.00000019	0.00000019	0.00000019	0.00000019	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000067	0.00000086	0.00000086	0.00000086	0.00000019	0.00000010	0.00000010	0.00000010
Waste Hauling Trucks	0.00000086	0.00000115	0.00000115	0.00000144	0.00000144	0.00000144	0.00000173	0.00000173	0.00000230	0.00000230	0.00000317	0.00000317	0.00000346	0.00000374	0.00000374	0.00000374	0.00000374	0.00000374	0.00000374	0.00000259	0.00000230	0.00000173	0.00000144	0.00000144	0.00000374	0.00000374	0.00000374
Construction Worker Commute	0.00000101	0.00000101	0.00000218	0.00000311	0.00000342	0.00000389	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000358	0.00000350	0.00000202	0.00000179	0.00000117	0.00000373	0.00000373	0.00000373
Offsite Total (metric tons/day)	**0.00000214**	**0.00000242**	**0.00000359**	**0.00000481**	**0.00000503**	**0.00000549**	**0.00000563**	**0.00000563**	**0.00000620**	**0.00000620**	**0.00000707**	**0.00000707**	**0.00000735**	**0.00000764**	**0.00000764**	**0.00000764**	**0.00000764**	**0.00000764**	**0.00000764**	**0.00000691**	**0.00000674**	**0.00000468**	**0.00000416**	**0.00000280**	**0.00000764**	**0.00000764**	**0.00000764**
	N_2O Emissions (metric tons/month)																										
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Offsite Delivery Trucks	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000000	0.0000016	0.0000016	0.0000016
Material Hauling Trucks	0.0000044	0.0000044	0.0000044	0.0000044	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000155	0.0000199	0.0000199	0.0000199	0.0000044	0.0000022	0.0000022	0.0000022
Waste Hauling Trucks	0.0000199	0.0000265	0.0000265	0.0000331	0.0000331	0.0000331	0.0000397	0.0000397	0.0000530	0.0000530	0.0000729	0.0000729	0.0000795	0.0000861	0.0000861	0.0000861	0.0000861	0.0000861	0.0000861	0.0000596	0.0000530	0.0000397	0.0000331	0.0000331	0.0000861	0.0000861	0.0000861
Construction Worker Commute	0.0000233	0.0000233	0.0000501	0.0000715	0.0000787	0.0000894	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000823	0.0000805	0.0000465	0.0000411	0.0000268	0.0000858	0.0000858	0.0000858
Offsite Total (metric tons/month)	**0.0000492**	**0.0000558**	**0.0000826**	**0.0001107**	**0.0001156**	**0.0001264**	**0.0001294**	**0.0001294**	**0.0001427**	**0.0001427**	**0.0001625**	**0.0001625**	**0.0001692**	**0.0001758**	**0.0001758**	**0.0001758**	**0.0001758**	**0.0001758**	**0.0001758**	**0.0001590**	**0.0001550**	**0.0001077**	**0.0000957**	**0.0000644**	**0.0001758**	**0.0001758**	**0.0001758**
Offsite Total (metric tons/year)	**0.00201**																										

Offsite Vehicle CH_4 Emissions from Units 3 & 4 Demolition

	CH_4 Emissions (metric tons/day)																										
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Offsite Delivery Trucks	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000000	0.00000007	0.00000007	0.00000007
Material Hauling Trucks	0.00000020	0.00000020	0.00000020	0.00000020	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000071	0.00000092	0.00000092	0.00000092	0.00000020	0.00000010	0.00000010	0.00000010
Waste Hauling Trucks	0.00000092	0.00000122	0.00000122	0.00000153	0.00000153	0.00000153	0.00000184	0.00000184	0.00000245	0.00000245	0.00000337	0.00000337	0.00000367	0.00000398	0.00000398	0.00000398	0.00000398	0.00000398	0.00000398	0.00000275	0.00000245	0.00000184	0.00000153	0.00000153	0.00000398	0.00000398	0.00000398
Construction Worker Commute	0.00000486	0.00000486	0.00001046	0.00001495	0.00001644	0.00001868	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001719	0.00001682	0.00000972	0.00000859	0.00000561	0.00001794	0.00001794	0.00001794
Offsite Total (metric tons/day)	**0.00000605**	**0.00000636**	**0.00001197**	**0.00001676**	**0.00001815**	**0.00002039**	**0.00001995**	**0.00001995**	**0.00002056**	**0.00002056**	**0.00002148**	**0.00002148**	**0.00002179**	**0.00002209**	**0.00002209**	**0.00002209**	**0.00002209**	**0.00002209**	**0.00002209**	**0.00002073**	**0.00002026**	**0.00001254**	**0.00001112**	**0.00000734**	**0.00002209**	**0.00002209**	**0.00002209**
	CH_4 Emissions (metric tons/month)																										
Vehicle Type	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**
Offsite Delivery Trucks	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000000	0.0000017	0.0000017	0.0000017
Material Hauling Trucks	0.0000047	0.0000047	0.0000047	0.0000047	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000164	0.0000211	0.0000211	0.0000211	0.0000047	0.0000023	0.0000023	0.0000023
Waste Hauling Trucks	0.0000211	0.0000282	0.0000282	0.0000352	0.0000352	0.0000352	0.0000422	0.0000422	0.0000563	0.0000563	0.0000774	0.0000774	0.0000845	0.0000915	0.0000915	0.0000915	0.0000915	0.0000915	0.0000915	0.0000633	0.0000563	0.0000422	0.0000352	0.0000352	0.0000915	0.0000915	0.0000915
Construction Worker Commute	0.0001117	0.0001117	0.0002406	0.0003438	0.0003782	0.0004297	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0003954	0.0003868	0.0002235	0.0001977	0.0001289	0.0004125	0.0004125	0.0004125
Offsite Total (metric tons/month)	**0.0001392**	**0.0001463**	**0.0002752**	**0.0003854**	**0.0004174**	**0.0004690**	**0.0004588**	**0.0004588**	**0.0004729**	**0.0004729**	**0.0004940**	**0.0004940**	**0.0005011**	**0.0005081**	**0.0005081**	**0.0005081**	**0.0005081**	**0.0005081**	**0.0005081**	**0.0004768**	**0.0004659**	**0.0002885**	**0.0002557**	**0.0001688**	**0.0005081**	**0.0005081**	**0.0005081**
Offsite Total (metric tons/year)	**0.00596**																										

Offsite Construction Vehicle Activity for Units 3 & 4 Demolition

Vehicle Type	**Roundtrip Miles/Day [a]**	**Working Days per Month [b]**
Offsite Delivery Trucks	14.6	23
Material Hauling Trucks	40.0	23
Waste Hauling Trucks	60.0	23
Construction Worker Commute	21.6	23

Notes:

[a] Roundtrip miles/day taken as the CalEEMod defaults for the South Coast Air Basin except for Waste Hauling Trucks, which were assumed to travel directly to the the landfill for offsite waste disposal.

[b] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Table 5.1A.53R Equations Used to Calculate Criteria Pollutant and GHG Emissions

Equations Used to Calculate Emissions from Units 3 & 4 Demolition

Emission Source	Pollutant(s)	Equation	Variables
Construction Equipment Exhaust	CO, VOC, NOx, SOx, PM_{10}, and $PM_{2.5}$	$E_m = EF * N * Hp * L * H / 453.6$	E_m = Emissions (lbs/month)
			EF = Emission factor (g/bhp-hr)
			N = Number of pieces of equipment
			Hp = Average horsepower
			L = Average load factor
			H = Hours per month
			453.6 = Conversion from g to lbs
		$E_d = E_m / D$	E_d = Emissions (lbs/day)
			E_m = Emissions (lbs/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons
	CO_2	$E_m = N * FC * EF * H * 0.001$	E_m = Emissions (metric tons/month)
			N = Number of pieces of equipment
			FC = Fuel consumption (gallons/hour)
			EF = Emission factor (kg/gallon)
			H = Hours per month
			0.001 = Conversion from kg to metric tons
		$E_d = E_m / D$	E_d = Emissions (metric tons/day)
			E_m = Emissions (metric tons/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
	CH_4 and N_2O	$E_m = N * FC * EF * H / 1{,}000 * 0.001$	E_m = Emissions (metric tons/month)
			N = Number of pieces of equipment
			FC = Fuel consumption (gallons/hour)
			EF = Emission factor (g/gallon)
			H = Hours per month
			1,000 = Conversion from g to kg
			0.001 = Conversion from kg to metric tons
		$E_d = E_m / D$	E_d = Emissions (metric tons/day)
			E_m = Emissions (metric tons/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
Onsite and Offsite Vehicle Exhaust and Paved and Unpaved Road Fugitive PM_{10} and $PM_{2.5}$	CO, VOC, NOx, SOx, PM_{10}, and $PM_{2.5}$	$E_d = N * VMT * EF / 453.6$	E_d = Emissions (lbs/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			EF = EMFAC2007 emission factor (g/mile). Paved and unpaved road fugitive PM_{10} and $PM_{2.5}$ emission factors calculated per Sections 13.2.1 and 13.2.2 of AP-42, respectively.
			453.6 = Conversion from g to lbs
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons

Table 5.1A.53R Equations Used to Calculate Criteria Pollutant and GHG Emissions

Equations Used to Calculate Emissions from Units 3 & 4 Demolition

Emission Source	Pollutant(s)	Equation	Variables
Onsite and Offsite Vehicle Exhaust	CO_2	$E_d = N * VMT / FE * EF * 0.001$	E_d = Emissions (metric tons/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			FE = Fuel economy (mpg)
			EF = Emission factor (kg/gallon)
			0.001 = Conversion from kg to metric tons
		$E_m = E_d * D$	E_m = Emissions (metric tons/month)
			E_d = Emissions (metric tons/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
	CH_4 and N_2O	$E_d = N * VMT * EF / 1{,}000 * 0.001$	E_d = Emissions (metric tons/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			EF = Emission factor (g/mile)
			1,000 = Conversion from g to kg
			0.001 = Conversion from kg to metric tons
		$E_m = E_d * D$	E_m = Emissions (metric tons/month)
			E_d = Emissions (metric tons/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
Onsite Fugitive PM_{10} and $PM_{2.5}$ from Dismemberment and Debris Loading	PM_{10} and $PM_{2.5}$	$E_d = T * EF / D$	E_d = Emissions (lbs/day)
			T = Tons of material dismembered or loaded
			EF = Fugitive PM_{10} and $PM_{2.5}$ emission factors (lbs/ton), calculated per Section 13.2.4.3 of AP-42 for dismemberment and Section 4.4 of Appendix A of the CalEEMod User's Guide for debris loading.
			D = Number of construction days per month
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons

Huntington Beach Energy Project
Construction Emission Estimates - Units 3 and 4 Demolition
April 2014

Table 5.1A.54R Number of Onsite Construction Equipment and Motor Vehicles

Number of Onsite Equipment for Units 3 & 4 Demolition

Onsite Equipment	Number per Month [a]																									
	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Water Truck	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cranes [b]	1	1	1	1	1	1	1	1	2	2	3	3	3	3	2	2	2	2	2	2	2	2	2	2	3	3	3
Rubber Tired Loader	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2
Air Compressor	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Forklift	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Excavator	0	0	0	0	0	0	0	0	2	2	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

Notes:

[a] Equipment counts taken from 'HBEP Equipment Usage 1.21.13.xls'.

[b] Numbers presented for Cranes includes the equipment counts for the 75 Ton Hydraulic Crane and the 35 Ton Hydraulic Crane.

Number of Onsite Motor Vehicles for Units 3 & 4 Demolition

Vehicle Type	Number per Month [a]																									
	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Onsite Pick-up Truck	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Onsite Stake Truck	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Onsite Dump Truck	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Notes:

[a] Vehicle counts taken from 'HBEP Equipment Usage 1.21.13.xls'.

Huntington Beach Energy Project
Construction Emission Estimates - Units 3 and 4 Demolition
April 2014

Table 5.1A.55R Construction Equipment Exhaust Criteria Pollutant Emission Factors

Construction Equipment Emission Factors for Units 3 & 4 Demolition

Equipment [a]	Percent Usage [b]	Hours per Month [c]	Horsepower [d]	Load Factor [d]	Emission Factors (g/bhp-hr) [e]												Fuel Consumption (gallons/hour) [f]
					CO	VOC	NO_X 2016	NO_X 2017	NO_X 2018	SO_X	PM_{10} 2016	PM_{10} 2017	PM_{10} 2018	$PM_{2.5}$ 2016	$PM_{2.5}$ 2017	$PM_{2.5}$ 2018	
Water Truck [g]	50%	115	381	0.57	1.209	0.387	2.613	2.302	2.025	0.005	0.093	0.082	0.073	0.093	0.082	0.073	12.33
Cranes	65%	150	208	0.43	1.334	0.443	3.818	3.462	3.125	0.006	0.131	0.118	0.107	0.131	0.118	0.107	5.08
Rubber Tired Loader	55%	127	87	0.54	3.919	0.745	4.657	4.302	3.975	0.006	0.373	0.333	0.296	0.373	0.333	0.296	2.69
Air Compressor	80%	184	78	0.48	3.804	0.744	4.790	4.412	4.050	0.006	0.397	0.350	0.304	0.397	0.350	0.304	2.15
Forklift	75%	173	149	0.30	3.362	0.456	3.062	2.696	2.338	0.006	0.166	0.145	0.124	0.166	0.145	0.124	2.55
Excavator	85%	196	157	0.57	3.366	0.492	3.323	2.928	2.567	0.006	0.179	0.155	0.133	0.179	0.155	0.133	5.11

Notes:

[a] Assumed all equipment is fired with diesel fuel, per Section 4.2 of Appendix A of the CalEEMod User's Guide.

[b] Percent Usage assumed typical of power plant construction.

[c] Hours per month calculated based on the following schedule, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Work hours per day: 10
Work days per month: 23

[d] Construction equipment horsepower and load factor taken from Table 3.3 of Appendix D of the CalEEMod User's Guide.

[e] Construction equipment emission factors taken from Table 3.4 of Appendix D of the CalEEMod User's Guide. The emission factors for the year 2016 were used for the construction equipment exhaust emission calculations for CO, VOC, and SOx. The emission factors for year 2016, 2017 and 2018 were used for NOx, PM10, and PM2.5.

[f] Fuel consumption based on consumption in the OFFROAD2007 model for the SCAB in the year 2016; value estimated by dividing the reported consumption (gallons/day) by the reported activity (hours/day).

[g] Horsepower, load factor, and emission factors for Off-Highway Trucks were assumed representative of Water Trucks.

Huntington Beach Energy Project
Construction Emission Estimates - Units 3 and 4 Demolition
April 2014

Table 5.1A.56R Onsite and Offsite Motor Vehicle Criteria Pollutant Emission Factors

Vehicle Emission Factors for Units 3 & 4 Demolition

Vehicle Type	Vehicle Class [a]	Exhaust Emission Factors (g/mile) [b]												Paved Road Emission Factors (g/mile) [c]		Fuel Economy (mpg) [b]
		CO	VOC	SO_X	NO_X 2016	NO_X 2017	NO_X 2018	PM_{10} 2016	PM_{10} 2017	PM_{10} 2018	$PM_{2.5}$ 2016	$PM_{2.5}$ 2017	$PM_{2.5}$ 2018	PM_{10}	$PM_{2.5}$	
Onsite Pick-up Truck	Light-duty Truck	3.508	0.235	0.011	0.327	0.301	0.278	0.123	0.124	0.126	0.101	0.103	0.104	N/A	N/A	7.440
Onsite Stake Truck	Heavy-duty Diesel	10.786	6.276	0.037	18.687	16.645	14.934	1.007	0.843	0.709	0.889	0.738	0.614	N/A	N/A	2.621
Onsite Dump Truck	Heavy-duty Diesel	10.786	6.276	0.037	18.687	16.645	14.934	1.007	0.843	0.709	0.889	0.738	0.614	N/A	N/A	2.621
Offsite Delivery Trucks	Heavy-duty Diesel	2.249	0.453	0.017	6.621	5.842	5.193	0.297	0.270	0.248	0.235	0.211	0.190	0.300	0.075	5.749
Material Hauling Trucks	Heavy/Medium-duty Diesel	1.719	0.290	0.016	5.090	4.528	4.046	0.236	0.220	0.206	0.191	0.176	0.163	0.300	0.075	6.224
Waste Hauling Trucks	Heavy/Medium-duty Diesel	1.719	0.290	0.016	5.090	4.528	4.046	0.236	0.220	0.206	0.191	0.176	0.163	0.300	0.075	6.224
Construction Worker Commute	Light-duty Auto/Truck	1.435	0.029	0.004	0.136	0.125	0.114	0.033	0.033	0.033	0.018	0.018	0.018	0.300	0.075	27.325

Notes:

[a] The vehicle classes are represented as follows:

Light-duty Truck: Assumed to be an average of LDT1, All and LDT2, All values.
Heavy-duty Diesel: Assumed to be 100% HHD DSL values, as confirmed in Section 4.5 of Appendix A of the CalEEMod User's Guide.
Heavy/Medium-duty Diesel: 50% HHD DSL and 50% MHD DSL values, per Section 4.5 of Appendix A of the CalEEMod User's Guide.
Light-duty Auto/Truck: 50% LDA, All; 25% LDT1, All; and 25% LDT2, All values, per Section 4.5 of Appendix A of the CalEEMod User's Guide.

[b] Exhaust emission factors and fuel economy from EMFAC2007 for the South Coast Air Basin, calendar year 2016 for CO, VOC, and SOx. Calendar year 2016, 2017 and 2018 were used for NOx, PM10, and PM2.5. A speed of 5 mph was assumed for onsite vehicles; a speed of 40 mph was assumed for offsite vehicles and worker commutes, which is consistent with the CalEEMod defaults. An average temperature of 68°F and humidity of 55% were used per Table B-1 of CT-EMFAC: A Computer Model to Estimate Transportation Project Emissions.

[c] Paved road emission factors calculated using CalEEMod methodology, as described below.

Derivation of Paved Road Emission Factors

Vehicles on Paved Roads

Parameter	PM_{10}	$PM_{2.5}$
Average Weight [a]	2.4	2.4
k [b]	1.0	0.25
sL [a]	0.1	0.1
Emission Factor (g/mile) [c]	0.300	0.075

Notes:

[a] Average Weight and sL taken as the default value from CalEEMod.

[b] k taken from Table 13.2.1-1 of Section 13.2.1 of AP-42.

[c] Emission factor calculated using Equation 1 from Section 13.2.1 of AP-42:

$$\text{Emission Factor (g/mile)} = k \text{ (g/mile)} \times [\text{sL (g/m}^2)]^{0.91} \times [\text{Average Weight (tons)}]^{1.02}$$

Huntington Beach Energy Project
Construction Emission Estimates - Units 3 and 4 Demolition
April 2014

Table 5.1A.57R Onsite and Offsite Greenhouse Gas Emission Factors

Greenhouse Gas Emission Factors for Units 3 & 4 Demolition

Fuel / Category Type	Emission Factor	Emission Factor Units	Emission Factor Source
CO_2 Emission Factors			
Gasoline	8.78	kg CO_2/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.1, May 2008 as updated through January 2012.
Diesel	10.21	kg CO_2/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.1, May 2008 as updated through January 2012.
N_2O Emission Factors			
Gasoline Passenger Car Model Year 2009 [a]	0.0036	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Gasoline Light-duty Truck Model Year 2009 [a]	0.0066	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Heavy-duty Truck Model Year 1960 - 2009 [a]	0.0048	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Off-road Vehicle	0.26	g N_2O/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.7, May 2008 as updated through January 2012.
CH_4 Emission Factors			
Gasoline Passenger Car Model Year 2009 [a]	0.0173	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Gasoline Light-duty Truck Model Year 2009 [a]	0.0163	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Heavy-duty Truck Model Year 1960 - 2009 [a]	0.0051	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Off-road Vehicle	0.58	g CH_4/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.7, May 2008 as updated through January 2012.

Notes:

[a] Model Year 2009 was the most recent year of emission factors available. As a result, it was assumed representative of vehicles used for this project.

Huntington Beach Energy Project
Construction Emission Estimates - Cumulative Project
April 2014

Table 5.1A.58R Onsite Construction
Exhaust and Fugitive Emissions Summary

Onsite CO Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)	642.06	642.06	640.80	811.24	868.31	868.31	868.31	868.31	998.25	957.75	957.75	963.80	1,098.33	1,098.33	1,098.33																				
Total (lbs/day)	27.92	27.92	27.86	35.27	37.75	37.75	37.75	37.75	43.40	41.64	41.64	41.90	47.75	47.75	47.75																				
Units 3 & 4 Demolition																																			
Total (lbs/month)										222.26	222.26	222.26	222.26	222.26	222.26	222.26	222.26	630.90	630.90	857.20	857.20	987.03	987.03	947.71	947.71	947.71	947.71	947.71	947.71	947.71	947.71	947.71	947.71	1,038.38	1,038.38
Total (lbs/day)										9.66	9.66	9.66	9.66	9.66	9.66	9.66	9.66	27.43	27.43	37.27	37.27	42.91	42.91	41.20	41.20	41.20	41.20	41.20	41.20	41.20	41.20	41.20	41.20	45.15	45.15
Block 1 Construction																																			
Total (lbs/month)																1,292.23	1,292.23	1,153.77	1,232.42	820.88	603.94	682.04	682.04	721.36	721.36	680.95	680.95	720.27	590.44	551.12	551.12	551.12	472.47	472.47
Total (lbs/day)																56.18	56.18	50.16	53.58	35.69	26.26	29.65	29.65	31.36	31.36	29.61	29.61	31.32	25.67	23.96	23.96	23.96	23.96	20.54	20.54
Block 2 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 1 & 2 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite CO Emissions (Construction Equipment and Vehicles)																																			
Pounds per Month	**642.06**	**642.06**	**640.80**	**811.24**	**868.31**	**868.31**	**868.31**	**868.31**	**998.25**	**1,180.01**	**1,180.01**	**1,186.06**	**1,320.59**	**1,320.59**	**1,320.59**	**1,514.49**	**1,514.49**	**1,784.67**	**1,863.32**	**1,678.08**	**1,461.14**	**1,669.07**	**1,669.07**	**1,669.07**	**1,669.07**	**1,628.65**	**1,628.65**	**1,667.98**	**1,538.15**	**1,498.83**	**1,498.83**	**1,498.83**	**1,498.83**	**1,510.85**	**1,510.85**
Pounds per Day	**27.92**	**27.92**	**27.86**	**35.27**	**37.75**	**37.75**	**37.75**	**37.75**	**43.40**	**51.30**	**51.30**	**51.57**	**57.42**	**57.42**	**57.42**	**65.85**	**65.85**	**77.59**	**81.01**	**72.96**	**63.53**	**72.57**	**72.57**	**72.57**	**72.57**	**70.81**	**70.81**	**72.52**	**66.88**	**65.17**	**65.17**	**65.17**	**65.17**	**65.69**	**65.69**
Yearly Maximums	**10,754**	**11,432**	**12,111**	**12,791**	**13,494**	**14,140**	**15,056**	**16,051**	**16,861**	**17,324**	**17,813**	**18,302**	**18,785**	**19,134**	**19,442**	**19,750**	**19,903**	**19,927**	**19,641**	**19,277**	**19,097**	**19,135**	**18,977**	**18,819**	**19,015**	**18,934**	**18,894**	**18,529**	**18,120**	**17,619**	**16,974**	**16,327**	**15,870**	**15,451**	**14,610**

Maximum Pounds per Day	**81.11**
Maximum Pounds per Hour [a]	**8.11**
Maximum Pounds per Month	**1,865.47**
Month with Maximum	**36**
Maximum Pounds per Year	**19,927**
Maximum Average Pounds per Hour [b]	**2.27**
Year with Maximum	**Months 18 - 29**
Tons per Year	**9.96**

Onsite VOC Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)	133.40	133.40	144.82	179.14	187.42	187.42	187.42	187.42	207.94	194.14	194.14	198.92	222.77	222.77	222.77																				
Total (lbs/day)	5.80	5.80	6.30	7.79	8.15	8.15	8.15	8.15	9.04	8.44	8.44	8.65	9.69	9.69	9.69																				
Units 3 & 4 Demolition																																			
Total (lbs/month)										54.08	54.08	54.08	54.08	54.08	54.08	54.08	54.08	126.47	126.47	166.25	166.25	185.23	185.23	172.17	172.17	172.17	172.17	172.17	172.17	172.17	172.17	172.17	172.17	194.99	194.99
Total (lbs/day)										2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	5.50	5.50	7.23	7.23	8.05	8.05	7.49	7.49	7.49	7.49	7.49	7.49	7.49	7.49	7.49	7.49	8.48	8.48
Block 1 Construction																																			
Total (lbs/month)																235.92	235.92	206.45	232.57	161.54	122.85	148.65	148.65	161.71	161.71	148.01	148.01	161.07	142.09	129.03	129.03	129.03	129.03	102.92	102.92
Total (lbs/day)																10.26	10.26	8.98	10.11	7.02	5.34	6.46	6.46	7.03	7.03	6.44	6.44	7.00	6.18	5.61	5.61	5.61	5.61	4.47	4.47
Block 2 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 1 & 2 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite VOC Emissions (Construction Equipment and Vehicles)																																			
Pounds per Month	**133.40**	**133.40**	**144.82**	**179.14**	**187.42**	**187.42**	**187.42**	**187.42**	**207.94**	**248.22**	**248.22**	**253.00**	**276.85**	**276.85**	**276.85**	**290.00**	**290.00**	**332.92**	**359.03**	**327.79**	**289.10**	**333.88**	**333.88**	**333.88**	**333.88**	**320.18**	**320.18**	**333.24**	**314.26**	**301.21**	**301.21**	**301.21**	**301.21**	**297.91**	**297.91**
Pounds per Day	**5.80**	**5.80**	**6.30**	**7.79**	**8.15**	**8.15**	**8.15**	**8.15**	**9.04**	**10.79**	**10.79**	**11.00**	**12.04**	**12.04**	**12.04**	**12.61**	**12.61**	**14.47**	**15.61**	**14.25**	**12.57**	**14.52**	**14.52**	**14.52**	**14.52**	**13.92**	**13.92**	**14.49**	**13.66**	**13.10**	**13.10**	**13.10**	**13.10**	**12.95**	**12.95**
Yearly Maximums	**2,298**	**2,441**	**2,585**	**2,717**	**2,828**	**2,930**	**3,076**	**3,247**	**3,388**	**3,469**	**3,554**	**3,640**	**3,721**	**3,778**	**3,821**	**3,865**	**3,908**	**3,932**	**3,901**	**3,843**	**3,816**	**3,828**	**3,792**	**3,756**	**3,783**	**3,727**	**3,684**	**3,586**	**3,473**	**3,345**	**3,214**	**3,083**	**2,985**	**2,899**	**2,730**

Maximum Pounds per Day	**15.69**
Maximum Pounds per Hour [a]	**1.57**
Maximum Pounds per Month	**360.92**
Month with Maximum	**36**
Maximum Pounds per Year	**3,932**
Maximum Average Pounds per Hour [b]	**0.45**
Year with Maximum	**Months 18-29**
Tons per Year	**1.97**

Onsite NOx Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)	894.53	894.53	1,018.01	1,286.40	1,345.15	1,345.15	1,345.15	1,345.15	1,489.83	1,231.65	1,231.65	1,259.93	1,418.47	1,418.47	1,418.47																				
Total (lbs/day)	38.89	38.89	44.26	55.93	58.48	58.48	58.48	58.48	64.78	53.55	53.55	54.78	61.67	61.67	61.67																				
Units 3 & 4 Demolition																																			
Total (lbs/month)										383.14	383.14	383.14	383.14	383.14	383.14	383.14	383.14	886.73	886.73	1,179.50	1,179.50	1,169.23	1,169.23	1,067.18	1,067.18	1,067.18	1,067.18	1,067.18	1,067.18	1,067.18	1,067.18	1,067.18	1,067.18	1,092.85	1,092.85
Total (lbs/day)										16.66	16.66	16.66	16.66	16.66	16.66	16.66	16.66	38.55	38.55	51.28	51.28	50.84	50.84	46.40	46.40	46.40	46.40	46.40	46.40	46.40	46.40	46.40	46.40	47.52	47.52
Block 1 Construction																																			
Total (lbs/month)																1,441.95	1,441.95	1,263.68	1,488.78	1,103.48	858.06	974.85	974.85	1,076.90	1,076.90	973.16	973.16	1,075.22	962.28	860.23	860.23	860.23	860.23	589.76	589.76
Total (lbs/day)																62.69	62.69	54.94	64.73	47.98	37.31	42.38	42.38	46.82	46.82	42.31	42.31	46.75	41.84	37.40	37.40	37.40	37.40	25.64	25.64
Block 2 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 1 & 2 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite NOx Emissions (Construction Equipment and Vehicles)																																			
Pounds per Month	**894.53**	**894.53**	**1,018.01**	**1,286.40**	**1,345.15**	**1,345.15**	**1,345.15**	**1,345.15**	**1,489.83**	**1,614.79**	**1,614.79**	**1,643.07**	**1,801.61**	**1,801.61**	**1,801.61**	**1,825.09**	**1,825.09**	**2,150.42**	**2,375.51**	**2,282.98**	**2,037.56**	**2,144.08**	**2,144.08**	**2,144.08**	**2,144.08**	**2,040.34**	**2,040.34**	**2,142.39**	**2,029.46**	**1,927.41**	**1,927.41**	**1,927.41**	**1,927.41**	**1,682.61**	**1,682.61**
Pounds per Day	**38.89**	**38.89**	**44.26**	**55.93**	**58.48**	**58.48**	**58.48**	**58.48**	**64.78**	**70.21**	**70.21**	**71.44**	**78.33**	**78.33**	**78.33**	**79.35**	**79.35**	**93.50**	**103.28**	**99.26**	**88.59**	**93.22**	**93.22**	**93.22**	**93.22**	**88.71**	**88.71**	**93.15**	**88.24**	**83.80**	**83.80**	**83.80**	**83.80**	**73.16**	**73.16**
Yearly Maximums	**15,837**	**16,744**	**17,651**	**18,434**	**18,973**	**19,453**	**20,258**	**21,289**	**22,226**	**22,774**	**23,303**	**23,833**	**24,334**	**24,676**	**24,915**	**25,154**	**25,471**	**25,675**	**25,452**	**25,004**	**24,649**	**24,539**	**24,077**	**23,616**	**23,558**	**23,120**	**22,786**	**22,108**	**21,326**	**20,441**	**19,603**	**18,765**	**18,116**	**17,559**	**16,659**

Maximum Pounds per Day	**103.28**
Maximum Pounds per Hour [a]	**10.33**
Maximum Pounds per Month	**2,375.51**
Month with Maximum	**19**
Maximum Pounds per Year	**25,675**
Maximum Average Pounds per Hour [b]	**2.93**
Year with Maximum	**Months 18 - 29**
Tons per Year	**12.84**

Huntington Beach Energy Project
Construction Emission Estimates - Cumulative Project
April 2014

Table 5.1A.58R Onsite Construction
Exhaust and Fugitive Emissions Summary

Onsite SOx Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)	1.22	1.22	1.43	1.84	1.94	1.94	1.94	1.94	2.18	2.00	2.00	1.99	2.23	2.23	2.23																				
Total (lbs/day)	0.05	0.05	0.06	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.10	0.10	0.10																				
Units 3 & 4 Demolition																																			
Total (lbs/month)										0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	1.46	1.46	1.97	1.97	2.20	2.20	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.28	2.28
Total (lbs/day)										0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.06	0.06	0.09	0.09	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10
Block 1 Construction																																			
Total (lbs/month)																2.34	2.34	2.14	2.49	1.77	1.41	1.76	1.76	1.94	1.94	1.76	1.76	1.93	1.70	1.52	1.52	1.52	1.52	1.17	1.17
Total (lbs/day)																0.10	0.10	0.09	0.11	0.08	0.06	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.05	0.05
Block 2 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 1 & 2 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite SOx Emissions (Construction Equipment and Vehicles)																																			
Pounds per Month	**1.22**	**1.22**	**1.43**	**1.84**	**1.94**	**1.94**	**1.94**	**1.94**	**2.18**	**2.65**	**2.65**	**2.64**	**2.88**	**2.88**	**2.88**	**2.99**	**2.99**	**3.60**	**3.95**	**3.74**	**3.38**	**3.96**	**3.96**	**3.96**	**3.96**	**3.78**	**3.78**	**3.96**	**3.73**	**3.55**	**3.55**	**3.55**	**3.55**	**3.45**	**3.45**
Pounds per Day	**0.05**	**0.05**	**0.06**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.09**	**0.12**	**0.12**	**0.11**	**0.13**	**0.13**	**0.13**	**0.13**	**0.13**	**0.16**	**0.17**	**0.16**	**0.15**	**0.17**	**0.17**	**0.17**	**0.17**	**0.16**	**0.16**	**0.17**	**0.16**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**
Yearly Maximums	**24**	**25**	**27**	**28**	**30**	**31**	**32**	**34**	**36**	**37**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**46**	**45**	**45**	**45**	**45**	**44**	**45**	**44**	**43**	**42**	**41**	**40**	**38**	**37**	**36**	**35**	**33**

Maximum Pounds per Day	**0.18**
Maximum Pounds per Hour [a]	**0.02**
Maximum Pounds per Month	**4.23**
Month with Maximum	**36**
Maximum Pounds per Year	**46**
Maximum Average Pounds per Hour [b]	**0.01**
Year with Maximum	**Months 18 - 29**
Tons per Year	**0.02**

Onsite Exhaust PM_{10} Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)	57.43	57.43	59.12	71.26	74.46	74.46	74.46	74.46	82.32	69.47	69.47	73.22	81.96	81.96	81.96																				
Total (lbs/day)	2.50	2.50	2.57	3.10	3.24	3.24	3.24	3.24	3.58	3.02	3.02	3.18	3.56	3.56	3.56																				
Units 3 & 4 Demolition																																			
Total (lbs/month)										17.95	17.95	17.95	17.95	17.95	17.95	17.95	17.95	46.58	46.58	60.17	60.17	58.93	58.93	55.45	55.45	55.45	55.45	55.45	55.45	55.45	55.45	55.45	55.33	55.33
Total (lbs/day)										0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	2.03	2.03	2.62	2.62	2.56	2.56	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
Block 1 Construction																																			
Total (lbs/month)																98.69	98.69	84.01	91.73	62.56	45.87	47.30	47.30	50.77	50.77	47.21	47.21	50.69	44.71	41.23	41.23	41.23	41.23	30.10	30.10
Total (lbs/day)																4.29	4.29	3.65	3.99	2.72	1.99	2.06	2.06	2.21	2.21	2.05	2.05	2.20	1.94	1.79	1.79	1.79	1.79	1.31	1.31
Block 2 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 1 & 2 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite Exhaust PM_{10} Emissions (Construction Equipment and Vehicles)																																			
Pounds per Month	**57.43**	**57.43**	**59.12**	**71.26**	**74.46**	**74.46**	**74.46**	**74.46**	**82.32**	**87.41**	**87.41**	**91.17**	**99.91**	**99.91**	**99.91**	**116.64**	**116.64**	**130.59**	**138.32**	**122.74**	**106.04**	**106.22**	**106.22**	**106.22**	**106.22**	**102.66**	**102.66**	**106.14**	**100.16**	**96.68**	**96.68**	**96.68**	**96.68**	**85.43**	**85.43**
Pounds per Day	**2.50**	**2.50**	**2.57**	**3.10**	**3.24**	**3.24**	**3.24**	**3.24**	**3.58**	**3.80**	**3.80**	**3.96**	**4.34**	**4.34**	**4.34**	**5.07**	**5.07**	**5.68**	**6.01**	**5.34**	**4.61**	**4.62**	**4.62**	**4.62**	**4.62**	**4.46**	**4.46**	**4.61**	**4.35**	**4.20**	**4.20**	**4.20**	**4.20**	**3.71**	**3.71**
Yearly Maximums	**891**	**934**	**976**	**1,017**	**1,063**	**1,105**	**1,161**	**1,225**	**1,273**	**1,297**	**1,315**	**1,334**	**1,349**	**1,356**	**1,358**	**1,361**	**1,351**	**1,334**	**1,300**	**1,259**	**1,233**	**1,223**	**1,202**	**1,182**	**1,183**	**1,175**	**1,170**	**1,141**	**1,109**	**1,070**	**1,026**	**982**	**949**	**920**	**871**

Maximum Pounds per Day	**6.01**
Maximum Pounds per Hour [a]	**0.60**
Maximum Pounds per Month	**138.32**
Month with Maximum	**19**
Maximum Pounds per Year	**1,361**
Maximum Average Pounds per Hour [b]	**0.16**
Year with Maximum	**Months 16 - 27**
Tons per Year	**0.68**

Onsite Fugitive PM_{10} Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)	68.21	68.21	84.16	84.16	84.16	84.16	84.16	84.16	84.16	84.16	84.16	68.21	68.21	68.21	68.21																				
Total (lbs/day)	2.97	2.97	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	2.97	2.97	2.97	2.97																				
Units 3 & 4 Demolition																																			
Total (lbs/month)										43.03	43.03	43.03	43.03	43.03	43.03	43.03	43.03	51.01	51.01	51.01	51.01	51.01	51.01	51.01	51.01	51.01	51.01	51.01	51.01	51.01	51.01	51.01	51.01	51.01
Total (lbs/day)										1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22
Block 1 Construction																																			
Total (lbs/month)																135.39	135.39	107.69	107.69	107.46	79.76	71.78	71.78	71.78	71.78	55.83	55.83	55.83	55.83	55.83	55.83	55.83	55.83	55.83
Total (lbs/day)																5.89	5.89	4.68	4.68	4.67	3.47	3.12	3.12	3.12	3.12	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43
Block 2 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 1 & 2 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite Fugitive PM_{10} Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																																			
Pounds per Month	**68.21**	**68.21**	**84.16**	**84.16**	**84.16**	**84.16**	**84.16**	**84.16**	**84.16**	**127.19**	**127.19**	**111.24**	**111.24**	**111.24**	**111.24**	**178.42**	**178.42**	**158.69**	**158.69**	**158.47**	**130.77**	**122.79**	**122.79**	**122.79**	**122.79**	**106.84**	**106.84**	**106.84**	**106.84**	**106.84**	**106.84**	**106.84**	**106.84**	**106.84**	**106.84**
Pounds per Day	**2.97**	**2.97**	**3.66**	**3.66**	**3.66**	**3.66**	**3.66**	**3.66**	**3.66**	**5.53**	**5.53**	**4.84**	**4.84**	**4.84**	**4.84**	**7.76**	**7.76**	**6.90**	**6.90**	**6.89**	**5.69**	**5.34**	**5.34**	**5.34**	**5.34**	**4.65**	**4.65**	**4.65**	**4.65**	**4.65**	**4.65**	**4.65**	**4.65**	**4.65**	**4.65**
Yearly Maximums	**1,091**	**1,134**	**1,177**	**1,204**	**1,299**	**1,393**	**1,467**	**1,542**	**1,616**	**1,663**	**1,658**	**1,654**	**1,666**	**1,677**	**1,673**	**1,668**	**1,597**	**1,525**	**1,473**	**1,421**	**1,370**	**1,346**	**1,330**	**1,314**	**1,366**	**1,434**	**1,518**	**1,575**	**1,623**	**1,672**	**1,693**	**1,705**	**1,718**	**1,732**	**1,696**

Maximum Pounds per Day	**8.31**
Maximum Pounds per Hour [a]	**0.83**
Maximum Pounds per Month	**193.10**
Month with Maximum	**37 or 38**
Maximum Pounds per Year	**1,732**
Maximum Average Pounds per Hour [b]	**0.20**
Year with Maximum	**Months 34-45**
Tons per Year	**0.87**

Table 5.1A.58R Onsite Construction
Exhaust and Fugitive Emissions Summary

Total Onsite PM_{10} Emissions (Exhaust and Fugitive)

Parameter	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Pounds per Month	125.64	125.64	143.28	155.42	158.61	158.61	158.61	158.61	166.48	214.60	214.60	202.41	211.15	211.15	211.15	295.06	295.06	289.29	297.01	281.20	236.80	229.01	229.01	229.01	229.01	209.50	209.50	212.98	207.00	203.52	203.52	203.52	203.52	192.27	192.27
Pounds per Day	5.46	5.46	6.23	6.76	6.90	6.90	6.90	6.90	7.24	9.33	9.33	8.80	9.18	9.18	9.18	12.83	12.83	12.58	12.91	12.23	10.30	9.96	9.96	9.96	9.96	9.11	9.11	9.26	9.00	8.85	8.85	8.85	8.85	8.36	8.36
Yearly Maximums	1,983	2,068	2,154	2,221	2,361	2,497	2,628	2,767	2,889	2,959	2,974	2,988	3,015	3,033	3,031	3,029	2,947	2,859	2,774	2,680	2,602	2,569	2,532	2,496	2,549	2,609	2,688	2,716	2,732	2,742	2,719	2,687	2,668	2,652	2,567
Maximum Pounds per Day	12.91																																		
Maximum Pounds per Hour [a]	1.29																																		
Maximum Pounds per Month	297.01																																		
Month with Maximum	19																																		
Maximum Pounds per Year	3,033																																		
Maximum Average Pounds per Hour [a]	0.35																																		
Year with Maximum	Months 14 - 25																																		
Tons per Year	1.52																																		

Onsite Exhaust $PM_{2.5}$ Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)	57.40	57.40	59.07	71.22	74.41	74.41	74.41	74.41	82.28	69.43	69.43	73.19	81.93	81.93	81.93																				
Total (lbs/day)	2.50	2.50	2.57	3.10	3.24	3.24	3.24	3.24	3.58	3.02	3.02	3.18	3.56	3.56	3.56																				
Units 3 & 4 Demolition																																			
Total (lbs/month)										17.93	17.93	17.93	17.93	17.93	17.93	17.93	17.93	46.56	46.56	60.15	60.15	58.91	58.91	55.43	55.43	55.43	55.43	55.43	55.43	55.43	55.43	55.43	55.31	55.31
Total (lbs/day)										0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	2.02	2.02	2.62	2.62	2.56	2.56	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.40	2.40
Block 1 Construction																																			
Total (lbs/month)																98.65	98.65	83.97	91.69	62.52	45.83	47.26	47.26	50.74	50.74	47.19	47.19	50.67	44.69	41.21	41.21	41.21	41.21	30.08	30.08
Total (lbs/day)																4.29	4.29	3.65	3.99	2.72	1.99	2.05	2.05	2.21	2.21	2.05	2.05	2.20	1.94	1.79	1.79	1.79	1.79	1.31	1.31
Block 2 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 1 & 2 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite Exhaust $PM_{2.5}$ Emissions (Construction Equipment and Vehicles)																																			
Pounds per Month	57.40	57.40	59.07	71.22	74.41	74.41	74.41	74.41	82.28	87.36	87.36	91.13	99.87	99.87	99.87	116.58	116.58	130.53	138.26	122.67	105.98	106.17	106.17	106.17	106.17	102.62	102.62	106.10	100.12	96.64	96.64	96.64	96.64	85.39	85.39
Pounds per Day	2.50	2.50	2.57	3.10	3.24	3.24	3.24	3.24	3.58	3.80	3.80	3.96	4.34	4.34	4.34	5.07	5.07	5.68	6.01	5.33	4.61	4.62	4.62	4.62	4.62	4.46	4.46	4.61	4.35	4.20	4.20	4.20	4.20	3.71	3.71
Yearly Maximums	891	933	976	1,017	1,062	1,104	1,160	1,224	1,272	1,296	1,315	1,334	1,349	1,355	1,358	1,361	1,350	1,334	1,300	1,258	1,232	1,223	1,202	1,181	1,183	1,174	1,169	1,141	1,108	1,070	1,026	981	949	920	870
Maximum Pounds per Day	6.01																																		
Maximum Pounds per Hour [a]	0.60																																		
Maximum Pounds per Month	138.26																																		
Month with Maximum	19																																		
Maximum Pounds per Year	1,361																																		
Maximum Average Pounds per Hour [a]	0.16																																		
Year with Maximum	Months 16 - 27																																		
Tons per Year	0.68																																		

Onsite Fugitive $PM_{2.5}$ Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)	7.05	7.05	8.64	8.64	8.64	8.64	8.64	8.64	8.64	8.64	8.64	7.05	7.05	7.05	7.05																				
Total (lbs/day)	0.31	0.31	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.31	0.31	0.31	0.31																				
Units 3 & 4 Demolition																																			
Total (lbs/month)										4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67
Total (lbs/day)										0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Block 1 Construction																																			
Total (lbs/month)																38.45	38.45	23.23	23.23	23.20	7.98	7.18	7.18	7.18	7.18	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58
Total (lbs/day)																1.67	1.67	1.01	1.01	1.01	0.35	0.31	0.31	0.31	0.31	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Block 2 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 1 & 2 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite Fugitive $PM_{2.5}$ Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																																			
Pounds per Month	7.05	7.05	8.64	8.64	8.64	8.64	8.64	8.64	8.64	13.52	13.52	11.92	11.92	11.92	11.92	43.33	43.33	28.90	28.90	28.88	13.65	12.85	12.85	12.85	12.85	11.26	11.26	11.26	11.26	11.26	11.26	11.26	11.26	11.26	11.26
Pounds per Day	0.31	0.31	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.59	0.59	0.52	0.52	0.52	0.52	1.88	1.88	1.26	1.26	1.26	0.59	0.56	0.56	0.56	0.56	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
Yearly Maximums	114	118	123	127	161	196	216	236	257	262	261	260	261	262	262	261	229	197	179	161	144	141	140	138	156	187	220	237	254	271	272	273	274	275	270
Maximum Pounds per Day	1.91																																		
Maximum Pounds per Hour [a]	0.19																																		
Maximum Pounds per Month	44.02																																		
Month with Maximum	37 or 38																																		
Maximum Pounds per Year	275																																		
Maximum Average Pounds per Hour [a]	0.03																																		
Year with Maximum	Months 34 - 45																																		
Tons per Year	0.14																																		

Table 5.1A.58R Onsite Construction
Exhaust and Fugitive Emissions Summary

Total Onsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

Parameter	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Pounds per Month	64.45	64.45	67.72	79.86	83.05	83.05	83.05	83.05	90.92	100.88	100.88	103.05	111.79	111.79	111.79	159.91	159.91	159.43	167.16	151.55	119.63	119.03	119.03	119.03	119.03	113.88	113.88	117.36	111.38	107.90	107.90	107.90	107.90	96.65	96.65
Pounds per Day	2.80	2.80	2.94	3.47	3.61	3.61	3.61	3.61	3.95	4.39	4.39	4.48	4.86	4.86	4.86	6.95	6.95	6.93	7.27	6.59	5.20	5.18	5.18	5.18	5.18	4.95	4.95	5.10	4.84	4.69	4.69	4.69	4.69	4.20	4.20
Yearly Maximums	1,004	1,052	1,099	1,143	1,223	1,300	1,376	1,461	1,529	1,558	1,576	1,594	1,610	1,617	1,619	1,621	1,579	1,530	1,479	1,420	1,376	1,364	1,342	1,319	1,339	1,361	1,389	1,378	1,362	1,341	1,298	1,254	1,223	1,194	1,141

Maximum Pounds per Day	7.27
Maximum Pounds per Hour [a]	0.727
Maximum Pounds per Month	167.16
Month with Maximum	19
Maximum Pounds per Year	1,621
Maximum Average Pounds per Hour [b]	0.185
Year with Maximum	Months 16 - 27
Tons per Year	0.81

Onsite CO_2 Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (metric tons/month)	56.43	56.43	65.60	83.55	88.04	88.04	88.04	88.04	98.24	90.49	90.49	90.26	100.87	100.87	100.87																				
Total (metric tons/day)	2.45	2.45	2.85	3.63	3.83	3.83	3.83	3.83	4.27	3.93	3.93	3.92	4.39	4.39	4.39																				
Units 3 & 4 Demolition																																			
Total (lbs/month)										31.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00	66.75	66.75	89.20	89.20	99.40	99.40	91.64	91.64	91.64	91.64	91.64	91.64	91.64	91.64	91.64	91.64	102.87	102.87
Total (lbs/day)										1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	2.90	2.90	3.88	3.88	4.32	4.32	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	4.47	4.47
Block 1 Construction																																			
Total (metric tons/month)																105.87	105.87	96.74	112.25	80.27	64.41	79.83	79.83	87.59	87.59	79.65	79.65	87.41	77.21	69.45	69.45	69.45	69.45	53.95	53.95
Total (metric tons/day)																4.60	4.60	4.21	4.88	3.49	2.80	3.47	3.47	3.81	3.81	3.46	3.46	3.80	3.36	3.02	3.02	3.02	3.02	2.35	2.35
Block 2 Construction																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Units 1 & 2 Demolition																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Bldgs. 33 & 34 Construction																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Total Onsite CO_2 Emissions (Construction Equipment and Vehicles)																																			
Metric Tons per Month	56.43	56.43	65.60	83.55	88.04	88.04	88.04	88.04	98.24	121.48	121.48	121.25	131.86	131.86	131.86	136.87	136.87	163.49	179.00	169.47	153.61	179.23	179.23	179.23	179.23	171.30	171.30	179.05	168.85	161.10	161.10	161.10	161.10	156.82	156.82
Metric Tons per Day	2.45	2.45	2.85	3.63	3.83	3.83	3.83	3.83	4.27	5.28	5.28	5.27	5.73	5.73	5.73	5.95	5.95	7.11	7.78	7.37	6.68	7.79	7.79	7.79	7.79	7.45	7.45	7.78	7.34	7.00	7.00	7.00	7.00	6.82	6.82
Yearly Maximums	1,077	1,152	1,228	1,294	1,347	1,396	1,471	1,562	1,644	1,699	1,757	1,815	1,873	1,920	1,959	1,999	2,041	2,073	2,071	2,053	2,044	2,052	2,029	2,007	2,021	1,990	1,966	1,919	1,864	1,802	1,744	1,686	1,642	1,606	1,529

Maximum Metric Tons per Day	8.41
Maximum Metric Tons per Hour [a]	0.84
Maximum Metric Tons per Month	193.33
Month with Maximum	36
Maximum Metric Tons per Year	2,073
Maximum Average Metric Tons per Hour [b]	0.24
Year with Maximum	Months 18 - 29

Onsite N_2O Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (metric tons/month)	0.00143	0.00143	0.00166	0.00211	0.00223	0.00223	0.00223	0.00223	0.00249	0.00229	0.00229	0.00229	0.00256	0.00256	0.00256																				
Total (metric tons/day)	0.00006	0.00006	0.00007	0.00009	0.00010	0.00010	0.00010	0.00010	0.00011	0.00010	0.00010	0.00010	0.00011	0.00011	0.00011																				
Units 3 & 4 Demolition																																			
Total (lbs/month)										0.00078	0.00078	0.00078	0.00078	0.00078	0.00078	0.00078	0.00078	0.00169	0.00169	0.00226	0.00226	0.00252	0.00252	0.00233	0.00233	0.00233	0.00233	0.00233	0.00233	0.00233	0.00233	0.00233	0.00233	0.00261	0.00261
Total (lbs/day)										0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00007	0.00007	0.00010	0.00010	0.00011	0.00011	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00011	0.00011
Block 1 Construction																																			
Total (metric tons/month)																0.00268	0.00268	0.00245	0.00284	0.00203	0.00163	0.00202	0.00202	0.00222	0.00222	0.00202	0.00202	0.00222	0.00196	0.00176	0.00176	0.00176	0.00176	0.00137	0.00137
Total (metric tons/day)																0.00012	0.00012	0.00011	0.00012	0.00009	0.00007	0.00009	0.00009	0.00010	0.00010	0.00009	0.00009	0.00010	0.00009	0.00008	0.00008	0.00008	0.00008	0.00006	0.00006
Block 2 Construction																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Units 1 & 2 Demolition																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Bldgs. 33 & 34 Construction																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Total Onsite N_2O Emissions (Construction Equipment and Vehicles)																																			
Metric Tons per Month	0.00143	0.00143	0.00166	0.00211	0.00223	0.00223	0.00223	0.00223	0.00249	0.00307	0.00307	0.00307	0.00334	0.00334	0.00334	0.00346	0.00346	0.00414	0.00454	0.00429	0.00389	0.00454	0.00454	0.00454	0.00454	0.00435	0.00435	0.00454	0.00428	0.00409	0.00409	0.00409	0.00409	0.00398	0.00398
Metric Tons per Day	0.00006	0.00006	0.00007	0.00009	0.00010	0.00010	0.00010	0.00010	0.00011	0.00013	0.00013	0.00013	0.00015	0.00015	0.00015	0.00015	0.00015	0.00018	0.00020	0.00019	0.00017	0.00020	0.00020	0.00020	0.00020	0.00019	0.00019	0.00020	0.00019	0.00018	0.00018	0.00018	0.00018	0.00017	0.00017
Yearly Maximums	0.02723	0.02915	0.03106	0.03275	0.03410	0.03534	0.03725	0.03956	0.04163	0.04303	0.04450	0.04597	0.04744	0.04864	0.04965	0.05065	0.05173	0.05255	0.05250	0.05205	0.05184	0.05204	0.05147	0.05090	0.05126	0.05046	0.04985	0.04864	0.04724	0.04565	0.04417	0.04268	0.04157	0.04066	0.03870

Maximum Metric Tons per Day	0.000213
Maximum Metric Tons per Hour [a]	0.0000213
Maximum Metric Tons per Month	0.00490
Month with Maximum	36
Maximum Metric Tons per Year	0.05255
Maximum Average Metric Tons per Hour [b]	0.000006000
Year with Maximum	Months 18 - 29

Onsite CH_4 Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (metric tons/month)	0.00318	0.00318	0.00369	0.00471	0.00497	0.00497	0.00497	0.00497	0.00555	0.00511	0.00511	0.00510	0.00571	0.00571	0.00571																				
Total (metric tons/day)	0.00014	0.00014	0.00016	0.00020	0.00022	0.00022	0.00022	0.00022	0.00024	0.00022	0.00022	0.00022	0.00025	0.00025	0.00025																				
Units 3 & 4 Demolition																																			
Total (lbs/month)										0.00175	0.00175	0.00175	0.00175	0.00175	0.00175	0.00175	0.00175	0.00377	0.00377	0.00505	0.00505	0.00563	0.00563	0.00519	0.00519	0.00519	0.00519	0.00519	0.00519	0.00519	0.00519	0.00519	0.00519	0.00583	0.00583
Total (lbs/day)										0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00016	0.00016	0.00022	0.00022	0.00024	0.00024	0.00023	0.00023	0.00023	0.00023	0.00023	0.00023	0.00023	0.00023	0.00023	0.00023	0.00025	0.00025
Block 1 Construction																																			
Total (metric tons/month)																0.00598	0.00598	0.00546	0.00634	0.00453	0.00362	0.00451	0.00451	0.00495	0.00495	0.00451	0.00451	0.00495	0.00437	0.00393	0.00393	0.00393	0.00393	0.00304	0.00304
Total (metric tons/day)																0.00026	0.00026	0.00024	0.00028	0.00020	0.00016	0.00020	0.00020	0.00022	0.00022	0.00020	0.00020	0.00022	0.00019	0.00017	0.00017	0.00017	0.00017	0.00013	0.00013
Block 2 Construction																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Units 1 & 2 Demolition																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Bldgs. 33 & 34 Construction																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Total Onsite CH_4 Emissions (Construction Equipment and Vehicles)																																			
Metric Tons per Month	0.00318	0.00318	0.00369	0.00471	0.00497	0.00497	0.00497	0.00497	0.00555	0.00685	0.00685	0.00685	0.00745	0.00745	0.00745	0.00773	0.00773	0.00924	0.01012	0.00958	0.00867	0.01013	0.01013	0.01013	0.01013	0.00969	0.00969	0.01013	0.00956	0.00911	0.00911	0.00911	0.00911	0.00887	0.00887
Metric Tons per Day	0.00014	0.00014	0.00016	0.00020	0.00022	0.00022	0.00022	0.00022	0.00024	0.00030	0.00030	0.00030	0.00032	0.00032	0.00032	0.00034	0.00034	0.00040	0.00044	0.00042	0.00038	0.00044	0.00044	0.00044	0.00044	0.00042	0.00042	0.00044	0.00042	0.00040	0.00040	0.00040	0.00040	0.00039	0.00039
Yearly Maximums	0.06074	0.06501	0.06929	0.07305	0.07606	0.07882	0.08309	0.08824	0.09285	0.09598	0.09926	0.10254	0.10582	0.10851	0.11075	0.11299	0.11539	0.11722	0.11710	0.11610	0.11563	0.11607	0.11481	0.11355	0.11434	0.11255	0.11119	0.10850	0.10537	0.10182	0.09851	0.09521	0.09273	0.09068	0.08632

Maximum Metric Tons per Day	0.000475
Maximum Metric Tons per Hour [a]	0.0000475
Maximum Metric Tons per Month	0.01093
Month with Maximum	36
Maximum Metric Tons per Year	0.11722
Maximum Average Metric Tons per Hour [b]	0.0000134
Year with Maximum	Months 18 - 29

Notes:
[a] The hours per day are per 'Manpower Schedule Huntington Beach 03.13.12.xls': 10 hours/day
[b] The hours per year are assumed to allow operation 24 hours per day, 7 days per week despite the actual construction schedule per 'Manpower Schedule Huntington Beach 03.13.12.xls': 8,760 hours/year

Table 5.1A.58R Onsite Construction
Exhaust and Fugitive Emissions Summary

Onsite CO Emissions

	CO Emissions by Month																																		
Construction Step	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 3 & 4 Demolition																																			
Total (lbs/month)	1,038.38																																		
Total (lbs/day)	45.15																																		
Block 1 Construction																																			
Total (lbs/month)	357.55	306.20	306.20	306.20	227.01	227.01	183.29	183.29	372.40	372.40																									
Total (lbs/day)	15.55	13.31	13.31	13.31	9.87	9.87	7.97	7.97	16.19	16.19																									
Block 2 Construction																																			
Total (lbs/month)	469.54	1,282.09	1,282.09	957.23	1,032.52	810.23	669.84	669.38	669.38	707.03	669.38	668.47	743.76	706.11	538.80	538.80	538.80	538.80	463.51	349.45	298.70	298.70	298.70	298.70	298.70	222.96	411.07	411.07							
Total (lbs/day)	20.41	55.74	55.74	41.62	44.89	35.23	29.12	29.10	29.10	30.74	29.10	29.06	32.34	30.70	23.43	23.43	23.43	23.43	20.15	15.19	12.99	12.99	12.99	12.99	12.99	9.69	17.87	17.87							
Units 1 & 2 Demolition																																			
Total (lbs/month)																																652.25	652.25	839.00	839.00
Total (lbs/day)																																28.36	28.36	36.48	36.48
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite CO Emissions (Construction Equipment and Vehicles)																																			
Pounds per Month	**1,865.47**	**1,588.30**	**1,588.30**	**1,263.44**	**1,259.53**	**1,037.24**	**853.13**	**852.68**	**1,041.78**	**1,079.43**	**669.38**	**668.47**	**743.76**	**706.11**	**538.80**	**538.80**	**538.80**	**538.80**	**463.51**	**349.45**	**298.70**	**298.70**	**298.70**	**298.70**	**298.70**	**222.96**	**411.07**	**411.07**	**0.00**	**0.00**	**0.00**	**652.25**	**652.25**	**839.00**	**839.00**
Pounds per Day	**81.11**	**69.06**	**69.06**	**54.93**	**54.76**	**45.10**	**37.09**	**37.07**	**45.29**	**46.93**	**29.10**	**29.06**	**32.34**	**30.70**	**23.43**	**23.43**	**23.43**	**23.43**	**20.15**	**15.19**	**12.99**	**12.99**	**12.99**	**12.99**	**12.99**	**9.69**	**17.87**	**17.87**	**0.00**	**0.00**	**0.00**	**28.36**	**28.36**	**36.48**	**36.48**
Yearly Maximums	**13,767**	**12,645**	**11,763**	**10,714**	**9,989**	**9,268**	**8,770**	**8,380**	**7,877**	**7,134**	**6,353**	**5,983**	**5,613**	**5,168**	**4,685**	**4,557**	**4,429**	**3,890**	**3,352**	**2,888**	**3,191**	**3,544**	**4,085**	**4,625**	**5,295**	**5,965**	**6,674**	**7,195**	**7,716**	**8,649**	**9,688**	**11,041**	**11,743**	**12,480**	**12,975**
Maximum Pounds per Day																																			
Maximum Pounds per Hour [a]																																			
Maximum Pounds per Month																																			
Month with Maximum																																			
Maximum Pounds per Year																																			
Maximum Average Pounds per Hour [b]																																			
Year with Maximum																																			
Tons per Year																																			

Onsite VOC Emissions

	VOC Emissions by Month																																		
Construction Step	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 3 & 4 Demolition																																			
Total (lbs/month)	194.99																																		
Total (lbs/day)	8.48																																		
Block 1 Construction																																			
Total (lbs/month)	83.87	74.10	74.10	74.10	47.67	47.67	41.04	41.04	74.33	74.33																									
Total (lbs/day)	3.65	3.22	3.22	3.22	2.07	2.07	1.78	1.78	3.23	3.23																									
Block 2 Construction																																			
Total (lbs/month)	82.06	203.15	203.15	148.63	172.09	139.18	129.19	128.94	128.94	140.67	128.94	128.42	151.88	140.15	112.34	112.34	112.34	112.34	88.87	72.98	64.65	64.65	64.65	64.65	64.65	40.93	69.74	69.74							
Total (lbs/day)	3.57	8.83	8.83	6.46	7.48	6.05	5.62	5.61	5.61	6.12	5.61	5.58	6.60	6.09	4.88	4.88	4.88	4.88	3.86	3.17	2.81	2.81	2.81	2.81	2.81	1.78	3.03	3.03							
Units 1 & 2 Demolition																																			
Total (lbs/month)																																104.30	104.30	123.73	123.73
Total (lbs/day)																																4.53	4.53	5.38	5.38
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite VOC Emissions (Construction Equipment and Vehicles)																																			
Pounds per Month	**360.92**	**277.25**	**277.25**	**222.73**	**219.76**	**186.85**	**170.24**	**169.98**	**203.27**	**215.00**	**128.94**	**128.42**	**151.88**	**140.15**	**112.34**	**112.34**	**112.34**	**112.34**	**88.87**	**72.98**	**64.65**	**64.65**	**64.65**	**64.65**	**64.65**	**40.93**	**69.74**	**69.74**	**0.00**	**0.00**	**0.00**	**104.30**	**104.30**	**123.73**	**123.73**
Pounds per Day	**15.69**	**12.05**	**12.05**	**9.68**	**9.55**	**8.12**	**7.40**	**7.39**	**8.84**	**9.35**	**5.61**	**5.58**	**6.60**	**6.09**	**4.88**	**4.88**	**4.88**	**4.88**	**3.86**	**3.17**	**2.81**	**2.81**	**2.81**	**2.81**	**2.81**	**1.78**	**3.03**	**3.03**	**0.00**	**0.00**	**0.00**	**4.53**	**4.53**	**5.38**	**5.38**
Yearly Maximums	**2,561**	**2,352**	**2,214**	**2,050**	**1,939**	**1,832**	**1,757**	**1,676**	**1,579**	**1,440**	**1,290**	**1,226**	**1,162**	**1,075**	**975**	**933**	**890**	**778**	**666**	**577**	**608**	**648**	**707**	**766**	**839**	**911**	**997**	**1,055**	**1,112**	**1,239**	**1,379**	**1,562**	**1,640**	**1,728**	**1,789**
Maximum Pounds per Day																																			
Maximum Pounds per Hour [a]																																			
Maximum Pounds per Month																																			
Month with Maximum																																			
Maximum Pounds per Year																																			
Maximum Average Pounds per Hour [b]																																			
Year with Maximum																																			
Tons per Year																																			

Onsite NOx Emissions

	NOx Emissions by Month																																		
Construction Step	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 3 & 4 Demolition																																			
Total (lbs/month)	1,092.85																																		
Total (lbs/day)	47.52																																		
Block 1 Construction																																			
Total (lbs/month)	488.50	436.42	436.42	436.42	251.43	251.43	214.32	214.32	403.84	403.84																									
Total (lbs/day)	21.24	18.97	18.97	18.97	10.93	10.93	9.32	9.32	17.56	17.56																									
Block 2 Construction																																			
Total (lbs/month)	505.06	1,269.88	1,269.88	925.54	1,109.78	892.78	875.27	874.52	874.52	966.64	783.13	781.76	947.25	864.50	695.29	695.29	695.29	695.29	529.80	438.73	390.56	390.56	348.76	348.76	348.76	200.33	356.05	356.05							
Total (lbs/day)	21.96	55.21	55.21	40.24	48.25	38.82	38.06	38.02	38.02	42.03	34.05	33.99	41.18	37.59	30.23	30.23	30.23	30.23	23.03	19.08	16.98	16.98	15.16	15.16	15.16	8.71	15.48	15.48							
Units 1 & 2 Demolition																																			
Total (lbs/month)																																638.75	638.75	744.56	658.30
Total (lbs/day)																																27.77	27.77	32.37	28.62
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite NOx Emissions (Construction Equipment and Vehicles)																																			
Pounds per Month	**2,086.42**	**1,706.30**	**1,706.30**	**1,361.96**	**1,361.20**	**1,144.21**	**1,089.59**	**1,088.83**	**1,278.36**	**1,370.48**	**783.13**	**781.76**	**947.25**	**864.50**	**695.29**	**695.29**	**695.29**	**695.29**	**529.80**	**438.73**	**390.56**	**390.56**	**348.76**	**348.76**	**348.76**	**200.33**	**356.05**	**356.05**	**0.00**	**0.00**	**0.00**	**638.75**	**638.75**	**744.56**	**658.30**
Pounds per Day	**90.71**	**74.19**	**74.19**	**59.22**	**59.18**	**49.75**	**47.37**	**47.34**	**55.58**	**59.59**	**34.05**	**33.99**	**41.18**	**37.59**	**30.23**	**30.23**	**30.23**	**30.23**	**23.03**	**19.08**	**16.98**	**16.98**	**15.16**	**15.16**	**15.16**	**8.71**	**15.48**	**15.48**	**0.00**	**0.00**	**0.00**	**27.77**	**27.77**	**32.37**	**28.62**
Yearly Maximums	**15,759**	**14,619**	**13,778**	**12,767**	**12,100**	**11,434**	**10,985**	**10,425**	**9,775**	**8,887**	**7,907**	**7,473**	**7,040**	**6,442**	**5,777**	**5,438**	**5,099**	**4,404**	**3,708**	**3,179**	**3,379**	**3,627**	**3,981**	**4,290**	**4,666**	**5,041**	**5,499**	**5,802**	**6,104**	**6,763**	**7,511**	**8,513**	**8,876**	**9,305**	**9,581**
Maximum Pounds per Day																																			
Maximum Pounds per Hour [a]																																			
Maximum Pounds per Month																																			
Month with Maximum																																			
Maximum Pounds per Year																																			
Maximum Average Pounds per Hour [b]																																			
Year with Maximum																																			
Tons per Year																																			

Table 5.1A.58R Onsite Construction
Exhaust and Fugitive Emissions Summary

Onsite SOx Emissions

Construction Step	SOx Emissions by Month																																		
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 3 & 4 Demolition																																			
Total (lbs/month)	2.28																																		
Total (lbs/day)	0.10																																		
Block 1 Construction																																			
Total (lbs/month)	0.98	0.90	0.90	0.90	0.54	0.54	0.47	0.47	0.80	0.80																									
Total (lbs/day)	0.04	0.04	0.04	0.04	0.02	0.02	0.02	0.02	0.03	0.03																									
Block 2 Construction																																			
Total (lbs/month)	0.97	2.34	2.34	1.81	2.17	1.77	1.76	1.76	1.76	1.94	1.76	1.76	2.11	1.93	1.52	1.52	1.52	1.52	1.17	0.98	0.90	0.90	0.90	0.90	0.90	0.54	0.87	0.87							
Total (lbs/day)	0.04	0.10	0.10	0.08	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.08	0.07	0.07	0.07	0.07	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.02	0.04	0.04							
Units 1 & 2 Demolition																																			
Total (lbs/month)																																1.64	1.64	1.97	1.97
Total (lbs/day)																																0.07	0.07	0.09	0.09
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite SOx Emissions (Construction Equipment and Vehicles)																																			
Pounds per Month	4.23	3.24	3.24	2.71	2.71	2.31	2.24	2.23	2.56	2.74	1.76	1.76	2.11	1.93	1.52	1.52	1.52	1.52	1.17	0.98	0.90	0.90	0.90	0.90	0.90	0.54	0.87	0.87	0.00	0.00	0.00	1.64	1.64	1.97	1.97
Pounds per Day	0.18	0.14	0.14	0.12	0.12	0.10	0.10	0.10	0.11	0.12	0.08	0.08	0.09	0.08	0.07	0.07	0.07	0.07	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.02	0.04	0.04	0.00	0.00	0.00	0.07	0.07	0.09	0.09
Yearly Maximums	32	30	28	27	25	24	23	22	21	19	18	17	16	15	13	13	12	10	9	8	8	9	10	11	13	14	15	17	18	20	22	25	26	27	28

Maximum Pounds per Day	
Maximum Pounds per Hour [a]	
Maximum Pounds per Month	
Month with Maximum	
Maximum Pounds per Year	
Maximum Average Pounds per Hour [b]	
Year with Maximum	
Tons per Year	

Onsite Exhaust PM_{10} Emissions

Construction Step	Exhaust PM_{10} Emissions by Month																																		
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 3 & 4 Demolition																																			
Total (lbs/month)	55.33																																		
Total (lbs/day)	2.41																																		
Block 1 Construction																																			
Total (lbs/month)	23.38	19.50	19.50	19.50	13.15	13.15	10.84	10.84	22.59	22.59																									
Total (lbs/day)	1.02	0.85	0.85	0.85	0.57	0.57	0.47	0.47	0.98	0.98																									
Block 2 Construction																																			
Total (lbs/month)	29.24	78.19	78.19	54.34	60.65	48.69	41.65	41.61	41.61	44.77	36.25	36.19	41.85	39.02	31.79	31.79	31.79	31.79	26.13	20.40	16.98	16.98	14.81	14.81	14.81	9.72	19.01	19.01							
Total (lbs/day)	1.27	3.40	3.40	2.36	2.64	2.12	1.81	1.81	1.81	1.95	1.58	1.57	1.82	1.70	1.38	1.38	1.38	1.38	1.14	0.89	0.74	0.74	0.64	0.64	0.64	0.42	0.83	0.83							
Units 1 & 2 Demolition																																			
Total (lbs/month)																																29.66	29.66	34.92	30.19
Total (lbs/day)																																1.29	1.29	1.52	1.31
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite Exhaust PM_{10} Emissions (Construction Equipment and Vehicles)																																			
Pounds per Month	107.94	97.69	97.69	73.84	73.80	61.84	52.49	52.45	64.20	67.36	36.25	36.19	41.85	39.02	31.79	31.79	31.79	31.79	26.13	20.40	16.98	16.98	14.81	14.81	14.81	9.72	19.01	19.01	0.00	0.00	0.00	29.66	29.66	34.92	30.19
Pounds per Day	4.69	4.25	4.25	3.21	3.21	2.69	2.28	2.28	2.79	2.93	1.58	1.57	1.82	1.70	1.38	1.38	1.38	1.38	1.14	0.89	0.74	0.74	0.64	0.64	0.64	0.42	0.83	0.83	0.00	0.00	0.00	1.29	1.29	1.52	1.31
Yearly Maximums	822	756	697	631	589	547	517	491	459	411	361	340	318	291	262	249	236	204	173	147	156	168	186	202	220	239	261	273	285	316	353	405	428	453	470

Maximum Pounds per Day	
Maximum Pounds per Hour [a]	
Maximum Pounds per Month	
Month with Maximum	
Maximum Pounds per Year	
Maximum Average Pounds per Hour [b]	
Year with Maximum	
Tons per Year	

Onsite Fugitive PM_{10} Emissions

Construction Step	Fugitive PM_{10} Emissions by Month																																		
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 3 & 4 Demolition																																			
Total (lbs/month)	51.01																																		
Total (lbs/day)	2.22																																		
Block 1 Construction																																			
Total (lbs/month)	55.83	55.83	55.83	55.83	47.85	47.85	47.85	47.85	48.08	48.08																									
Total (lbs/day)	2.43	2.43	2.43	2.43	2.08	2.08	2.08	2.08	2.09	2.09																									
Block 2 Construction																																			
Total (lbs/month)	67.69	135.27	135.27	107.57	107.57	107.46	79.76	71.78	71.78	71.78	71.78	55.83	55.83	55.83	55.83	55.83	55.83	55.83	55.83	55.83	55.83	55.83	55.83	55.83	55.83	47.85	47.97	47.97							
Total (lbs/day)	2.94	5.88	5.88	4.68	4.68	4.67	3.47	3.12	3.12	3.12	3.12	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.08	2.09	2.09							
Units 1 & 2 Demolition																																			
Total (lbs/month)																																53.20	53.20	53.20	53.20
Total (lbs/day)																																2.31	2.31	2.31	2.31
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite Fugitive PM_{10} Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																																			
Pounds per Month	174.53	191.10	191.10	163.40	155.42	155.31	127.61	119.64	119.86	119.86	71.78	55.83	55.83	55.83	55.83	55.83	55.83	55.83	55.83	55.83	55.83	55.83	55.83	55.83	55.83	47.85	47.97	47.97	0.00	0.00	0.00	53.20	53.20	53.20	53.20
Pounds per Day	7.59	8.31	8.31	7.10	6.76	6.75	5.55	5.20	5.21	5.21	3.12	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.08	2.09	2.09	0.00	0.00	0.00	2.31	2.31	2.31	2.31
Yearly Maximums	1,645	1,527	1,391	1,256	1,149	1,049	950	878	814	750	686	670	670	670	662	654	646	590	535	479	476	474	471	468	466	463	468	474	479	532	617	738	806	873	933

Maximum Pounds per Day	
Maximum Pounds per Hour [a]	
Maximum Pounds per Month	
Month with Maximum	
Maximum Pounds per Year	
Maximum Average Pounds per Hour [b]	
Year with Maximum	
Tons per Year	

Table 5.1A.58R Onsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite PM_{10} Emissions (Exhaust and Fugitive)

	Total PM_{10} Emissions by Month																																
Parameter	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
Pounds per Month	282.47	288.79	288.79	237.24	229.23	217.15	180.10	172.09	184.06	187.22	108.03	92.02	97.68	94.85	87.62	87.62	87.62	87.62	81.96	76.23	72.81	72.81	70.64	70.64	70.64	57.57	66.98	66.98	0.00	0.00	0.00	82.86	82.86	88.12	83.39
Pounds per Day	12.28	12.56	12.56	10.31	9.97	9.44	7.83	7.48	8.00	8.14	4.70	4.00	4.25	4.12	3.81	3.81	3.81	3.81	3.56	3.31	3.17	3.17	3.07	3.07	3.07	2.50	2.91	2.91	0.00	0.00	0.00	3.60	3.60	3.83	3.63
Yearly Maximums	2,467	2,282	2,088	1,887	1,738	1,596	1,467	1,368	1,273	1,161	1,047	1,009	988	961	924	903	883	795	707	625	632	642	657	670	686	702	729	746	764	848	970	1,143	1,234	1,326	1,403
Maximum Pounds per Day																																			
Maximum Pounds per Hour [a]																																			
Maximum Pounds per Month																																			
Month with Maximum																																			
Maximum Pounds per Year																																			
Maximum Average Pounds per Hour [a]																																			
Year with Maximum																																			
Tons per Year																																			

Onsite Exhaust $PM_{2.5}$ Emissions

	Exhaust $PM_{2.5}$ Emissions by Month																																		
Construction Step	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 3 & 4 Demolition																																			
Total (lbs/month)	55.31																																		
Total (lbs/day)	2.40																																		
Block 1 Construction																																			
Total (lbs/month)	23.36	19.48	19.48	19.48	13.14	13.14	10.83	10.83	22.58	22.58																									
Total (lbs/day)	1.02	0.85	0.85	0.85	0.57	0.57	0.47	0.47	0.98	0.98																									
Block 2 Construction																																			
Total (lbs/month)	29.22	78.15	78.15	54.31	60.62	48.65	41.61	41.58	41.58	44.74	36.22	36.17	41.83	39.00	31.77	31.77	31.77	31.77	26.11	20.38	16.96	16.96	14.80	14.80	14.80	9.71	19.00	19.00							
Total (lbs/day)	1.27	3.40	3.40	2.36	2.64	2.12	1.81	1.81	1.81	1.95	1.57	1.57	1.82	1.70	1.38	1.38	1.38	1.38	1.14	0.89	0.74	0.74	0.64	0.64	0.64	0.42	0.83	0.83							
Units 1 & 2 Demolition																																			
Total (lbs/month)																																29.65	29.65	34.91	30.17
Total (lbs/day)																																1.29	1.29	1.52	1.31
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite Exhaust $PM_{2.5}$ Emissions (Construction Equipment and Vehicles)																																			
Pounds per Month	107.89	97.63	97.63	73.79	73.76	61.79	52.44	52.41	64.16	67.31	36.22	36.17	41.83	39.00	31.77	31.77	31.77	31.77	26.11	20.38	16.96	16.96	14.80	14.80	14.80	9.71	19.00	19.00	0.00	0.00	0.00	29.65	29.65	34.91	30.17
Pounds per Day	4.69	4.24	4.24	3.21	3.21	2.69	2.28	2.28	2.79	2.93	1.57	1.57	1.82	1.70	1.38	1.38	1.38	1.38	1.14	0.89	0.74	0.74	0.64	0.64	0.64	0.42	0.83	0.83	0.00	0.00	0.00	1.29	1.29	1.52	1.31
Yearly Maximums	821	755	697	631	589	547	517	490	458	411	361	339	318	291	262	249	236	204	173	146	156	168	186	202	220	239	260	273	285	316	353	405	428	453	470
Maximum Pounds per Day																																			
Maximum Pounds per Hour [a]																																			
Maximum Pounds per Month																																			
Month with Maximum																																			
Maximum Pounds per Year																																			
Maximum Average Pounds per Hour [a]																																			
Year with Maximum																																			
Tons per Year																																			

Onsite Fugitive $PM_{2.5}$ Emissions

	Fugitive $PM_{2.5}$ Emissions by Month																																		
Construction Step	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 3 & 4 Demolition																																			
Total (lbs/month)	5.67																																		
Total (lbs/day)	0.25																																		
Block 1 Construction																																			
Total (lbs/month)	5.58	5.58	5.58	5.58	4.79	4.79	4.79	4.79	4.81	4.81																									
Total (lbs/day)	0.24	0.24	0.24	0.24	0.21	0.21	0.21	0.21	0.21	0.21																									
Block 2 Construction																																			
Total (lbs/month)	19.23	38.44	38.44	23.21	23.21	23.20	7.98	7.18	7.18	7.18	7.18	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	4.79	4.80	4.80							
Total (lbs/day)	0.84	1.67	1.67	1.01	1.01	1.01	0.35	0.31	0.31	0.31	0.31	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.21	0.21	0.21							
Units 1 & 2 Demolition																																			
Total (lbs/month)																																6.01	6.01	6.01	6.01
Total (lbs/day)																																0.26	0.26	0.26	0.26
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite Fugitive $PM_{2.5}$ Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																																			
Pounds per Month	30.48	44.02	44.02	28.80	28.00	27.99	12.76	11.96	11.99	11.99	7.18	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	5.58	4.79	4.80	4.80	0.00	0.00	0.00	6.01	6.01	6.01	6.01
Pounds per Day	1.33	1.91	1.91	1.25	1.22	1.22	0.55	0.52	0.52	0.52	0.31	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.21	0.21	0.21	0.00	0.00	0.00	0.26	0.26	0.26	0.26
Yearly Maximums	265	240	201	163	140	117	95	88	81	75	69	67	67	67	66	65	65	59	53	48	48	49	49	50	50	50	52	53	54	60	69	94	114	133	151
Maximum Pounds per Day																																			
Maximum Pounds per Hour [a]																																			
Maximum Pounds per Month																																			
Month with Maximum																																			
Maximum Pounds per Year																																			
Maximum Average Pounds per Hour [a]																																			
Year with Maximum																																			
Tons per Year																																			

Table 5.1A.58R Onsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

	Total $PM_{2.5}$ Emissions by Month																																				
Parameter	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
Pounds per Month	138.37	141.66	141.66	102.59	101.76	89.78	65.20	64.37	76.15	79.30	43.40	41.75	47.41	44.58	37.36	37.36	37.36	37.36	31.70	25.96	22.54	22.54	20.38	20.38	20.38	14.49	23.80	23.80	0.00	0.00	0.00	35.65	35.65	40.91	36.18
Pounds per Day	6.02	6.16	6.16	4.46	4.42	3.90	2.83	2.80	3.31	3.45	1.89	1.82	2.06	1.94	1.62	1.62	1.62	1.62	1.38	1.13	0.98	0.98	0.89	0.89	0.89	0.63	1.03	1.03	0.00	0.00	0.00	1.55	1.55	1.78	1.57
Yearly Maximums	1,086	995	898	794	728	664	612	578	540	486	429	406	385	358	328	314	301	263	226	194	204	217	235	251	270	289	312	325	339	376	422	500	542	586	621
Maximum Pounds per Day																																			
Maximum Pounds per Hour [a]																																			
Maximum Pounds per Month																																			
Month with Maximum																																			
Maximum Pounds per Year																																			
Maximum Average Pounds per Hour [b]																																			
Year with Maximum																																			
Tons per Year																																			

Onsite CO_2 Emissions

	CO_2 Emissions by Month																																				
Construction Step	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Units 3 & 4 Demolition																																			
Total (lbs/month)	102.87																																		
Total (lbs/day)	4.47																																		
Block 1 Construction																																			
Total (metric tons/month)	45.42	41.94	41.94	41.94	26.34	26.34	23.30	23.30	37.71	37.71																									
Total (metric tons/day)	1.97	1.82	1.82	1.82	1.15	1.15	1.01	1.01	1.64	1.64																									
Block 2 Construction																																			
Total (metric tons/month)	45.05	105.81	105.81	82.28	97.79	80.22	79.87	79.78	79.78	87.54	79.78	79.60	95.11	87.36	69.40	69.40	69.40	69.40	53.90	45.38	41.91	41.91	41.91	41.91	41.91	26.31	40.72	40.72							
Total (metric tons/day)	1.96	4.60	4.60	3.58	4.25	3.49	3.47	3.47	3.47	3.81	3.47	3.46	4.14	3.80	3.02	3.02	3.02	3.02	2.34	1.97	1.82	1.82	1.82	1.82	1.82	1.14	1.77	1.77							
Units 1 & 2 Demolition																																			
Total (metric tons/month)																																74.46	74.46	89.15	89.15
Total (metric tons/day)																																3.24	3.24	3.88	3.88
Bldgs. 33 & 34 Construction																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Total Onsite CO_2 Emissions (Construction Equipment and Vehicles)																																			
Metric Tons per Month	193.33	147.75	147.75	124.22	124.13	106.56	103.17	103.08	117.50	125.25	79.78	79.60	95.11	87.36	69.40	69.40	69.40	69.40	53.90	45.38	41.91	41.91	41.91	41.91	41.91	26.31	40.72	40.72	0.00	0.00	0.00	74.46	74.46	89.15	89.15
Metric Tons per Day	8.41	6.42	6.42	5.40	5.40	4.63	4.49	4.48	5.11	5.45	3.47	3.46	4.14	3.80	3.02	3.02	3.02	3.02	2.34	1.97	1.82	1.82	1.82	1.82	1.82	1.14	1.77	1.77	0.00	0.00	0.00	3.24	3.24	3.88	3.88
Yearly Maximums	1,452	1,354	1,294	1,215	1,160	1,106	1,068	1,019	962	886	803	765	727	674	613	584	555	486	417	363	392	424	472	519	576	634	699	750	801	892	992	1,114	1,162	1,218	1,255
Maximum Metric Tons per Day																																			
Maximum Metric Tons per Hour [a]																																			
Maximum Metric Tons per Month																																			
Month with Maximum																																			
Maximum Metric Tons per Year																																			
Maximum Average Metric Tons per Hour [b]																																			
Year with Maximum																																			

Onsite N_2O Emissions

	N_2O Emissions by Month																																				
Construction Step	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Units 3 & 4 Demolition																																			
Total (lbs/month)	0.00261																																		
Total (lbs/day)	0.00011																																		
Block 1 Construction																																			
Total (metric tons/month)	0.00115	0.00106	0.00106	0.00106	0.00066	0.00066	0.00059	0.00059	0.00095	0.00095																									
Total (metric tons/day)	0.00005	0.00005	0.00005	0.00005	0.00003	0.00003	0.00003	0.00003	0.00004	0.00004																									
Block 2 Construction																																			
Total (metric tons/month)	0.00114	0.00268	0.00268	0.00208	0.00247	0.00203	0.00202	0.00202	0.00202	0.00222	0.00202	0.00202	0.00241	0.00222	0.00176	0.00176	0.00176	0.00176	0.00136	0.00115	0.00106	0.00106	0.00106	0.00106	0.00106	0.00066	0.00103	0.00103							
Total (metric tons/day)	0.00005	0.00012	0.00012	0.00009	0.00011	0.00009	0.00009	0.00009	0.00009	0.00010	0.00009	0.00009	0.00010	0.00010	0.00008	0.00008	0.00008	0.00008	0.00006	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00003	0.00004	0.00004							
Units 1 & 2 Demolition																																0.00189	0.00189	0.00226	0.00226
Total (metric tons/month)																																0.00008	0.00008	0.00010	0.00010
Total (metric tons/day)																																			
Bldgs. 33 & 34 Construction																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Total Onsite N_2O Emissions (Construction Equipment and Vehicles)																																			
Metric Tons per Month	0.00490	0.00374	0.00374	0.00314	0.00314	0.00269	0.00261	0.00261	0.00297	0.00317	0.00202	0.00202	0.00241	0.00222	0.00176	0.00176	0.00176	0.00176	0.00136	0.00115	0.00106	0.00106	0.00106	0.00106	0.00106	0.00066	0.00103	0.00103	0.00000	0.00000	0.00000	0.00189	0.00189	0.00226	0.00226
Metric Tons per Day	0.00021	0.00016	0.00016	0.00014	0.00014	0.00012	0.00011	0.00011	0.00013	0.00014	0.00009	0.00009	0.00010	0.00010	0.00008	0.00008	0.00008	0.00008	0.00006	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00003	0.00004	0.00004	0.00000	0.00000	0.00000	0.00008	0.00008	0.00010	0.00010
Yearly Maximums	0.03674	0.03425	0.03273	0.03075	0.02937	0.02799	0.02705	0.02581	0.02435	0.02244	0.02033	0.01937	0.01841	0.01705	0.01550	0.01477	0.01405	0.01229	0.01053	0.00916	0.00991	0.01074	0.01194	0.01314	0.01461	0.01607	0.01773	0.01903	0.02032	0.02265	0.02516	0.02827	0.02948	0.03090	0.03183
Maximum Metric Tons per Day																																			
Maximum Metric Tons per Hour [a]																																			
Maximum Metric Tons per Month																																			
Month with Maximum																																			
Maximum Metric Tons per Year																																			
Maximum Average Metric Tons per Hour [b]																																			
Year with Maximum																																			

Onsite CH_4 Emissions

	CH_4 Emissions by Month																																				
Construction Step	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Units 3 & 4 Demolition																																			
Total (lbs/month)	0.00583																																		
Total (lbs/day)	0.00025																																		
Block 1 Construction																																			
Total (metric tons/month)	0.00256	0.00236	0.00236	0.00236	0.00148	0.00148	0.00131	0.00131	0.00213	0.00213																									
Total (metric tons/day)	0.00011	0.00010	0.00010	0.00010	0.00006	0.00006	0.00006	0.00006	0.00009	0.00009																									
Block 2 Construction																																			
Total (metric tons/month)	0.00254	0.00598	0.00598	0.00464	0.00552	0.00452	0.00450	0.00450	0.00450	0.00494	0.00450	0.00450	0.00538	0.00494	0.00392	0.00392	0.00392	0.00392	0.00304	0.00256	0.00236	0.00236	0.00236	0.00236	0.00236	0.00148	0.00230	0.00230							
Total (metric tons/day)	0.00011	0.00026	0.00026	0.00020	0.00024	0.00020	0.00020	0.00020	0.00020	0.00021	0.00020	0.00020	0.00023	0.00021	0.00017	0.00017	0.00017	0.00017	0.00013	0.00011	0.00010	0.00010	0.00010	0.00010	0.00010	0.00006	0.00010	0.00010							
Units 1 & 2 Demolition																																0.00421	0.00421	0.00505	0.00505
Total (metric tons/month)																																0.00018	0.00018	0.00022	0.00022
Total (metric tons/day)																																			
Bldgs. 33 & 34 Construction																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Total Onsite CH_4 Emissions (Construction Equipment and Vehicles)																																			
Metric Tons per Month	0.01093	0.00834	0.00834	0.00700	0.00700	0.00600	0.00581	0.00581	0.00663	0.00707	0.00450	0.00450	0.00538	0.00494	0.00392	0.00392	0.00392	0.00392	0.00304	0.00256	0.00236	0.00236	0.00236	0.00236	0.00236	0.00148	0.00230	0.00230	0.00000	0.00000	0.00000	0.00421	0.00421	0.00505	0.00505
Metric Tons per Day	0.00048	0.00036	0.00036	0.00030	0.00030	0.00026	0.00025	0.00025	0.00029	0.00031	0.00020	0.00020	0.00023	0.00021	0.00017	0.00017	0.00017	0.00017	0.00013	0.00011	0.00010	0.00010	0.00010	0.00010	0.00010	0.00006	0.00010	0.00010	0.00000	0.00000	0.00000	0.00018	0.00018	0.00022	0.00022
Yearly Maximums	0.08195	0.07640	0.07300	0.06859	0.06551	0.06243	0.06035	0.05758	0.05433	0.05006	0.04535	0.04321	0.04106	0.03804	0.03458	0.03295	0.03133	0.02741	0.02348	0.02044	0.02210	0.02395	0.02663	0.02932	0.03258	0.03585	0.03955	0.04244	0.04533	0.05052	0.05613	0.06305	0.06576	0.06892	0.07100
Maximum Metric Tons per Day																																			
Maximum Metric Tons per Hour [a]																																			
Maximum Metric Tons per Month																																			
Month with Maximum																																			
Maximum Metric Tons per Year																																			
Maximum Average Metric Tons per Hour [b]																																			
Year with Maximum																																			

Notes:
[a] The hours per day are per 'Manpower Schedule Huntington Be
[b] The hours per year are assumed to allow operation 24 hours per

Table 5.1A.58R Onsite Construction
Exhaust and Fugitive Emissions Summary

Onsite CO Emissions

Construction Step	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 3 & 4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 1 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 2 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 1 & 2 Demolition																				
Total (lbs/month)	968.63	968.63	932.20	932.20	932.20	932.20	932.20	932.20	932.20	932.20	932.20	932.20	1,018.89	1,018.89	1,018.89	1,018.89	1,018.89	1,018.89	1,018.89	1,018.89
Total (lbs/day)	42.11	42.11	40.53	40.53	40.53	40.53	40.53	40.53	40.53	40.53	40.53	40.53	44.30	44.30	44.30	44.30	44.30	44.30	44.30	44.30
Bldgs. 33 & 34 Construction																				
Total (lbs/month)							106.76	421.56	421.56	457.49	401.39	401.39	86.95	86.95	86.95	86.95	86.95	86.95	86.95	86.95
Total (lbs/day)							4.64	18.33	18.33	19.89	17.45	17.45	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78
Total Onsite CO Emissions (Construction Equipment and Vehicles)																				
Pounds per Month	**968.63**	**968.63**	**932.20**	**932.20**	**932.20**	**932.20**	**1,038.95**	**1,353.76**	**1,353.76**	**1,389.69**	**1,333.59**	**1,333.59**	**1,105.84**	**1,105.84**	**1,105.84**	**1,105.84**	**1,105.84**	**1,105.84**	**1,105.84**	**1,105.84**
Pounds per Day	**42.11**	**42.11**	**40.53**	**40.53**	**40.53**	**40.53**	**45.17**	**58.86**	**58.86**	**60.42**	**57.98**	**57.98**	**48.08**	**48.08**	**48.08**	**48.08**	**48.08**	**48.08**	**48.08**	**48.08**
Yearly Maximums	**13,469**	**13,607**	**13,744**	**13,917**	**14,091**	**14,265**	**14,438**	**14,505**	**14,257**											

Maximum Pounds per Day	
Maximum Pounds per Hour [a]	
Maximum Pounds per Month	
Month with Maximum	
Maximum Pounds per Year	
Maximum Average Pounds per Hour [b]	
Year with Maximum	
Tons per Year	

Onsite VOC Emissions

Construction Step	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 3 & 4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 1 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 2 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 1 & 2 Demolition																				
Total (lbs/month)	137.43	137.43	126.93	126.93	126.93	126.93	126.93	126.93	126.93	126.93	126.93	126.93	144.53	144.53	144.53	144.53	144.53	144.53	144.53	144.53
Total (lbs/day)	5.98	5.98	5.52	5.52	5.52	5.52	5.52	5.52	5.52	5.52	5.52	5.52	6.28	6.28	6.28	6.28	6.28	6.28	6.28	6.28
Bldgs. 33 & 34 Construction																				
Total (lbs/month)							13.69	55.46	55.46	65.39	58.48	58.48	16.91	16.91	16.91	16.91	16.91	16.91	16.91	16.91
Total (lbs/day)							0.60	2.41	2.41	2.84	2.54	2.54	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Total Onsite VOC Emissions (Construction Equipment and Vehicles)																				
Pounds per Month	**137.43**	**137.43**	**126.93**	**126.93**	**126.93**	**126.93**	**140.62**	**182.39**	**182.39**	**192.32**	**185.41**	**185.41**	**161.43**	**161.43**	**161.43**	**161.43**	**161.43**	**161.43**	**161.43**	**161.43**
Pounds per Day	**5.98**	**5.98**	**5.52**	**5.52**	**5.52**	**5.52**	**6.11**	**7.93**	**7.93**	**8.36**	**8.06**	**8.06**	**7.02**	**7.02**	**7.02**	**7.02**	**7.02**	**7.02**	**7.02**	**7.02**
Yearly Maximums	**1,851**	**1,875**	**1,899**	**1,934**	**1,968**	**2,003**	**2,037**	**2,058**	**2,037**											

Maximum Pounds per Day	
Maximum Pounds per Hour [a]	
Maximum Pounds per Month	
Month with Maximum	
Maximum Pounds per Year	
Maximum Average Pounds per Hour [b]	
Year with Maximum	
Tons per Year	

Onsite NOx Emissions

Construction Step	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 3 & 4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 1 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 2 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 1 & 2 Demolition																				
Total (lbs/month)	724.25	724.25	658.49	658.49	658.49	658.49	658.49	658.49	658.49	658.49	658.49	582.51	679.22	679.22	679.22	679.22	679.22	679.22	679.22	679.22
Total (lbs/day)	31.49	31.49	28.63	28.63	28.63	28.63	28.63	28.63	28.63	28.63	28.63	25.33	29.53	29.53	29.53	29.53	29.53	29.53	29.53	29.53
Bldgs. 33 & 34 Construction																				
Total (lbs/month)							89.32	343.70	343.70	409.47	362.08	330.56	97.79	97.79	97.79	97.79	97.79	97.79	97.79	97.79
Total (lbs/day)							3.88	14.94	14.94	17.80	15.74	14.37	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
Total Onsite NOx Emissions (Construction Equipment and Vehicles)																				
Pounds per Month	**724.25**	**724.25**	**658.49**	**658.49**	**658.49**	**658.49**	**747.81**	**1,002.19**	**1,002.19**	**1,067.96**	**1,020.56**	**913.07**	**777.01**	**777.01**	**777.01**	**777.01**	**777.01**	**777.01**	**777.01**	**777.01**
Pounds per Day	**31.49**	**31.49**	**28.63**	**28.63**	**28.63**	**28.63**	**32.51**	**43.57**	**43.57**	**46.43**	**44.37**	**39.70**	**33.78**	**33.78**	**33.78**	**33.78**	**33.78**	**33.78**	**33.78**	**33.78**
Yearly Maximums	**9,836**	**9,889**	**9,942**	**10,060**	**10,179**	**10,297**	**10,416**	**10,445**	**10,220**											

Maximum Pounds per Day	
Maximum Pounds per Hour [a]	
Maximum Pounds per Month	
Month with Maximum	
Maximum Pounds per Year	
Maximum Average Pounds per Hour [b]	
Year with Maximum	
Tons per Year	

Table 5.1A.58R Onsite Construction
Exhaust and Fugitive Emissions Summary

Onsite SOx Emissions

Construction Step	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 3 & 4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 1 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 2 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 1 & 2 Demolition																				
Total (lbs/month)	2.20	2.20	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
Total (lbs/day)	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Bldgs. 33 & 34 Construction																				
Total (lbs/month)							0.17	0.70	0.70	0.88	0.78	0.78	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Total (lbs/day)							0.01	0.03	0.03	0.04	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total Onsite SOx Emissions (Construction Equipment and Vehicles)																				
Pounds per Month	**2.20**	**2.20**	**2.03**	**2.03**	**2.03**	**2.03**	**2.20**	**2.73**	**2.73**	**2.90**	**2.81**	**2.81**	**2.54**	**2.54**	**2.54**	**2.54**	**2.54**	**2.54**	**2.54**	**2.54**
Pounds per Day	**0.10**	**0.10**	**0.09**	**0.09**	**0.09**	**0.09**	**0.10**	**0.12**	**0.12**	**0.13**	**0.12**	**0.12**	**0.11**	**0.11**	**0.11**	**0.11**	**0.11**	**0.11**	**0.11**	**0.11**
Yearly Maximums	**29**	**29**	**29**	**30**	**30**	**31**	**31**	**32**	**32**											

Maximum Pounds per Day	
Maximum Pounds per Hour [a]	
Maximum Pounds per Month	
Month with Maximum	
Maximum Pounds per Year	
Maximum Average Pounds per Hour [b]	
Year with Maximum	
Tons per Year	

Onsite Exhaust PM_{10} Emissions

Construction Step	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 3 & 4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 1 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 2 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 1 & 2 Demolition																				
Total (lbs/month)	33.47	33.47	31.20	31.20	31.20	31.20	31.20	31.20	31.20	31.20	31.20	26.80	31.04	31.04	31.04	31.04	31.04	31.04	31.04	31.04
Total (lbs/day)	1.46	1.46	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.17	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
Bldgs. 33 & 34 Construction																				
Total (lbs/month)							5.54	21.24	21.24	23.51	20.60	18.15	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
Total (lbs/day)							0.24	0.92	0.92	1.02	0.90	0.79	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Total Onsite Exhaust PM_{10} Emissions (Construction Equipment and Vehicles)																				
Pounds per Month	**33.47**	**33.47**	**31.20**	**31.20**	**31.20**	**31.20**	**36.73**	**52.44**	**52.44**	**54.71**	**51.80**	**44.94**	**35.34**	**35.34**	**35.34**	**35.34**	**35.34**	**35.34**	**35.34**	**35.34**
Pounds per Day	**1.46**	**1.46**	**1.36**	**1.36**	**1.36**	**1.36**	**1.60**	**2.28**	**2.28**	**2.38**	**2.25**	**1.95**	**1.54**	**1.54**	**1.54**	**1.54**	**1.54**	**1.54**	**1.54**	**1.54**
Yearly Maximums	**485**	**487**	**489**	**493**	**497**	**501**	**505**	**504**	**487**											

Maximum Pounds per Day	
Maximum Pounds per Hour [a]	
Maximum Pounds per Month	
Month with Maximum	
Maximum Pounds per Year	
Maximum Average Pounds per Hour [b]	
Year with Maximum	
Tons per Year	

Onsite Fugitive PM_{10} Emissions

Construction Step	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 3 & 4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 1 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 2 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 1 & 2 Demolition																				
Total (lbs/month)	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20
Total (lbs/day)	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31
Bldgs. 33 & 34 Construction																				
Total (lbs/month)							31.90	67.66	67.66	67.66	59.69	59.69	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90
Total (lbs/day)							1.39	2.94	2.94	2.94	2.60	2.60	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
Total Onsite Fugitive PM_{10} Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																				
Pounds per Month	**53.20**	**53.20**	**53.20**	**53.20**	**53.20**	**53.20**	**85.10**	**120.86**	**120.86**	**120.86**	**112.89**	**112.89**	**85.10**	**85.10**	**85.10**	**85.10**	**85.10**	**85.10**	**85.10**	**85.10**
Pounds per Day	**2.31**	**2.31**	**2.31**	**2.31**	**2.31**	**2.31**	**3.70**	**5.25**	**5.25**	**5.25**	**4.91**	**4.91**	**3.70**	**3.70**	**3.70**	**3.70**	**3.70**	**3.70**	**3.70**	**3.70**
Yearly Maximums	**993**	**1,025**	**1,056**	**1,088**	**1,120**	**1,152**	**1,184**	**1,184**	**1,148**											

Maximum Pounds per Day	
Maximum Pounds per Hour [a]	
Maximum Pounds per Month	
Month with Maximum	
Maximum Pounds per Year	
Maximum Average Pounds per Hour [b]	
Year with Maximum	
Tons per Year	

Table 5.1A.58R Onsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite PM_{10} Emissions (Exhaust and Fugitive)

Parameter	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Pounds per Month	86.67	86.67	84.40	84.40	84.40	84.40	121.84	173.30	173.30	175.57	164.69	157.83	120.44	120.44	120.44	120.44	120.44	120.44	120.44	120.44
Pounds per Day	3.77	3.77	3.67	3.67	3.67	3.67	5.30	7.53	7.53	7.63	7.16	6.86	5.24	5.24	5.24	5.24	5.24	5.24	5.24	5.24
Yearly Maximums	1,477	1,511	1,545	1,581	1,617	1,653	1,689	1,688	1,635											
Maximum Pounds per Day																				
Maximum Pounds per Hour [a]																				
Maximum Pounds per Month																				
Month with Maximum																				
Maximum Pounds per Year																				
Maximum Average Pounds per Hour [a]																				
Year with Maximum																				
Tons per Year																				

Onsite Exhaust $PM_{2.5}$ Emissions

Construction Step	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 3 & 4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 1 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 2 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 1 & 2 Demolition																				
Total (lbs/month)	33.45	33.45	31.18	31.18	31.18	31.18	31.18	31.18	31.18	31.18	31.18	26.78	31.03	31.03	31.03	31.03	31.03	31.03	31.03	31.03
Total (lbs/day)	1.45	1.45	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.16	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
Bldgs. 33 & 34 Construction																				
Total (lbs/month)							5.53	21.23	21.23	23.50	20.60	18.14	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29
Total (lbs/day)							0.24	0.92	0.92	1.02	0.90	0.79	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Total Onsite Exhaust $PM_{2.5}$ Emissions (Construction Equipment and Vehicles)																				
Pounds per Month	33.45	33.45	31.18	31.18	31.18	31.18	36.71	52.41	52.41	54.68	51.78	44.92	35.31	35.31	35.31	35.31	35.31	35.31	35.31	35.31
Pounds per Day	1.45	1.45	1.36	1.36	1.36	1.36	1.60	2.28	2.28	2.38	2.25	1.95	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
Yearly Maximums	485	486	488	492	497	501	505	503	486											
Maximum Pounds per Day																				
Maximum Pounds per Hour [a]																				
Maximum Pounds per Month																				
Month with Maximum																				
Maximum Pounds per Year																				
Maximum Average Pounds per Hour [a]																				
Year with Maximum																				
Tons per Year																				

Onsite Fugitive $PM_{2.5}$ Emissions

Construction Step	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 3 & 4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 1 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 2 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 1 & 2 Demolition																				
Total (lbs/month)	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01
Total (lbs/day)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Bldgs. 33 & 34 Construction																				
Total (lbs/month)							3.19	19.22	19.22	19.22	18.43	18.43	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19
Total (lbs/day)							0.14	0.84	0.84	0.84	0.80	0.80	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Total Onsite Fugitive $PM_{2.5}$ Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																				
Pounds per Month	6.01	6.01	6.01	6.01	6.01	6.01	9.20	25.23	25.23	25.23	24.43	24.43	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20
Pounds per Day	0.26	0.26	0.26	0.26	0.26	0.26	0.40	1.10	1.10	1.10	1.06	1.06	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Yearly Maximums	170	173	176	179	183	186	189	189	173											
Maximum Pounds per Day																				
Maximum Pounds per Hour [a]																				
Maximum Pounds per Month																				
Month with Maximum																				
Maximum Pounds per Year																				
Maximum Average Pounds per Hour [a]																				
Year with Maximum																				
Tons per Year																				

Table 5.1A.58R Onsite Construction
Exhaust and Fugitive Emissions Summary

Total Onsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

Parameter	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Pounds per Month	39.46	39.46	37.19	37.19	37.19	37.19	45.90	77.64	77.64	79.91	76.21	69.35	44.51	44.51	44.51	44.51	44.51	44.51	44.51	44.51
Pounds per Day	1.72	1.72	1.62	1.62	1.62	1.62	2.00	3.38	3.38	3.47	3.31	3.02	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94
Yearly Maximums	654	659	664	672	679	686	694	692	659											
Maximum Pounds per Day																				
Maximum Pounds per Hour [a]																				
Maximum Pounds per Month																				
Month with Maximum																				
Maximum Pounds per Year																				
Maximum Average Pounds per Hour [b]																				
Year with Maximum																				
Tons per Year																				

Onsite CO_2 Emissions

Construction Step	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																				
Total (metric tons/month)																				
Total (metric tons/day)																				
Units 3 & 4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 1 Construction																				
Total (metric tons/month)																				
Total (metric tons/day)																				
Block 2 Construction																				
Total (metric tons/month)																				
Total (metric tons/day)																				
Units 1 & 2 Demolition																				
Total (metric tons/month)	99.35	99.35	91.59	91.59	91.59	91.59	91.59	91.59	91.59	91.59	91.59	91.59	102.82	102.82	102.82	102.82	102.82	102.82	102.82	102.82
Total (metric tons/day)	4.32	4.32	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	4.47	4.47	4.47	4.47	4.47	4.47	4.47	4.47
Bldgs. 33 & 34 Construction																				
Total (metric tons/month)							7.73	30.91	30.91	38.64	34.53	34.53	11.45	11.45	11.45	11.45	11.45	11.45	11.45	11.45
Total (metric tons/day)							0.34	1.34	1.34	1.68	1.50	1.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Total Onsite CO_2 Emissions (Construction Equipment and Vehicles)																				
Metric Tons per Month	99.35	99.35	91.59	91.59	91.59	91.59	99.32	122.50	122.50	130.24	126.13	126.13	114.27	114.27	114.27	114.27	114.27	114.27	114.27	114.27
Metric Tons per Day	4.32	4.32	3.98	3.98	3.98	3.98	4.32	5.33	5.33	5.66	5.48	5.48	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97
Yearly Maximums	1,292	1,307	1,322	1,344	1,367	1,390	1,412	1,427	1,419											
Maximum Metric Tons per Day																				
Maximum Metric Tons per Hour [a]																				
Maximum Metric Tons per Month																				
Month with Maximum																				
Maximum Metric Tons per Year																				
Maximum Average Metric Tons per Hour [b]																				
Year with Maximum																				

Onsite N_2O Emissions

Construction Step	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																				
Total (metric tons/month)																				
Total (metric tons/day)																				
Units 3 & 4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 1 Construction																				
Total (metric tons/month)																				
Total (metric tons/day)																				
Block 2 Construction																				
Total (metric tons/month)																				
Total (metric tons/day)																				
Units 1 & 2 Demolition																				
Total (metric tons/month)	0.00252	0.00252	0.00232	0.00232	0.00232	0.00232	0.00232	0.00232	0.00232	0.00232	0.00232	0.00232	0.00261	0.00261	0.00261	0.00261	0.00261	0.00261	0.00261	0.00261
Total (metric tons/day)	0.00011	0.00011	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00011	0.00011	0.00011	0.00011	0.00011	0.00011	0.00011	0.00011
Bldgs. 33 & 34 Construction																				
Total (metric tons/month)							0.00019	0.00078	0.00078	0.00098	0.00087	0.00087	0.00029	0.00029	0.00029	0.00029	0.00029	0.00029	0.00029	0.00029
Total (metric tons/day)							0.00001	0.00003	0.00003	0.00004	0.00004	0.00004	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
Total Onsite N_2O Emissions (Construction Equipment and Vehicles)																				
Metric Tons per Month	0.00252	0.00252	0.00232	0.00232	0.00232	0.00232	0.00252	0.00310	0.00310	0.00330	0.00320	0.00320	0.00290	0.00290	0.00290	0.00290	0.00290	0.00290	0.00290	0.00290
Metric Tons per Day	0.00011	0.00011	0.00010	0.00010	0.00010	0.00010	0.00011	0.00013	0.00013	0.00014	0.00014	0.00014	0.00013	0.00013	0.00013	0.00013	0.00013	0.00013	0.00013	0.00013
Yearly Maximums	0.03277	0.03314	0.03352	0.03409	0.03466	0.03523	0.03581	0.03619	0.03598											
Maximum Metric Tons per Day																				
Maximum Metric Tons per Hour [a]																				
Maximum Metric Tons per Month																				
Month with Maximum																				
Maximum Metric Tons per Year																				
Maximum Average Metric Tons per Hour [b]																				
Year with Maximum																				

Onsite CH_4 Emissions

Construction Step	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																				
Total (metric tons/month)																				
Total (metric tons/day)																				
Units 3 & 4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 1 Construction																				
Total (metric tons/month)																				
Total (metric tons/day)																				
Block 2 Construction																				
Total (metric tons/month)																				
Total (metric tons/day)																				
Units 1 & 2 Demolition																				
Total (metric tons/month)	0.00563	0.00563	0.00519	0.00519	0.00519	0.00519	0.00519	0.00519	0.00519	0.00519	0.00519	0.00519	0.00582	0.00582	0.00582	0.00582	0.00582	0.00582	0.00582	0.00582
Total (metric tons/day)	0.00024	0.00024	0.00023	0.00023	0.00023	0.00023	0.00023	0.00023	0.00023	0.00023	0.00023	0.00023	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025
Bldgs. 33 & 34 Construction																				
Total (metric tons/month)							0.00043	0.00174	0.00174	0.00218	0.00195	0.00195	0.00064	0.00064	0.00064	0.00064	0.00064	0.00064	0.00064	0.00064
Total (metric tons/day)							0.00002	0.00008	0.00008	0.00009	0.00008	0.00008	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003
Total Onsite CH_4 Emissions (Construction Equipment and Vehicles)																				
Metric Tons per Month	0.00563	0.00563	0.00519	0.00519	0.00519	0.00519	0.00561	0.00692	0.00692	0.00736	0.00714	0.00714	0.00646	0.00646	0.00646	0.00646	0.00646	0.00646	0.00646	0.00646
Metric Tons per Day	0.00024	0.00024	0.00023	0.00023	0.00023	0.00023	0.00024	0.00030	0.00030	0.00032	0.00031	0.00031	0.00028	0.00028	0.00028	0.00028	0.00028	0.00028	0.00028	0.00028
Yearly Maximums	0.07309	0.07393	0.07476	0.07604	0.07731	0.07859	0.07987	0.08072	0.08025											
Maximum Metric Tons per Day																				
Maximum Metric Tons per Hour [a]																				
Maximum Metric Tons per Month																				
Month with Maximum																				
Maximum Metric Tons per Year																				
Maximum Average Metric Tons per Hour [b]																				
Year with Maximum																				

Notes:
[a] The hours per day are per 'Manpower Schedule Huntington B
[b] The hours per year are assumed to allow operation 24 hours pe

Table 5.1A.59R Offsite Construction
Exhaust and Fugitive Emissions
Summary

Offsite CO Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
Peaker and Tank Area and Stack 3&4 Demolition																																									
Total (lbs/month)	0.94	18.82	22.21	42.82	67.17	74.41	104.74	111.23	119.71	117.72	110.66	76.48	69.99	40.34	30.17																										
Total (lbs/day)	0.04	0.82	0.97	1.86	2.92	3.24	4.55	4.84	5.20	5.12	4.81	3.33	3.04	1.75	1.31																										
Units 3 & 4 Demolition																																									
Total (lbs/month)										41.26	46.49	70.05	94.14	98.68	108.10	110.19	110.19	120.65	120.65	136.33	136.33	141.56	146.79	146.79	146.79	146.79	146.79	146.79	133.19	129.88	89.57	79.63	53.19	146.79	146.79	146.79					
Total (lbs/day)										1.79	2.02	3.05	4.09	4.29	4.70	4.79	4.79	5.25	5.25	5.93	5.93	6.15	6.38	6.38	6.38	6.38	6.38	6.38	5.79	5.65	3.89	3.46	2.31	6.38	6.38	6.38					
Block 1 Construction																																									
Total (lbs/month)																5.08	62.73	71.08	84.90	117.30	123.58	131.69	138.95	164.22	183.08	217.47	215.31	246.99	253.04	261.99	267.54	303.91	320.33	321.77	343.77	346.06	364.91	342.59	358.17	358.17	367.60
Total (lbs/day)																0.22	2.73	3.09	3.69	5.10	5.37	5.73	6.04	7.14	7.96	9.46	9.36	10.74	11.00	11.39	11.63	13.21	13.93	13.99	14.95	15.05	15.87	14.90	15.57	15.57	15.98
Block 2 Construction																																									
Total (lbs/month)																																				51.40	67.56	95.52	128.18	156.17	177.12
Total (lbs/day)																																				2.23	2.94	4.15	5.57	6.79	7.70
Units 1 & 2 Demolition																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Bldgs. 33 & 34 Construction																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Total Offsite CO Emissions (Construction Vehicles)																																									
Pounds per Month	**0.94**	**18.82**	**22.21**	**42.82**	**67.17**	**74.41**	**104.74**	**111.23**	**119.71**	**158.98**	**157.15**	**146.53**	**164.12**	**139.02**	**138.28**	**115.27**	**172.92**	**191.72**	**205.54**	**253.63**	**259.92**	**273.25**	**285.74**	**311.01**	**329.86**	**364.26**	**362.10**	**393.78**	**386.23**	**391.86**	**357.11**	**383.54**	**373.53**	**468.56**	**490.56**	**544.25**	**432.47**	**438.12**	**486.35**	**514.34**	**544.72**
Pounds per Day	**0.04**	**0.82**	**0.97**	**1.86**	**2.92**	**3.24**	**4.55**	**4.84**	**5.20**	**6.91**	**6.83**	**6.37**	**7.14**	**6.04**	**6.01**	**5.01**	**7.52**	**8.34**	**8.94**	**11.03**	**11.30**	**11.88**	**12.42**	**13.52**	**14.34**	**15.84**	**15.74**	**17.12**	**16.79**	**17.04**	**15.53**	**16.68**	**16.24**	**20.37**	**21.33**	**23.66**	**18.80**	**19.05**	**21.15**	**22.36**	**23.68**
Yearly Maximums	**1,025**	**1,188**	**1,308**	**1,424**	**1,497**	**1,602**	**1,720**	**1,820**	**1,963**	**2,103**	**2,217**	**2,346**	**2,510**	**2,676**	**2,901**	**3,125**	**3,404**	**3,617**	**3,817**	**3,969**	**4,099**	**4,212**	**4,408**	**4,612**	**4,846**	**4,948**	**5,022**	**5,146**	**5,267**	**5,425**	**5,579**	**5,785**	**5,929**	**6,097**	**5,881**	**5,679**	**5,496**	**5,427**	**5,349**	**5,218**	**5,058**

Maximum Pounds per Day	**24.49**
Maximum Pounds per Hour [a]	**2.45**
Maximum Pounds per Month	**563.18**
Month with Maximum	**43**
Maximum Pounds per Year	**6,097**
Maximum Average Pounds per Hour [b]	**0.70**
Year with Maximum	**Months 34-45**
Tons per Year	**3.05**

Offsite VOC Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
Peaker and Tank Area and Stack 3&4 Demolition																																									
Total (lbs/month)	0.16	0.68	0.75	1.00	3.12	3.35	7.01	7.35	7.53	7.70	7.76	7.24	6.89	2.34	2.13																										
Total (lbs/day)	0.01	0.03	0.03	0.04	0.14	0.15	0.30	0.32	0.33	0.33	0.34	0.31	0.30	0.10	0.09																										
Units 3 & 4 Demolition																																									
Total (lbs/month)										3.98	4.86	5.33	6.58	6.41	6.60	7.42	7.42	9.19	9.19	11.83	11.83	12.72	13.60	13.60	13.60	13.60	13.60	13.60	11.77	11.45	9.09	8.11	5.47	13.60	13.60	13.60					
Total (lbs/day)										0.17	0.21	0.23	0.29	0.28	0.29	0.32	0.32	0.40	0.40	0.51	0.51	0.55	0.59	0.59	0.59	0.59	0.59	0.59	0.51	0.50	0.40	0.35	0.24	0.59	0.59	0.59					
Block 1 Construction																																									
Total (lbs/month)																0.39	1.70	2.40	2.91	4.63	4.76	5.19	6.41	7.64	8.01	9.85	10.89	12.96	13.52	13.62	13.62	13.91	12.94	12.25	12.69	12.37	12.75	9.41	8.99	8.99	9.18
Total (lbs/day)																0.02	0.07	0.10	0.13	0.20	0.21	0.23	0.28	0.33	0.35	0.43	0.47	0.56	0.59	0.59	0.59	0.60	0.56	0.53	0.55	0.54	0.55	0.41	0.39	0.39	0.40
Block 2 Construction																																									
Total (lbs/month)																																				1.12	1.39	2.07	5.48	6.12	7.19
Total (lbs/day)																																				0.05	0.06	0.09	0.24	0.27	0.31
Units 1 & 2 Demolition																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Bldgs. 33 & 34 Construction																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Total Offsite VOC Emissions (Construction Vehicles)																																									
Pounds per Month	**0.16**	**0.68**	**0.75**	**1.00**	**3.12**	**3.35**	**7.01**	**7.35**	**7.53**	**11.68**	**12.62**	**12.57**	**13.48**	**8.76**	**8.73**	**7.81**	**9.12**	**11.59**	**12.09**	**16.46**	**16.59**	**17.90**	**20.01**	**21.23**	**21.61**	**23.45**	**24.49**	**26.56**	**25.29**	**25.07**	**22.71**	**22.03**	**18.41**	**25.85**	**26.28**	**27.08**	**14.14**	**11.47**	**14.47**	**15.11**	**16.37**
Pounds per Day	**0.01**	**0.03**	**0.03**	**0.04**	**0.14**	**0.15**	**0.30**	**0.32**	**0.33**	**0.51**	**0.55**	**0.55**	**0.59**	**0.38**	**0.38**	**0.34**	**0.40**	**0.50**	**0.53**	**0.72**	**0.72**	**0.78**	**0.87**	**0.92**	**0.94**	**1.02**	**1.06**	**1.15**	**1.10**	**1.09**	**0.99**	**0.96**	**0.80**	**1.12**	**1.14**	**1.18**	**0.61**	**0.50**	**0.63**	**0.66**	**0.71**
Yearly Maximums	**68**	**81**	**89**	**97**	**104**	**110**	**118**	**123**	**132**	**141**	**148**	**155**	**164**	**172**	**187**	**202**	**221**	**237**	**251**	**261**	**267**	**269**	**277**	**283**	**289**	**281**	**269**	**259**	**248**	**239**	**231**	**222**	**215**	**213**	**200**	**187**	**173**	**173**	**176**	**174**	**171**

Maximum Pounds per Day	**1.18**
Maximum Pounds per Hour [a]	**0.12**
Maximum Pounds per Month	**27.08**
Month with Maximum	**36**
Maximum Pounds per Year	**289**
Maximum Average Pounds per Hour [b]	**0.03**
Year with Maximum	**Months 25 - 36**
Tons per Year	**0.14**

Offsite NOx Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
Peaker and Tank Area and Stack 3&4 Demolition																																									
Total (lbs/month)	2.92	7.47	7.79	5.48	40.35	42.46	106.18	111.05	111.87	102.74	105.87	106.60	102.28	29.72	28.83																										
Total (lbs/day)	0.13	0.32	0.34	0.24	1.75	1.85	4.62	4.83	4.86	4.47	4.60	4.63	4.45	1.29	1.25																										
Units 3 & 4 Demolition																																									
Total (lbs/month)										63.62	79.11	81.35	98.62	94.06	94.95	110.14	110.14	141.11	141.11	187.57	187.57	180.75	194.53	194.53	194.53	194.53	194.53	194.53	166.70	161.98	131.84	117.65	80.10	173.91	173.91	173.91					
Total (lbs/day)										2.77	3.44	3.54	4.29	4.09	4.13	4.79	4.79	6.14	6.14	8.16	8.16	7.86	8.46	8.46	8.46	8.46	8.46	8.46	7.25	7.04	5.73	5.12	3.48	7.56	7.56	7.56					
Block 1 Construction																																									
Total (lbs/month)																6.04	14.64	25.85	30.72	54.63	55.23	54.68	73.83	88.36	90.00	112.55	130.87	158.31	166.24	165.79	164.41	160.16	139.37	114.04	115.78	110.45	111.94	66.61	56.82	56.82	57.57
Total (lbs/day)																0.26	0.64	1.12	1.34	2.38	2.40	2.38	3.21	3.84	3.91	4.89	5.69	6.88	7.23	7.21	7.15	6.96	6.06	4.96	5.03	4.80	4.87	2.90	2.47	2.47	2.50
Block 2 Construction																																									
Total (lbs/month)																																				8.88	10.37	15.74	68.30	73.64	87.96
Total (lbs/day)																																				0.39	0.45	0.68	2.97	3.20	3.82
Units 1 & 2 Demolition																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Bldgs. 33 & 34 Construction																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Total Offsite NOx Emissions (Construction Vehicles)																																									
Pounds per Month	**2.92**	**7.47**	**7.79**	**5.48**	**40.35**	**42.46**	**106.18**	**111.05**	**111.87**	**166.36**	**184.97**	**187.95**	**200.91**	**123.78**	**123.78**	**116.18**	**124.78**	**166.96**	**171.83**	**242.20**	**242.79**	**235.43**	**268.35**	**282.89**	**284.53**	**307.07**	**325.40**	**352.84**	**332.95**	**327.76**	**296.25**	**277.82**	**219.47**	**287.95**	**289.69**	**293.24**	**122.31**	**82.35**	**125.13**	**130.46**	**145.53**
Pounds per Day	**0.13**	**0.32**	**0.34**	**0.24**	**1.75**	**1.85**	**4.62**	**4.83**	**4.86**	**7.23**	**8.04**	**8.17**	**8.74**	**5.38**	**5.38**	**5.05**	**5.43**	**7.26**	**7.47**	**10.53**	**10.56**	**10.24**	**11.67**	**12.30**	**12.37**	**13.35**	**14.15**	**15.34**	**14.48**	**14.25**	**12.88**	**12.08**	**9.54**	**12.52**	**12.60**	**12.75**	**5.32**	**3.58**	**5.44**	**5.67**	**6.33**
Yearly Maximums	**975**	**1,173**	**1,289**	**1,405**	**1,516**	**1,600**	**1,725**	**1,790**	**1,922**	**2,052**	**2,122**	**2,205**	**2,300**	**2,383**	**2,567**	**2,768**	**3,005**	**3,213**	**3,374**	**3,498**	**3,534**	**3,511**	**3,563**	**3,585**	**3,595**	**3,433**	**3,208**	**3,008**	**2,785**	**2,598**	**2,421**	**2,234**	**2,084**	**2,022**	**1,886**	**1,740**	**1,598**	**1,631**	**1,696**	**1,708**	**1,697**

Maximum Pounds per Day	**15.34**
Maximum Pounds per Hour [a]	**1.53**
Maximum Pounds per Month	**352.84**
Month with Maximum	**28**
Maximum Pounds per Year	**3,595**
Maximum Average Pounds per Hour [b]	**0.41**
Year with Maximum	**Months 25 - 36**
Tons per Year	**1.80**

Table 5.1A.59R Offsite Construction
Exhaust and Fugitive Emissions
Summary

Offsite SOx Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
Peaker and Tank Area and Stack 3&4 Demolition																																									
Total (lbs/month)	0.008	0.054	0.062	0.099	0.220	0.239	0.431	0.455	0.474	0.478	0.470	0.402	0.378	0.151	0.128																										
Total (lbs/day)	0.000	0.002	0.003	0.004	0.010	0.010	0.019	0.020	0.021	0.021	0.020	0.017	0.016	0.007	0.006																										
Units 3 & 4 Demolition																																								
Total (lbs/month)										0.24	0.28	0.34	0.43	0.43	0.46	0.50	0.50	0.59	0.59	0.73	0.73	0.78	0.83	0.83	0.83	0.83	0.83	0.83	0.72	0.70	0.54	0.48	0.32	0.83	0.83	0.83						
Total (lbs/day)										0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.04	0.04	0.04						
Block 1 Construction																																									
Total (lbs/month)																0.025	0.173	0.217	0.257	0.384	0.400	0.431	0.497	0.590	0.636	0.770	0.813	0.954	0.988	1.006	1.015	1.085	1.067	1.039	1.093	1.082	1.128	0.950	0.956	0.956	0.979
Total (lbs/day)																0.001	0.008	0.009	0.011	0.017	0.017	0.019	0.022	0.026	0.028	0.033	0.035	0.041	0.043	0.044	0.044	0.047	0.046	0.045	0.048	0.047	0.049	0.041	0.042	0.042	0.043
Block 2 Construction																																									
Total (lbs/month)																																				0.148	0.191	0.271	0.504	0.586	0.678
Total (lbs/day)																																				0.006	0.008	0.012	0.022	0.025	0.029
Units 1 & 2 Demolition																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Bldgs. 33 & 34 Construction																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Total Offsite SOx Emissions (Construction Vehicles)																																									
Pounds per Month	**0.008**	**0.054**	**0.062**	**0.099**	**0.220**	**0.239**	**0.431**	**0.455**	**0.474**	**0.713**	**0.753**	**0.742**	**0.812**	**0.583**	**0.583**	**0.520**	**0.668**	**0.807**	**0.847**	**1.115**	**1.131**	**1.209**	**1.322**	**1.416**	**1.462**	**1.596**	**1.638**	**1.779**	**1.711**	**1.710**	**1.552**	**1.563**	**1.392**	**1.864**	**1.918**	**2.056**	**1.319**	**1.221**	**1.459**	**1.542**	**1.656**
Pounds per Day	**0.000**	**0.002**	**0.003**	**0.004**	**0.010**	**0.010**	**0.019**	**0.020**	**0.021**	**0.031**	**0.033**	**0.032**	**0.035**	**0.025**	**0.025**	**0.023**	**0.029**	**0.035**	**0.037**	**0.048**	**0.049**	**0.053**	**0.057**	**0.062**	**0.064**	**0.069**	**0.071**	**0.077**	**0.074**	**0.074**	**0.067**	**0.068**	**0.061**	**0.081**	**0.083**	**0.089**	**0.057**	**0.053**	**0.063**	**0.067**	**0.072**
Yearly Maximums	**4.2**	**5.1**	**5.6**	**6.1**	**6.5**	**7.0**	**7.5**	**8.0**	**8.6**	**9.3**	**9.8**	**10.3**	**11.0**	**11.7**	**12.7**	**13.7**	**15.0**	**16.0**	**16.9**	**17.6**	**18.1**	**18.3**	**19.0**	**19.6**	**20.2**	**20.1**	**19.7**	**19.5**	**19.3**	**19.3**	**19.2**	**19.3**	**19.3**	**19.6**	**18.8**	**18.0**	**17.3**	**17.4**	**17.5**	**17.3**	**17.0**

Maximum Pounds per Day	**0.09**
Maximum Pounds per Hour [a]	**0.01**
Maximum Pounds per Month	**2.06**
Month with Maximum	**36**
Maximum Pounds per Year	**20**
Maximum Average Pounds per Hour [a]	**0.002**
Year with Maximum	**Months 25 - 36**
Tons per Year	**0.01**

Offsite Exhaust PM_{10} Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
Peaker and Tank Area and Stack 3&4 Demolition																																									
Total (lbs/month)	0.28	4.21	4.94	9.23	15.39	16.99	25.23	26.75	28.57	27.91	26.49	19.24	17.74	9.40	7.21																										
Total (lbs/day)	0.01	0.18	0.21	0.40	0.67	0.74	1.10	1.16	1.24	1.21	1.15	0.84	0.77	0.41	0.31																										
Units 3 & 4 Demolition																																									
Total (lbs/month)										11.17	12.80	18.27	24.28	25.19	27.38	28.28	28.28	31.55	31.55	36.45	36.45	37.45	39.03	39.03	39.03	39.03	39.03	39.03	35.14	34.25	24.15	21.47	14.44	38.45	38.45	38.45						
Total (lbs/day)										0.49	0.56	0.79	1.06	1.10	1.19	1.23	1.23	1.37	1.37	1.58	1.58	1.63	1.70	1.70	1.70	1.70	1.70	1.70	1.53	1.49	1.05	0.93	0.63	1.67	1.67	1.67						
Block 1 Construction																																									
Total (lbs/month)																1.33	14.80	17.03	20.28	28.39	29.84	31.72	33.92	40.13	44.51	53.02	53.03	61.07	62.68	64.72	65.96	74.21	77.41	77.08	82.19	82.57	86.95	80.64	83.96	83.96	86.15
Total (lbs/day)																0.03	0.60	0.65	0.78	1.03	1.09	1.16	1.16	1.36	1.56	1.82	1.73	1.95	1.98	2.08	2.14	2.54	2.79	2.86	3.08	3.13	3.32	3.28	3.49	3.49	3.59
Block 2 Construction																																									
Total (lbs/month)																																				14.04	18.42	26.02	36.09	43.75	49.73
Total (lbs/day)																																				0.61	0.80	1.13	1.57	1.90	2.16
Units 1 & 2 Demolition																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Bldgs. 33 & 34 Construction																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Total Offsite Exhaust PM_{10} Emissions (Construction Vehicles)																																									
Pounds per Month	**0.28**	**4.21**	**4.94**	**9.23**	**15.39**	**16.99**	**25.23**	**26.75**	**28.57**	**39.08**	**39.29**	**37.51**	**42.02**	**34.59**	**34.59**	**29.62**	**43.09**	**48.58**	**51.83**	**64.83**	**66.29**	**69.17**	**72.96**	**79.17**	**83.55**	**92.05**	**92.06**	**100.11**	**97.82**	**98.97**	**90.11**	**95.68**	**91.85**	**115.53**	**120.64**	**135.06**	**105.37**	**106.66**	**120.05**	**127.71**	**135.88**
Pounds per Day	**0.01**	**0.18**	**0.21**	**0.40**	**0.67**	**0.74**	**1.10**	**1.16**	**1.24**	**1.70**	**1.71**	**1.63**	**1.83**	**1.50**	**1.50**	**1.26**	**1.83**	**2.02**	**2.15**	**2.62**	**2.68**	**2.79**	**2.86**	**3.06**	**3.25**	**3.52**	**3.43**	**3.65**	**3.51**	**3.57**	**3.19**	**3.47**	**3.42**	**4.53**	**4.75**	**5.41**	**4.12**	**4.42**	**5.06**	**5.39**	**5.75**
Yearly Maximums	**247**	**289**	**320**	**349**	**370**	**397**	**429**	**456**	**494**	**531**	**561**	**595**	**637**	**678**	**736**	**793**	**864**	**918**	**969**	**1,007**	**1,038**	**1,064**	**1,110**	**1,158**	**1,213**	**1,235**	**1,250**	**1,278**	**1,305**	**1,344**	**1,381**	**1,431**	**1,468**	**1,513**	**1,469**	**1,430**	**1,395**	**1,391**	**1,385**	**1,364**	**1,335**

Maximum Pounds per Day	**6.05**
Maximum Pounds per Hour [a]	**0.61**
Maximum Pounds per Month	**140.01**
Month with Maximum	**43**
Maximum Pounds per Year	**1,513**
Maximum Average Pounds per Hour [a]	**0.17**
Year with Maximum	**Months 34 - 45**
Tons per Year	**0.76**

Offsite Fugitive PM_{10} Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
Peaker and Tank Area and Stack 3&4 Demolition [c]																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Units 3 & 4 Demolition																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Block 1 Construction																																									
Total (lbs/month)																0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Total (lbs/day)																0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Block 2 Construction																																									
Total (lbs/month)																																				0.35	0.35	0.35	0.35	0.35	0.35
Total (lbs/day)																																				0.02	0.02	0.02	0.02	0.02	0.02
Units 1 & 2 Demolition [c]																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Bldgs. 33 & 34 Construction [c]																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Total Offsite Fugitive PM_{10} Emissions (Grading)																																									
Pounds per Month	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.71**	**0.71**	**0.71**	**0.71**	**0.71**	**0.71**
Pounds per Day	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**
Yearly Maximums	**0.0**	**0.0**	**0.0**	**0.0**	**0.4**	**0.7**	**1.1**	**1.4**	**1.8**	**2.1**	**2.5**	**2.8**	**3.2**	**3.5**	**3.9**	**4.2**	**4.2**	**4.2**	**4.2**	**4.2**	**4.2**	**4.2**	**4.2**	**4.2**	**4.6**	**4.9**	**5.3**	**5.7**	**6.0**	**6.4**	**6.7**	**7.1**	**7.4**	**7.8**	**7.8**	**7.8**	**7.4**	**7.1**	**6.7**	**6.4**	**6.0**

Maximum Pounds per Day	**0.03**
Maximum Pounds per Hour [a]	**0.003**
Maximum Pounds per Month	**0.71**
Month with Maximum	**36 - 45**
Maximum Pounds per Year	**7.8**
Maximum Average Pounds per Hour [a]	**0.0009**
Year with Maximum	**Months 34 - 45, 35 - 46, or 36 - 47**
Tons per Year	**0.004**

Table 5.1A.59R Offsite Construction Exhaust and Fugitive Emissions Summary

Total Offsite PM_{10} Emissions (Exhaust and Fugitive)

Parameter	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
Pounds per Month	0.28	4.21	4.94	9.23	15.39	16.99	25.23	26.75	28.57	39.08	39.29	37.51	42.02	34.59	34.59	29.97	43.44	48.93	52.18	65.18	66.64	69.53	73.31	79.52	83.90	92.41	92.42	100.46	98.17	99.33	90.47	96.03	92.20	115.89	121.00	135.77	106.08	107.37	120.76	128.41	136.59
Pounds per Day	0.01	0.18	0.21	0.40	0.67	0.74	1.10	1.16	1.24	1.70	1.71	1.63	1.83	1.50	1.50	1.28	1.85	2.04	2.16	2.63	2.69	2.80	2.87	3.08	3.27	3.54	3.44	3.66	3.53	3.58	3.21	3.49	3.44	4.54	4.77	5.44	4.15	4.45	5.09	5.42	5.78
Yearly Maximums	247	289	320	349	370	398	430	457	495	533	564	598	640	682	740	797	868	923	973	1,011	1,042	1,068	1,114	1,162	1,218	1,240	1,255	1,284	1,311	1,350	1,388	1,438	1,475	1,521	1,477	1,437	1,403	1,398	1,392	1,370	1,341
Maximum Pounds per Day	6.08																																								
Maximum Pounds per Hour [a]	0.61																																								
Maximum Pounds per Month	140.72																																								
Month with Maximum	43																																								
Maximum Pounds per Year	1,521																																								
Maximum Average Pounds per Hour [b]	0.17																																								
Year with Maximum	Months 34 - 45																																								
Tons per Year	0.76																																								

Offsite Exhaust $PM_{2.5}$ Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
Peaker and Tank Area and Stack 3&4 Demolition																																									
Total (lbs/month)	0.14	1.30	1.50	2.60	5.06	5.54	9.23	9.75	10.26	9.97	9.66	7.72	7.22	3.24	2.63																										
Total (lbs/day)	0.01	0.06	0.07	0.11	0.22	0.24	0.40	0.42	0.45	0.43	0.42	0.34	0.31	0.14	0.11																										
Units 3 & 4 Demolition																																									
Total (lbs/month)										4.52	5.33	6.86	8.89	9.03	9.64	10.24	10.24	11.86	11.86	14.28	14.28	14.51	15.27	15.27	15.27	15.27	15.27	15.27	13.54	13.19	9.73	8.66	5.85	14.73	14.73	14.73					
Total (lbs/day)										0.20	0.23	0.30	0.39	0.39	0.42	0.45	0.45	0.52	0.52	0.62	0.62	0.63	0.66	0.66	0.66	0.66	0.66	0.66	0.59	0.57	0.42	0.38	0.25	0.64	0.64	0.64					
Block 1 Construction																																									
Total (lbs/month)																0.50	4.34	5.21	6.20	8.95	9.36	9.90	10.96	12.99	14.22	17.06	17.51	20.35	20.98	21.52	21.82	23.95	24.31	23.71	25.14	25.11	26.34	23.51	24.16	24.16	24.77
Total (lbs/day)																0.02	0.19	0.23	0.27	0.39	0.41	0.43	0.48	0.56	0.62	0.74	0.76	0.88	0.91	0.94	0.95	1.04	1.06	1.03	1.09	1.09	1.15	1.02	1.05	1.05	1.08
Block 2 Construction																																									
Total (lbs/month)																																				4.02	5.25	7.44	11.47	13.68	15.65
Total (lbs/day)																																				0.17	0.23	0.32	0.50	0.59	0.68
Units 1 & 2 Demolition																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Bldgs. 33 & 34 Construction																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Total Offsite Fugitive $PM_{2.5}$ Emissions (Construction Vehicles)																																									
Pounds per Month	0.14	1.30	1.50	2.60	5.06	5.54	9.23	9.75	10.26	14.49	14.99	14.58	16.10	12.27	12.27	10.75	14.59	17.07	18.06	23.24	23.65	24.41	26.23	28.27	29.49	32.34	32.78	35.63	34.52	34.71	31.55	32.61	30.16	38.44	39.87	43.87	31.58	30.94	35.63	37.84	40.43
Pounds per Day	0.01	0.06	0.07	0.11	0.22	0.24	0.40	0.42	0.45	0.63	0.65	0.63	0.70	0.53	0.53	0.47	0.63	0.74	0.79	1.01	1.03	1.06	1.14	1.23	1.28	1.41	1.43	1.55	1.50	1.51	1.37	1.42	1.31	1.67	1.73	1.91	1.37	1.35	1.55	1.65	1.76
Yearly Maximums	89	105	116	127	135	145	156	165	179	192	202	213	227	240	260	281	306	326	343	357	366	373	387	400	416	418	417	420	422	428	434	443	449	460	445	430	417	417	417	411	403
Maximum Pounds per Day	1.91																																								
Maximum Pounds per Hour [a]	0.19																																								
Maximum Pounds per Month	43.87																																								
Month with Maximum	36																																								
Maximum Pounds per Year	460																																								
Maximum Average Pounds per Hour [b]	0.05																																								
Year with Maximum	Months 34 - 45																																								
Tons per Year	0.23																																								

Offsite Fugitive $PM_{2.5}$ Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
Peaker and Tank Area and Stack 3&4 Demolition [c]																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Units 3 & 4 Demolition																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Block 1 Construction																																									
Total (lbs/month)																0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
Total (lbs/day)																0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Block 2 Construction																																									
Total (lbs/month)																																				0.038	0.038	0.038	0.038	0.038	0.038
Total (lbs/day)																																				0.002	0.002	0.002	0.002	0.002	0.002
Units 1 & 2 Demolition [c]																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Bldgs. 33 & 34 Construction [c]																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Total Offsite Fugitive $PM_{2.5}$ Emissions (Grading)																																									
Pounds per Month	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.076	0.076	0.076	0.076	0.076	0.076
Pounds per Day	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003
Yearly Maximums	0.00	0.00	0.00	0.00	0.04	0.08	0.11	0.15	0.19	0.23	0.27	0.31	0.34	0.38	0.42	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.50	0.53	0.57	0.61	0.65	0.69	0.73	0.76	0.80	0.84	0.84	0.84	0.80	0.76	0.73	0.69	0.65
Maximum Pounds per Day	0.003																																								
Maximum Pounds per Hour [a]	0.0003																																								
Maximum Pounds per Month	0.08																																								
Month with Maximum	36 - 45																																								
Maximum Pounds per Year	0.84																																								
Maximum Average Pounds per Hour [b]	0.0001																																								
Year with Maximum	Months 34 - 45, 35 - 46, or 36 - 47																																								
Tons per Year	0.0004																																								

Table 5.1A.59R Offsite Construction Exhaust and Fugitive Emissions Summary

Total Offsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

Parameter	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
Pounds per Month	0.14	1.30	1.50	2.60	5.06	5.54	9.23	9.75	10.26	14.49	14.99	14.58	16.10	12.27	12.27	10.78	14.62	17.11	18.10	23.28	23.68	24.45	26.27	28.30	29.53	32.37	32.82	35.66	34.56	34.75	31.59	32.64	30.20	38.48	39.91	43.94	31.66	31.02	35.71	37.91	40.50
Pounds per Day	0.01	0.06	0.07	0.11	0.22	0.24	0.40	0.42	0.45	0.63	0.65	0.63	0.70	0.53	0.53	0.47	0.64	0.74	0.79	1.01	1.03	1.06	1.14	1.23	1.28	1.41	1.43	1.55	1.50	1.51	1.37	1.42	1.31	1.67	1.74	1.91	1.38	1.35	1.55	1.65	1.76
Yearly Maximums	89	105	116	127	135	145	156	165	179	192	202	214	227	241	261	281	306	326	344	357	367	373	387	401	416	419	417	420	422	428	434	443	450	461	446	431	418	418	417	412	403
Maximum Pounds per Day	1.91																																								
Maximum Pounds per Hour [a]	0.191																																								
Maximum Pounds per Month	43.94																																								
Month with Maximum	36																																								
Maximum Pounds per Year	461																																								
Maximum Average Pounds per Hour [b]	0.053																																								
Year with Maximum	Months 34 - 45																																								
Tons per Year	0.23																																								

Offsite CO_2 Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
Peaker and Tank Area and Stack 3&4 Demolition																																									
Total (metric tons/month)	0.38	2.35	2.67	4.15	9.77	10.59	19.67	20.71	21.51	21.76	21.52	18.73	17.69	6.80	5.84																										
Total (metric tons/day)	0.02	0.10	0.12	0.18	0.42	0.46	0.86	0.90	0.94	0.95	0.94	0.81	0.77	0.30	0.25																										
Units 3 & 4 Demolition																																									
Total (lbs/month)										10.97	13.24	15.63	19.81	19.69	20.65	22.60	22.60	27.13	27.13	33.92	33.92	36.18	38.44	38.44	38.44	38.44	38.44	38.44	33.60	32.68	25.12	22.38	15.22	38.44	38.44	38.44						
Total (lbs/day)										0.48	0.58	0.68	0.86	0.86	0.90	0.98	0.98	1.18	1.18	1.47	1.47	1.57	1.67	1.67	1.67	1.67	1.67	1.67	1.46	1.42	1.09	0.97	0.66	1.67	1.67	1.67						
Block 1 Construction																																									
Total (metric tons/month)																1.16	7.38	9.43	11.15	16.85	17.49	18.92	22.07	26.24	28.15	34.16	36.35	42.78	44.36	45.11	45.43	48.17	46.94	45.48	47.72	47.15	49.06	40.54	40.51	40.51	41.47
Total (metric tons/day)																0.05	0.32	0.41	0.48	0.73	0.76	0.82	0.96	1.14	1.22	1.49	1.58	1.86	1.93	1.96	1.98	2.09	2.04	1.98	2.07	2.05	2.13	1.76	1.76	1.76	1.80
Block 2 Construction																																									
Total (metric tons/month)																																				6.67	8.58	12.21	23.24	26.95	31.22
Total (metric tons/day)																																				0.29	0.37	0.53	1.01	1.17	1.36
Units 1 & 2 Demolition																																									
Total (metric tons/month)																																									
Total (metric tons/day)																																									
Bldgs. 33 & 34 Construction																																									
Total (metric tons/month)																																									
Total (metric tons/day)																																									
Total Offsite CO_2 Emissions (Construction Vehicles)																																									
Metric Tons per Month	0.38	2.35	2.67	4.15	9.77	10.59	19.67	20.71	21.51	32.73	34.76	34.36	37.50	26.50	26.49	23.76	29.97	36.55	38.28	50.77	51.41	55.10	60.51	64.68	66.60	72.61	74.80	81.23	77.96	77.79	70.56	70.55	62.17	83.93	86.16	92.27	57.65	52.75	63.76	67.46	72.69
Metric Tons per Day	0.02	0.10	0.12	0.18	0.42	0.46	0.86	0.90	0.94	1.42	1.51	1.49	1.63	1.15	1.15	1.03	1.30	1.59	1.66	2.21	2.24	2.40	2.63	2.81	2.90	3.16	3.25	3.53	3.39	3.38	3.07	3.07	2.70	3.65	3.75	4.01	2.51	2.29	2.77	2.93	3.16
Yearly Maximums	194	231	255	279	298	319	345	363	393	423	445	471	502	531	577	625	683	731	772	804	824	835	863	889	917	908	888	877	863	858	854	852	851	864	830	797	767	772	781	777	765
Maximum Metric Tons per Day	4.01																																								
Maximum Metric Tons per Hour [a]	0.40																																								
Maximum Metric Tons per Month	92.27																																								
Month with Maximum	36																																								
Maximum Metric Tons per Year	917																																								
Maximum Average Metric Tons per Hour [b]	0.10																																								
Year with Maximum	Months 25 - 36																																								

Offsite N_2O Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
Peaker and Tank Area and Stack 3&4 Demolition																																									
Total (metric tons/month)	0.0000011	0.0000201	0.0000237	0.0000451	0.0000721	0.0000798	0.0001143	0.0001213	0.0001303	0.0001283	0.0001210	0.0000851	0.0000781	0.0000436	0.0000329																										
Total (metric tons/day)	0.0000000	0.0000009	0.0000010	0.0000020	0.0000031	0.0000035	0.0000050	0.0000053	0.0000057	0.0000056	0.0000053	0.0000037	0.0000034	0.0000019	0.0000014																										
Units 3 & 4 Demolition																																									
Total (lbs/month)										0.000049	0.000056	0.000083	0.000111	0.000116	0.000126	0.000129	0.000129	0.000143	0.000143	0.000163	0.000163	0.000169	0.000176	0.000176	0.000176	0.000176	0.000176	0.000176	0.000159	0.000155	0.000108	0.000096	0.000064	0.000176	0.000176	0.000176						
Total (lbs/day)										0.000002	0.000002	0.000004	0.000005	0.000005	0.000005	0.000006	0.000006	0.000006	0.000006	0.000007	0.000007	0.000007	0.000008	0.000008	0.000008	0.000008	0.000008	0.000008	0.000007	0.000007	0.000005	0.000004	0.000003	0.000008	0.000008	0.000008						
Block 1 Construction																																									
Total (metric tons/month)																0.0000060	0.0000718	0.0000818	0.0000973	0.0001351	0.0001423	0.0001517	0.0001609	0.0001903	0.0002118	0.0002518	0.0002503	0.0002876	0.0002948	0.0003050	0.0003112	0.0003522	0.0003698	0.0003708	0.0003958	0.0003981	0.0004196	0.0003921	0.0004092	0.0004092	0.0004199
Total (metric tons/day)																0.0000003	0.0000031	0.0000036	0.0000042	0.0000059	0.0000062	0.0000066	0.0000070	0.0000083	0.0000092	0.0000109	0.0000109	0.0001125	0.0000128	0.0000133	0.0000135	0.0000153	0.0000161	0.0000161	0.0001172	0.0000173	0.0000182	0.0000170	0.0000178	0.0000178	0.0000183
Block 2 Construction																																									
Total (metric tons/month)																																				0.0000685	0.0000899	0.0001269	0.0001724	0.0002097	0.0002381
Total (metric tons/day)																																				0.0000030	0.0000039	0.0000055	0.0000075	0.0000091	0.0000104
Units 1 & 2 Demolition																																									
Total (metric tons/month)																																									
Total (metric tons/day)																																									
Bldgs. 33 & 34 Construction																																									
Total (metric tons/month)																																									
Total (metric tons/day)																																									
Total Offsite N_2O Emissions (Construction Vehicles)																																									
Metric Tons per Month	0.00000	0.00002	0.00002	0.00005	0.00007	0.00008	0.00011	0.00012	0.00013	0.00018	0.00018	0.00017	0.00019	0.00016	0.00016	0.00014	0.00020	0.00022	0.00024	0.00030	0.00030	0.00032	0.00034	0.00037	0.00039	0.00043	0.00043	0.00046	0.00045	0.00046	0.00042	0.00045	0.00043	0.00055	0.00057	0.00064	0.00051	0.00052	0.00058	0.00062	0.00066
Metric Tons per Day	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00003	0.00002	0.00002	0.00003	0.00003	0.00003
Yearly Maximums	0.00113	0.00132	0.00146	0.00159	0.00168	0.00181	0.00196	0.00208	0.00226	0.00243	0.00258	0.00274	0.00293	0.00313	0.00340	0.00367	0.00400	0.00425	0.00448	0.00466	0.00481	0.00494	0.00517	0.00540	0.00568	0.00580	0.00589	0.00605	0.00620	0.00641	0.00661	0.00687	0.00707	0.00730	0.00709	0.00691	0.00675	0.00673	0.00669	0.00659	0.00645
Maximum Metric Tons per Day	0.000030																																								
Maximum Metric Tons per Hour [a]	0.0000030																																								
Maximum Metric Tons per Month	0.00068																																								
Month with Maximum	43																																								
Maximum Metric Tons per Year	0.00730																																								
Maximum Average Metric Tons per Hour [b]	0.00000083																																								
Year with Maximum	Months 34 - 45																																								

Offsite CH_4 Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
Peaker and Tank Area and Stack 3&4 Demolition																																									
Total (metric tons/month)	0.0000012	0.0000883	0.0001055	0.0002153	0.0002975	0.0003325	0.0004093	0.0004368	0.0004798	0.0004644	0.0004232	0.0002444	0.0002169	0.0001669	0.0001153																										
Total (metric tons/day)	0.0000001	0.0000038	0.0000046	0.0000094	0.0000129	0.0000145	0.0000178	0.0000190	0.0000209	0.0000202	0.0000184	0.0000106	0.0000094	0.0000073	0.0000050																										
Units 3 & 4 Demolition																																									
Total (lbs/month)										0.000139	0.000146	0.000275	0.000385	0.000417	0.000469	0.000459	0.000459	0.000473	0.000473	0.000494	0.000494	0.000501	0.000508	0.000508	0.000508	0.000508	0.000508	0.000508	0.000477	0.000466	0.000289	0.000256	0.000169	0.000508	0.000508	0.000508						
Total (lbs/day)										0.000006	0.000006	0.000012	0.000017	0.000018	0.000020	0.000020	0.000020	0.000021	0.000021	0.000021	0.000021	0.000022	0.000022	0.000022	0.000022	0.000022	0.000022	0.000022	0.000021	0.000020	0.000013	0.000011	0.000007	0.000022	0.000022	0.000022						
Block 1 Construction																																									
Total (metric tons/month)																0.0000198	0.0003307	0.0003613	0.0004314	0.0005787	0.0006131	0.0006499	0.0006597	0.0007779	0.0008811	0.0010374	0.0009956	0.0011290	0.0011501	0.0012010	0.0012344	0.0014453	0.0015711	0.0015990	0.0017193	0.0017418	0.0018449	0.0018023	0.0019076	0.0019076	0.0019591
Total (metric tons/day)																0.0000009	0.0000144	0.0000157	0.0000188	0.0000252	0.0000267	0.0000283	0.0000287	0.0000338	0.0000383	0.0000451	0.0000433	0.0000491	0.0000500	0.0000522	0.0000537	0.0000628	0.0000683	0.0000695	0.0000748	0.0000757	0.0000802	0.0000784	0.0000829	0.0000829	0.0000852
Block 2 Construction																																									
Total (metric tons/month)																																				0.0003204	0.0004236	0.0005968	0.0007121	0.0008856	0.0009961
Total (metric tons/day)																																				0.0000139	0.0000184	0.0000259	0.0000310	0.0000385	0.0000433
Units 1 & 2 Demolition																																									
Total (metric tons/month)																																									
Total (metric tons/day)																																									
Bldgs. 33 & 34 Construction																																									
Total (metric tons/month)																																									
Total (metric tons/day)																																									
Total Offsite CH_4 Emissions (Construction Vehicles)																																									
Metric Tons per Month	0.00000	0.00009	0.00011	0.00022	0.00030	0.00033	0.00041	0.00044	0.00048	0.00060	0.00057	0.00052	0.00060	0.00058	0.00058	0.00048	0.00079	0.00083	0.00090	0.00107	0.00111	0.00115	0.00117	0.00129	0.00139	0.00155	0.00150	0.00164	0.00163	0.00167	0.00152	0.00170	0.00174	0.00211	0.00223	0.00257	0.00227	0.00240	0.00262	0.00279	0.00296
Metric Tons per Day	0.00000	0.00000	0.00000	0.00001	0.00001	0.00001	0.00002	0.00002	0.00002	0.00003	0.00002	0.00002	0.00003	0.00003	0.00003	0.00002	0.00003	0.00004	0.00004	0.00005	0.00005	0.00005	0.00005	0.00006	0.00006	0.00007	0.00007	0.00007	0.00007	0.00007	0.00007	0.00007	0.00008	0.00009	0.00010	0.00011	0.00010	0.00010	0.00011	0.00012	0.00013
Yearly Maximums	0.00406	0.00466	0.00516	0.00563	0.00590	0.00639	0.00689	0.00739	0.00802	0.00865	0.00920	0.00980	0.01056	0.01135	0.01231	0.01323	0.01439	0.01523	0.01606	0.01668	0.01730	0.01794	0.01889	0.01995	0.02124	0.02212	0.02297	0.02409	0.02524	0.02657	0.02785	0.02948	0.03070	0.03192	0.03115	0.03052	0.03000	0.02979	0.02945	0.02887	0.02816
Maximum Metric Tons per Day	0.000137																																								
Maximum Metric Tons per Hour [a]	0.0000137																																								
Maximum Metric Tons per Month	0.00315																																								
Month with Maximum	43																																								
Maximum Metric Tons per Year	0.03192																																								
Maximum Average Metric Tons per Hour [b]	0.0000036																																								
Year with Maximum	Months 34 - 45																																								

Notes:
[a] The hours per day are per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 10 hours/day
[b] The hours per year are assumed to allow operation 24 hours per day, 7 days per week despite the actual construction schedule per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 8,760 hours/year
[c] There are no offsite activities generating fugitive dust during Peaker and Tank Area and Stack 3&4 Demolition, Units 1&2 Demolition and Bldgs. 33 & 34 Construction.

Table 5.1A.59R Offsite Construction Exhaust and Fugitive Emissions Summary

Offsite CO Emissions

CO Emissions by Month

Construction Step	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Peaker and Tank Area and Stack 3&4 Demolition																						
Total (lbs/month)																						
Total (lbs/day)																						
Units 3 & 4 Demolition																						
Total (lbs/month)																						
Total (lbs/day)																						
Block 1 Construction																						
Total (lbs/month)	367.60	364.20	317.06	309.21																		
Total (lbs/day)	15.98	15.83	13.79	13.44																		
Block 2 Construction																						
Total (lbs/month)	177.90	198.99	210.21	231.99	252.73	288.42	361.53	363.24	360.04	355.77	354.83	351.91	356.17	336.65	349.44	332.38	328.12	252.74	202.71	134.06	132.94	128.67
Total (lbs/day)	7.73	8.65	9.14	10.09	10.99	12.54	15.72	15.79	15.65	15.47	15.43	15.30	15.49	14.64	15.19	14.45	14.27	10.99	8.81	5.83	5.78	5.59
Units 1 & 2 Demolition																						
Total (lbs/month)																						
Total (lbs/day)																						
Bldgs. 33 & 34 Construction																						
Total (lbs/month)																						
Total (lbs/day)																						
Total Offsite CO Emissions (Construction Vehicles)																						
Pounds per Month	**545.51**	**563.18**	**527.27**	**541.20**	**252.73**	**288.42**	**361.53**	**363.24**	**360.04**	**355.77**	**354.83**	**351.91**	**356.17**	**336.65**	**349.44**	**332.38**	**328.12**	**252.74**	**202.71**	**134.06**	**132.94**	**128.67**
Pounds per Day	**23.72**	**24.49**	**22.92**	**23.53**	**10.99**	**12.54**	**15.72**	**15.79**	**15.65**	**15.47**	**15.43**	**15.30**	**15.49**	**14.64**	**15.19**	**14.45**	**14.27**	**10.99**	**8.81**	**5.83**	**5.78**	**5.59**
Yearly Maximums	**4,866**	**4,676**	**4,450**	**4,272**	**4,063**	**4,139**	**4,103**	**3,944**	**3,715**	**3,488**	**3,261**	**2,906**	**2,554**	**2,198**	**1,893**	**1,579**	**1,300**	**1,044**	**866**	**746**	**696**	**647**
Maximum Pounds per Day																						
Maximum Pounds per Hour [a]																						
Maximum Pounds per Month																						
Month with Maximum																						
Maximum Pounds per Year																						
Maximum Average Pounds per Hour [b]																						
Year with Maximum																						
Tons per Year																						

Construction Step	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
Peaker and Tank Area and Stack 3&4 Demolition																						
Total (lbs/month)																						
Total (lbs/day)																						
Units 3 & 4 Demolition																						
Total (lbs/month)																						
Total (lbs/day)																						
Block 1 Construction																						
Total (lbs/month)																						
Total (lbs/day)																						
Block 2 Construction																						
Total (lbs/month)																						
Total (lbs/day)																						
Units 1 & 2 Demolition																						
Total (lbs/month)				31.70	35.83	53.52	71.81	75.15	82.23	84.01	84.01	92.28	92.28	104.68	104.68	108.81	112.95	112.95	112.95	112.95	112.95	112.95
Total (lbs/day)				1.38	1.56	2.33	3.12	3.27	3.58	3.65	3.65	4.01	4.01	4.55	4.55	4.73	4.91	4.91	4.91	4.91	4.91	4.91
Bldgs. 33 & 34 Construction																						
Total (lbs/month)														40.38	60.60	62.30	64.92	65.86	61.31	68.68	69.26	75.93
Total (lbs/day)														1.76	2.63	2.71	2.82	2.86	2.67	2.99	3.01	3.30
Total Offsite CO Emissions (Construction Vehicles)																						
Pounds per Month	**0.00**	**0.00**	**0.00**	**31.70**	**35.83**	**53.52**	**71.81**	**75.15**	**82.23**	**84.01**	**84.01**	**92.28**	**92.28**	**145.05**	**165.28**	**171.11**	**177.87**	**178.80**	**174.25**	**181.63**	**182.21**	**188.88**
Pounds per Day	**0.00**	**0.00**	**0.00**	**1.38**	**1.56**	**2.33**	**3.12**	**3.27**	**3.58**	**3.65**	**3.65**	**4.01**	**4.01**	**6.31**	**7.19**	**7.44**	**7.73**	**7.77**	**7.58**	**7.90**	**7.92**	**8.21**
Yearly Maximums	**611**	**703**	**848**	**1,013**	**1,153**	**1,295**	**1,420**	**1,522**	**1,629**	**1,729**	**1,834**	**1,927**	**1,997**	**2,054**	**2,047**	**1,923**						

Offsite VOC Emissions

VOC Emissions by Month

Construction Step	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Peaker and Tank Area and Stack 3&4 Demolition																						
Total (lbs/month)																						
Total (lbs/day)																						
Units 3 & 4 Demolition																						
Total (lbs/month)																						
Total (lbs/day)																						
Block 1 Construction																						
Total (lbs/month)	9.18	7.67	6.74	6.58																		
Total (lbs/day)	0.40	0.33	0.29	0.29																		
Block 2 Construction																						
Total (lbs/month)	7.52	6.61	8.07	10.10	12.74	12.65	13.96	14.24	13.71	13.00	11.85	11.16	11.87	9.63	11.75	8.92	8.22	6.93	5.44	4.26	4.88	4.17
Total (lbs/day)	0.33	0.29	0.35	0.44	0.55	0.55	0.61	0.62	0.60	0.57	0.52	0.49	0.52	0.42	0.51	0.39	0.36	0.30	0.24	0.19	0.21	0.18
Units 1 & 2 Demolition																						
Total (lbs/month)																						
Total (lbs/day)																						
Bldgs. 33 & 34 Construction																						
Total (lbs/month)																						
Total (lbs/day)																						
Total Offsite VOC Emissions (Construction Vehicles)																						
Pounds per Month	**16.70**	**14.28**	**14.81**	**16.68**	**12.74**	**12.65**	**13.96**	**14.24**	**13.71**	**13.00**	**11.85**	**11.16**	**11.87**	**9.63**	**11.75**	**8.92**	**8.22**	**6.93**	**5.44**	**4.26**	**4.88**	**4.17**
Pounds per Day	**0.73**	**0.62**	**0.64**	**0.73**	**0.55**	**0.55**	**0.61**	**0.62**	**0.60**	**0.57**	**0.52**	**0.49**	**0.52**	**0.42**	**0.51**	**0.39**	**0.36**	**0.30**	**0.24**	**0.19**	**0.21**	**0.18**
Yearly Maximums	**166**	**161**	**156**	**153**	**145**	**141**	**135**	**127**	**117**	**108**	**99**	**87**	**76**	**64**	**58**	**49**	**44**	**41**	**39**	**38**	**39**	**40**
Maximum Pounds per Day																						
Maximum Pounds per Hour [a]																						
Maximum Pounds per Month																						
Month with Maximum																						
Maximum Pounds per Year																						
Maximum Average Pounds per Hour [b]																						
Year with Maximum																						
Tons per Year																						

Construction Step	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
Peaker and Tank Area and Stack 3&4 Demolition																						
Total (lbs/month)																						
Total (lbs/day)																						
Units 3 & 4 Demolition																						
Total (lbs/month)																						
Total (lbs/day)																						
Block 1 Construction																						
Total (lbs/month)																						
Total (lbs/day)																						
Block 2 Construction																						
Total (lbs/month)																						
Total (lbs/day)																						
Units 1 & 2 Demolition																						
Total (lbs/month)				2.95	3.63	3.91	4.80	4.65	4.76	5.40	5.40	6.74	6.74	8.76	8.76	9.43	10.10	10.10	10.10	10.10	10.10	10.10
Total (lbs/day)				0.13	0.16	0.17	0.21	0.20	0.21	0.23	0.23	0.29	0.29	0.38	0.38	0.41	0.44	0.44	0.44	0.44	0.44	0.44
Bldgs. 33 & 34 Construction																						
Total (lbs/month)														0.69	1.85	1.80	2.22	2.70	1.47	1.20	1.14	1.24
Total (lbs/day)														0.03	0.08	0.08	0.10	0.12	0.06	0.05	0.05	0.05
Total Offsite VOC Emissions (Construction Vehicles)																						
Pounds per Month	**0.00**	**0.00**	**0.00**	**2.95**	**3.63**	**3.91**	**4.80**	**4.65**	**4.76**	**5.40**	**5.40**	**6.74**	**6.74**	**9.45**	**10.61**	**11.23**	**12.33**	**12.80**	**11.58**	**11.31**	**11.24**	**11.34**
Pounds per Day	**0.00**	**0.00**	**0.00**	**0.13**	**0.16**	**0.17**	**0.21**	**0.20**	**0.21**	**0.23**	**0.23**	**0.29**	**0.29**	**0.41**	**0.46**	**0.49**	**0.54**	**0.56**	**0.50**	**0.49**	**0.49**	**0.49**
Yearly Maximums	**42**	**49**	**58**	**69**	**77**	**86**	**95**	**102**	**108**	**115**	**121**	**124**	**126**	**126**	**122**	**116**						

Offsite NOx Emissions

NOx Emissions by Month

Construction Step	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Peaker and Tank Area and Stack 3&4 Demolition																						
Total (lbs/month)																						
Total (lbs/day)																						
Units 3 & 4 Demolition																						
Total (lbs/month)																						
Total (lbs/day)																						
Block 1 Construction																						
Total (lbs/month)	57.57	35.25	31.53	30.90																		
Total (lbs/day)	2.50	1.53	1.37	1.34																		
Block 2 Construction																						
Total (lbs/month)	93.54	73.47	96.53	126.99	151.67	143.83	151.02	155.12	147.44	137.20	119.34	109.22	119.46	88.17	118.89	77.93	61.78	55.84	43.00	37.59	46.41	37.17
Total (lbs/day)	4.07	3.19	4.20	5.52	6.59	6.25	6.57	6.74	6.41	5.97	5.19	4.75	5.19	3.83	5.17	3.39	2.69	2.43	1.87	1.63	2.02	1.62
Units 1 & 2 Demolition																						
Total (lbs/month)																						
Total (lbs/day)																						
Bldgs. 33 & 34 Construction																						
Total (lbs/month)																						
Total (lbs/day)																						
Total Offsite NOx Emissions (Construction Vehicles)																						
Pounds per Month	**151.11**	**108.72**	**128.05**	**157.90**	**151.67**	**143.83**	**151.02**	**155.12**	**147.44**	**137.20**	**119.34**	**109.22**	**119.46**	**88.17**	**118.89**	**77.93**	**61.78**	**55.84**	**43.00**	**37.59**	**46.41**	**37.17**
Pounds per Day	**6.57**	**4.73**	**5.57**	**6.87**	**6.59**	**6.25**	**6.57**	**6.74**	**6.41**	**5.97**	**5.19**	**4.75**	**5.19**	**3.83**	**5.17**	**3.39**	**2.69**	**2.43**	**1.87**	**1.63**	**2.02**	**1.62**
Yearly Maximums	**1,661**	**1,629**	**1,608**	**1,599**	**1,519**	**1,429**	**1,341**	**1,233**	**1,116**	**1,015**	**915**	**795**	**686**	**567**	**520**	**452**	**426**	**423**	**422**	**435**	**462**	**481**
Maximum Pounds per Day																						
Maximum Pounds per Hour [a]																						
Maximum Pounds per Month																						
Month with Maximum																						
Maximum Pounds per Year																						
Maximum Average Pounds per Hour [b]																						
Year with Maximum																						
Tons per Year																						

Construction Step	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
Peaker and Tank Area and Stack 3&4 Demolition																						
Total (lbs/month)																						
Total (lbs/day)																						
Units 3 & 4 Demolition																						
Total (lbs/month)																						
Total (lbs/day)																						
Block 1 Construction																						
Total (lbs/month)																						
Total (lbs/day)																						
Block 2 Construction																						
Total (lbs/month)																						
Total (lbs/day)																						
Units 1 & 2 Demolition																						
Total (lbs/month)				41.05	51.02	52.61	57.99	55.37	55.96	64.81	64.81	82.90	82.90	110.03	110.03	119.07	128.11	128.11	130.29	130.29	130.29	130.29
Total (lbs/day)				1.78	2.22	2.29	2.52	2.41	2.43	2.82	2.82	3.60	3.60	4.78	4.78	5.18	5.57	5.57	5.66	5.66	5.66	5.66
Bldgs. 33 & 34 Construction																						
Total (lbs/month)														4.42	18.96	17.96	23.98	31.02	26.19	24.25	23.56	25.77
Total (lbs/day)														0.19	0.82	0.78	1.04	1.35	1.14	1.05	1.02	1.12
Total Offsite NOx Emissions (Construction Vehicles)																						
Pounds per Month	**0.00**	**0.00**	**0.00**	**41.05**	**51.02**	**52.61**	**57.99**	**55.37**	**55.96**	**64.81**	**64.81**	**82.90**	**82.90**	**114.45**	**128.99**	**137.02**	**152.10**	**159.14**	**156.47**	**154.53**	**153.85**	**156.06**
Pounds per Day	**0.00**	**0.00**	**0.00**	**1.78**	**2.22**	**2.29**	**2.52**	**2.41**	**2.43**	**2.82**	**2.82**	**3.60**	**3.60**	**4.98**	**5.61**	**5.96**	**6.61**	**6.92**	**6.80**	**6.72**	**6.69**	**6.79**
Yearly Maximums	**527**	**609**	**724**	**853**	**949**	**1,050**	**1,156**	**1,255**	**1,354**	**1,452**	**1,543**	**1,603**	**1,638**	**1,655**	**1,629**	**1,553**						

Table 5.1A.59R Offsite Construction
Exhaust and Fugitive Emissions
Summary

Offsite SOx Emissions

	SOx Emissions by Month																																												
Construction Step	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**
Peaker and Tank Area and Stack 3&4 Demolition																																												
Total (lbs/month)																																											
Total (lbs/day)																																											
Units 3 & 4 Demolition																																											
Total (lbs/month)																																											
Total (lbs/day)																																											
Block 1 Construction																																											
Total (lbs/month)	0.979	0.907	0.792	0.772																																							
Total (lbs/day)	0.043	0.039	0.034	0.034																																							
Block 2 Construction																																											
Total (lbs/month)	0.696	0.687	0.781	0.922	1.094	1.153	1.349	1.367	1.334	1.290	1.229	1.189	1.233	1.084	1.215	1.040	0.997	0.797	0.632	0.451	0.480	0.437																				
Total (lbs/day)	0.030	0.030	0.034	0.040	0.048	0.050	0.059	0.059	0.058	0.056	0.053	0.052	0.054	0.047	0.053	0.045	0.043	0.035	0.027	0.020	0.021	0.019																				
Units 1 & 2 Demolition																										0.232	0.279	0.332	0.422	0.421	0.442	0.482	0.482	0.576	0.576	0.718	0.718	0.765	0.812	0.812	0.812	0.812	0.812	0.812
Total (lbs/month)																										0.010	0.012	0.014	0.018	0.018	0.019	0.021	0.021	0.025	0.025	0.031	0.031	0.033	0.035	0.035	0.035	0.035	0.035	0.035
Total (lbs/day)																																												
Bldgs. 33 & 34 Construction																																				0.133	0.248	0.249	0.280	0.311	0.227	0.228	0.225	0.246
Total (lbs/month)																																				0.006	0.011	0.011	0.012	0.014	0.010	0.010	0.010	0.011
Total (lbs/day)																																												
Total Offsite SOx Emissions (Construction Vehicles)																																												
Pounds per Month	**1.675**	**1.594**	**1.573**	**1.695**	**1.094**	**1.153**	**1.349**	**1.367**	**1.334**	**1.290**	**1.229**	**1.189**	**1.233**	**1.084**	**1.215**	**1.040**	**0.997**	**0.797**	**0.632**	**0.451**	**0.480**	**0.437**	**0.000**	**0.000**	**0.000**	**0.232**	**0.279**	**0.332**	**0.422**	**0.421**	**0.442**	**0.482**	**0.482**	**0.576**	**0.576**	**0.850**	**0.966**	**1.014**	**1.092**	**1.123**	**1.039**	**1.040**	**1.037**	**1.059**
Pounds per Day	**0.073**	**0.069**	**0.068**	**0.074**	**0.048**	**0.050**	**0.059**	**0.059**	**0.058**	**0.056**	**0.053**	**0.052**	**0.054**	**0.047**	**0.053**	**0.045**	**0.043**	**0.035**	**0.027**	**0.020**	**0.021**	**0.019**	**0.000**	**0.000**	**0.000**	**0.010**	**0.012**	**0.014**	**0.018**	**0.018**	**0.019**	**0.021**	**0.021**	**0.025**	**0.025**	**0.037**	**0.042**	**0.044**	**0.047**	**0.049**	**0.045**	**0.045**	**0.045**	**0.046**
Yearly Maximums	**16.5**	**16.1**	**15.6**	**15.2**	**14.6**	**14.5**	**14.1**	**13.4**	**12.5**	**11.6**	**10.8**	**9.6**	**8.4**	**7.1**	**6.3**	**5.3**	**4.6**	**4.1**	**3.7**	**3.5**	**3.5**	**3.5**	**3.7**	**4.2**	**5.1**	**6.1**	**6.8**	**7.7**	**8.4**	**9.1**	**9.7**	**10.3**	**10.9**	**11.3**	**11.5**	**11.7**	**11.5**	**10.8**						
Maximum Pounds per Day																																											
Maximum Pounds per Hour [a]																																											
Maximum Pounds per Month																																											
Month with Maximum																																											
Maximum Pounds per Year																																											
Maximum Average Pounds per Hour [b]																																											
Year with Maximum																																											
Tons per Year																																											

Offsite Exhaust PM_{10} Emissions

	Exhaust PM_{10} Emissions by Month																																												
Construction Step	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**
Peaker and Tank Area and Stack 3&4 Demolition																																												
Total (lbs/month)																																											
Total (lbs/day)																																											
Units 3 & 4 Demolition																																											
Total (lbs/month)																																											
Total (lbs/day)																																											
Block 1 Construction																																											
Total (lbs/month)	86.15	84.76	73.81	71.98																																							
Total (lbs/day)	3.59	3.65	3.17	3.09																																							
Block 2 Construction																																											
Total (lbs/month)	50.08	55.26	58.84	65.43	71.57	80.99	100.84	101.39	100.35	98.96	98.27	97.25	98.64	92.64	96.82	91.24	89.74	69.30	55.53	36.91	36.82	35.45																				
Total (lbs/day)	2.18	2.40	2.56	2.84	3.11	3.52	4.38	4.41	4.36	4.30	4.27	4.23	4.29	4.03	4.21	3.97	3.90	3.01	2.41	1.60	1.60	1.54																				
Units 1 & 2 Demolition																										10.52	12.00	17.47	23.17	24.14	26.33	27.05	27.05	29.94	29.94	34.28	34.28	35.73	37.18	37.18	36.88	36.88	36.88	36.88
Total (lbs/month)																										0.46	0.52	0.76	1.01	1.05	1.14	1.18	1.18	1.30	1.30	1.49	1.49	1.55	1.62	1.62	1.60	1.60	1.60	1.60
Total (lbs/day)																																												
Bldgs. 33 & 34 Construction																																				13.27	20.14	20.68	21.64	22.07	20.26	22.60	22.78	24.97
Total (lbs/month)																																				0.58	0.88	0.90	0.94	0.96	0.88	0.98	0.99	1.09
Total (lbs/day)																																												
Total Offsite Exhaust PM_{10} Emissions (Construction Vehicles)																																												
Pounds per Month	**136.23**	**140.01**	**132.65**	**137.41**	**71.57**	**80.99**	**100.84**	**101.39**	**100.35**	**98.96**	**98.27**	**97.25**	**98.64**	**92.64**	**96.82**	**91.24**	**89.74**	**69.30**	**55.53**	**36.91**	**36.82**	**35.45**	**0.00**	**0.00**	**0.00**	**10.52**	**12.00**	**17.47**	**23.17**	**24.14**	**26.33**	**27.05**	**27.05**	**29.94**	**29.94**	**47.56**	**54.42**	**56.41**	**58.82**	**59.24**	**57.14**	**59.48**	**59.65**	**61.85**
Pounds per Day	**5.76**	**6.05**	**5.73**	**5.94**	**3.11**	**3.52**	**4.38**	**4.41**	**4.36**	**4.30**	**4.27**	**4.23**	**4.29**	**4.03**	**4.21**	**3.97**	**3.90**	**3.01**	**2.41**	**1.60**	**1.60**	**1.54**	**0.00**	**0.00**	**0.00**	**0.46**	**0.52**	**0.76**	**1.01**	**1.05**	**1.14**	**1.18**	**1.18**	**1.30**	**1.30**	**2.07**	**2.37**	**2.45**	**2.56**	**2.58**	**2.48**	**2.59**	**2.59**	**2.69**
Yearly Maximums	**1,296**	**1,258**	**1,211**	**1,175**	**1,129**	**1,147**	**1,135**	**1,090**	**1,026**	**962**	**899**	**800**	**703**	**604**	**522**	**438**	**364**	**297**	**252**	**223**	**213**	**203**	**198**	**228**	**275**	**330**	**375**	**422**	**464**	**498**	**533**	**567**	**602**	**632**	**655**	**674**	**672**	**631**						
Maximum Pounds per Day																																											
Maximum Pounds per Hour [a]																																											
Maximum Pounds per Month																																											
Month with Maximum																																											
Maximum Pounds per Year																																											
Maximum Average Pounds per Hour [b]																																											
Year with Maximum																																											
Tons per Year																																											

Offsite Fugitive PM_{10} Emissions

	Fugitive PM_{10} Emissions by Month																																												
Construction Step	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**
Peaker and Tank Area and Stack 3&4 Demolition [c]																																												
Total (lbs/month)																																												
Total (lbs/day)																																												
Units 3 & 4 Demolition																																												
Total (lbs/month)																																												
Total (lbs/day)																																												
Block 1 Construction																																												
Total (lbs/month)	0.35	0.35	0.35	0.35																																							
Total (lbs/day)	0.02	0.02	0.02	0.02																																							
Block 2 Construction																																												
Total (lbs/month)	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35																				
Total (lbs/day)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02																				
Units 1 & 2 Demolition [c]																																												
Total (lbs/month)																																												
Total (lbs/day)																																												
Bldgs. 33 & 34 Construction [c]																																												
Total (lbs/month)																																												
Total (lbs/day)																																												
Total Offsite Fugitive PM_{10} Emissions (Grading)																																												
Pounds per Month	**0.71**	**0.71**	**0.71**	**0.71**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Pounds per Day	**0.03**	**0.03**	**0.03**	**0.03**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Yearly Maximums	**5.7**	**5.3**	**4.9**	**4.6**	**4.2**	**4.2**	**4.2**	**4.2**	**4.2**	**4.2**	**4.2**	**3.9**	**3.5**	**3.2**	**2.8**	**2.5**	**2.1**	**1.8**	**1.4**	**1.1**	**0.7**	**0.4**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**						
Maximum Pounds per Day																																											
Maximum Pounds per Hour [a]																																											
Maximum Pounds per Month																																											
Month with Maximum																																											
Maximum Pounds per Year																																											
Maximum Average Pounds per Hour [b]																																											
Year with Maximum																																											
Tons per Year																																											

Table 5.1A.59R Offsite Construction Exhaust and Fugitive Emissions Summary

Total Offsite PM_{10} Emissions (Exhaust and Fugitive)

	Total PM_{10} Emissions by Month																																									
Parameter	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
Pounds per Month	136.94	140.72	133.35	138.12	71.93	81.34	101.19	101.75	100.70	99.31	98.63	97.60	98.99	92.99	97.17	91.60	90.09	69.65	55.88	37.27	37.17	35.81	0.00	0.00	0.00	10.52	12.00	17.47	23.17	24.14	26.33	27.05	27.05	29.94	29.94	47.56	54.42	56.41	58.82	59.24	57.14	59.48	59.65	61.85
Pounds per Day	5.79	6.08	5.76	5.97	3.13	3.54	4.40	4.42	4.38	4.32	4.29	4.24	4.30	4.04	4.22	3.98	3.92	3.03	2.43	1.62	1.62	1.56	0.00	0.00	0.00	0.46	0.52	0.76	1.01	1.05	1.14	1.18	1.18	1.30	1.30	2.07	2.37	2.45	2.56	2.58	2.48	2.59	2.59	2.69
Yearly Maximums	1,302	1,264	1,216	1,180	1,133	1,151	1,140	1,094	1,030	966	903	804	707	608	525	440	366	299	253	224	214	204	198	228	275	330	375	422	464	498	533	567	602	632	655	674	672	631						
Maximum Pounds per Day																																												
Maximum Pounds per Hour [a]																																												
Maximum Pounds per Month																																												
Month with Maximum																																												
Maximum Pounds per Year																																												
Maximum Average Pounds per Hour [a]																																												
Year with Maximum																																												
Tons per Year																																												

Offsite Exhaust $PM_{2.5}$ Emissions

	Exhaust $PM_{2.5}$ Emissions by Month																																										
Construction Step	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
Peaker and Tank Area and Stack 3&4 Demolition																																												
Total (lbs/month)																																												
Total (lbs/day)																																												
Units 3 & 4 Demolition																																												
Total (lbs/month)																																												
Total (lbs/day)																																												
Block 1 Construction																																												
Total (lbs/month)	24.77	23.84	20.78	20.27																																								
Total (lbs/day)	1.08	1.04	0.90	0.88																																								
Block 2 Construction																																												
Total (lbs/month)	15.89	16.79	18.34	20.88	22.96	25.36	30.94	31.19	30.73	30.12	29.53	29.02	29.63	27.29	29.12	26.68	26.07	20.34	16.25	11.03	11.24	10.62																						
Total (lbs/day)	0.69	0.73	0.80	0.91	1.00	1.10	1.35	1.36	1.34	1.31	1.28	1.26	1.29	1.19	1.27	1.16	1.13	0.88	0.71	0.48	0.49	0.46																						
Units 1 & 2 Demolition																																												
Total (lbs/month)																										3.93	4.59	6.13	7.87	8.07	8.68	9.11	9.11	10.39	10.39	12.30	12.30	12.94	13.58	13.58	13.31	13.31	13.31	13.31
Total (lbs/day)																										0.17	0.20	0.27	0.34	0.35	0.38	0.40	0.40	0.45	0.45	0.53	0.53	0.56	0.59	0.59	0.58	0.58	0.58	0.58
Bldgs. 33 & 34 Construction																																												
Total (lbs/month)																																				3.74	6.01	6.12	6.55	6.86	5.87	6.38	6.40	7.01
Total (lbs/day)																																				0.16	0.26	0.27	0.28	0.30	0.26	0.28	0.28	0.30
Total Offsite Exhaust $PM_{2.5}$ Emissions (Construction Vehicles)																																												
Pounds per Month	40.66	40.63	39.12	41.15	22.96	25.36	30.94	31.19	30.73	30.12	29.53	29.02	29.63	27.29	29.12	26.68	26.07	20.34	16.25	11.03	11.24	10.62	0.00	0.00	0.00	3.93	4.59	6.13	7.87	8.07	8.68	9.11	9.11	10.39	10.39	16.04	18.31	19.06	20.13	20.43	19.17	19.68	19.70	20.32
Pounds per Day	1.77	1.77	1.70	1.79	1.00	1.10	1.35	1.36	1.34	1.31	1.28	1.26	1.29	1.19	1.27	1.16	1.13	0.88	0.71	0.48	0.49	0.46	0.00	0.00	0.00	0.17	0.20	0.27	0.34	0.35	0.38	0.40	0.40	0.45	0.45	0.70	0.80	0.83	0.88	0.89	0.83	0.86	0.86	0.88
Yearly Maximums	391	380	367	357	343	346	341	326	306	286	267	237	208	179	155	131	110	92	80	72	70	68	68	78	94	113	128	143	158	169	181	192	203	212	218	223	221	208						
Maximum Pounds per Day																																												
Maximum Pounds per Hour [a]																																												
Maximum Pounds per Month																																												
Month with Maximum																																												
Maximum Pounds per Year																																												
Maximum Average Pounds per Hour [a]																																												
Year with Maximum																																												
Tons per Year																																												

Offsite Fugitive $PM_{2.5}$ Emissions

	Fugitive $PM_{2.5}$ Emissions by Month																																										
Construction Step	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
Peaker and Tank Area and Stack 3&4 Demolition [c]																																												
Total (lbs/month)																																												
Total (lbs/day)																																												
Units 3 & 4 Demolition																																												
Total (lbs/month)																																												
Total (lbs/day)																																												
Block 1 Construction																																												
Total (lbs/month)	0.038	0.038	0.038	0.038																																								
Total (lbs/day)	0.002	0.002	0.002	0.002																																								
Block 2 Construction																																												
Total (lbs/month)	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038																						
Total (lbs/day)	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002																						
Units 1 & 2 Demolition [b]																																												
Total (lbs/month)																																												
Total (lbs/day)																																												
Bldgs. 33 & 34 Construction [b]																																												
Total (lbs/month)																																												
Total (lbs/day)																																												
Total Offsite Fugitive $PM_{2.5}$ Emissions (Grading)																																												
Pounds per Month	0.076	0.076	0.076	0.076	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Pounds per Day	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Yearly Maximums	0.61	0.57	0.53	0.50	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.42	0.38	0.34	0.31	0.27	0.23	0.19	0.15	0.11	0.08	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
Maximum Pounds per Day																																												
Maximum Pounds per Hour [a]																																												
Maximum Pounds per Month																																												
Month with Maximum																																												
Maximum Pounds per Year																																												
Maximum Average Pounds per Hour [a]																																												
Year with Maximum																																												
Tons per Year																																												

Table 5.1A.59R Offsite Construction Exhaust and Fugitive Emissions Summary

Total Offsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

	Total $PM_{2.5}$ Emissions by Month																																								
Parameter	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
Pounds per Month	40.74	40.71	39.19	41.22	23.00	25.40	30.98	31.22	30.77	30.15	29.57	29.06	29.67	27.33	29.16	26.71	26.10	20.38	16.29	11.07	11.28	10.66	0.00	0.00	0.00	3.93	4.59	6.13	7.87	8.07	8.68	9.11	9.11	10.39	10.39	16.04	18.31	19.06	20.13	20.43	19.17	19.68	19.70	20.32
Pounds per Day	1.77	1.77	1.70	1.79	1.00	1.10	1.35	1.36	1.34	1.31	1.29	1.26	1.29	1.19	1.27	1.16	1.13	0.89	0.71	0.48	0.49	0.46	0.00	0.00	0.00	0.17	0.20	0.27	0.34	0.35	0.38	0.40	0.40	0.45	0.45	0.70	0.80	0.83	0.88	0.89	0.83	0.86	0.86	0.88
Yearly Maximums	392	381	368	358	343	346	341	326	306	287	267	238	209	179	156	131	110	92	80	72	70	68	68	78	94	113	128	143	158	169	181	192	203	212	218	223	221	208						
Maximum Pounds per Day																																											
Maximum Pounds per Hour [a]																																											
Maximum Pounds per Month																																											
Month with Maximum																																											
Maximum Pounds per Year																																											
Maximum Average Pounds per Hour [b]																																											
Year with Maximum																																											
Tons per Year																																											

Offsite CO_2 Emissions

	CO_2 Emissions by Month																																									
Construction Step	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
Peaker and Tank Area and Stack 3&4 Demolition																																											
Total (metric tons/month)																																											
Total (metric tons/day)																																											
Units 3 & 4 Demolition																																											
Total (lbs/month)																																											
Total (lbs/day)																																											
Block 1 Construction																																											
Total (metric tons/month)	41.47	37.91	33.12	32.33																																							
Total (metric tons/day)	1.80	1.65	1.44	1.41																																							
Block 2 Construction																																											
Total (metric tons/month)	32.11	31.41	35.93	42.59	50.78	53.25	62.05	62.89	61.31	59.21	56.23	54.29	56.39	49.30	55.60	47.20	45.11	36.20	28.69	20.58	22.04	19.94																					
Total (metric tons/day)	1.40	1.37	1.56	1.85	2.21	2.32	2.70	2.73	2.67	2.57	2.44	2.36	2.45	2.14	2.42	2.05	1.96	1.57	1.25	0.89	0.96	0.87																					
Units 1 & 2 Demolition																										10.96	13.22	15.60	19.77	19.65	20.60	22.55	22.55	27.08	27.08	33.87	33.87	36.13	38.40	38.40	38.40	38.40	38.40	38.40
Total (metric tons/day)																										0.48	0.57	0.68	0.86	0.85	0.90	0.98	0.98	1.18	1.18	1.47	1.47	1.57	1.67	1.67	1.67	1.67	1.67	1.67
Bldgs. 33 & 34 Construction																																				0.21	3.53	3.23	4.74	6.55	2.02	0.51	0.21	0.21
Total (metric tons/month)																																				0.01	0.15	0.14	0.21	0.28	0.09	0.02	0.01	0.01
Total (metric tons/day)																																											
Total Offsite CO_2 Emissions (Construction Vehicles)																																											
Metric Tons per Month	73.58	69.32	69.05	74.92	50.78	53.25	62.05	62.89	61.31	59.21	56.23	54.29	56.39	49.30	55.60	47.20	45.11	36.20	28.69	20.58	22.04	19.94	0.00	0.00	0.00	10.96	13.22	15.60	19.77	19.65	20.60	22.55	22.55	27.08	27.08	34.08	37.40	39.36	43.13	44.94	40.42	38.91	38.61	38.61
Metric Tons per Day	3.20	3.01	3.00	3.26	2.21	2.32	2.70	2.73	2.67	2.57	2.44	2.36	2.45	2.14	2.42	2.05	1.96	1.57	1.25	0.89	0.96	0.87	0.00	0.00	0.00	0.48	0.57	0.68	0.86	0.85	0.90	0.98	0.98	1.18	1.18	1.48	1.63	1.71	1.88	1.95	1.76	1.69	1.68	1.68
Yearly Maximums	747	730	710	696	669	663	646	612	570	531	492	435	381	325	286	244	212	187	170	162	164	165	172	199	233	271	299	329	358	379	398	416	432	439	440	434	418	396						
Maximum Metric Tons per Day																																											
Maximum Metric Tons per Hour [a]																																											
Maximum Metric Tons per Month																																											
Month with Maximum																																											
Maximum Metric Tons per Year																																											
Maximum Average Metric Tons per Hour [b]																																											
Year with Maximum																																											

Offsite N_2O Emissions

	N_2O Emissions by Month																																									
Construction Step	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
Peaker and Tank Area and Stack 3&4 Demolition																																											
Total (metric tons/month)																																											
Total (metric tons/day)																																											
Units 3 & 4 Demolition																																											
Total (lbs/month)																																											
Total (lbs/day)																																											
Block 1 Construction																																											
Total (metric tons/month)	0.0004199	0.0004148	0.0003612	0.0003522																																							
Total (metric tons/day)	0.0000183	0.0000180	0.0000157	0.0000153																																							
Block 2 Construction																																											
Total (metric tons/month)	0.0002394	0.0002664	0.0002823	0.0003124	0.0003416	0.0003885	0.0004857	0.0004882	0.0004836	0.0004774	0.0004753	0.0004710	0.0004771	0.0004497	0.0004682	0.0004436	0.0004375	0.0003373	0.0002704	0.0001791	0.0001781	0.0001720																					
Total (metric tons/day)	0.0000104	0.0000116	0.0000123	0.0000136	0.0000149	0.0000169	0.0000211	0.0000212	0.0000210	0.0000208	0.0000207	0.0000205	0.0000207	0.0000196	0.0000204	0.0000193	0.0000190	0.0000147	0.0000118	0.0000078	0.0000077	0.0000075																					
Units 1 & 2 Demolition																										0.0000492	0.0000558	0.0000826	0.0001107	0.0001156	0.0001264	0.0001294	0.0001294	0.0001427	0.0001427	0.0001625	0.0001625	0.0001692	0.0001758	0.0001758	0.0001758	0.0001758	0.0001758	0.0001758
Total (metric tons/day)																										0.0000021	0.0000024	0.0000036	0.0000048	0.0000050	0.0000055	0.0000056	0.0000056	0.0000062	0.0000062	0.0000071	0.0000071	0.0000074	0.0000076	0.0000076	0.0000076	0.0000076	0.0000076	0.0000076
Bldgs. 33 & 34 Construction																																				0.0000650	0.0000980	0.0001006	0.0001051	0.0001068	0.0000989	0.0001106	0.0001115	0.0001222
Total (metric tons/day)																																				0.0000028	0.0000043	0.0000044	0.0000046	0.0000046	0.0000043	0.0000048	0.0000048	0.0000053
Total Offsite N_2O Emissions (Construction Vehicles)																																											
Metric Tons per Month	0.00066	0.00068	0.00064	0.00066	0.00034	0.00039	0.00049	0.00049	0.00048	0.00048	0.00048	0.00047	0.00048	0.00045	0.00047	0.00044	0.00044	0.00034	0.00027	0.00018	0.00018	0.00017	0.00000	0.00000	0.00000	0.00005	0.00006	0.00008	0.00011	0.00012	0.00013	0.00013	0.00013	0.00014	0.00014	0.00023	0.00026	0.00027	0.00028	0.00028	0.00027	0.00029	0.00029	0.00030
Metric Tons per Day	0.00003	0.00003	0.00003	0.00003	0.00001	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00001	0.00001	0.00001	0.00001	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
Yearly Maximums	0.00626	0.00608	0.00585	0.00567	0.00545	0.00555	0.00549	0.00528	0.00497	0.00466	0.00436	0.00388	0.00341	0.00294	0.00254	0.00212	0.00176	0.00144	0.00121	0.00107	0.00102	0.00097	0.00094	0.00108	0.00131	0.00157	0.00179	0.00202	0.00222	0.00238	0.00255	0.00271	0.00288	0.00303	0.00315	0.00324	0.00323	0.00304						
Maximum Metric Tons per Day																																											
Maximum Metric Tons per Hour [a]																																											
Maximum Metric Tons per Month																																											
Month with Maximum																																											
Maximum Metric Tons per Year																																											
Maximum Average Metric Tons per Hour [b]																																											
Year with Maximum																																											

Offsite CH_4 Emissions

	CH_4 Emissions by Month																																									
Construction Step	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
Peaker and Tank Area and Stack 3&4 Demolition																																											
Total (metric tons/month)																																											
Total (metric tons/day)																																											
Units 3 & 4 Demolition																																											
Total (lbs/month)																																											
Total (lbs/day)																																											
Block 1 Construction																																											
Total (metric tons/month)	0.0019591	0.0019805	0.0017226	0.0016796																																							
Total (metric tons/day)	0.0000852	0.0000861	0.0000749	0.0000730																																							
Block 2 Construction																																											
Total (metric tons/month)	0.0009907	0.0011668	0.0011970	0.0012825	0.0013403	0.0015910	0.0020558	0.0020584	0.0020535	0.0020470	0.0020782	0.0020803	0.0020868	0.0020242	0.0020438	0.0020177	0.0020112	0.0015299	0.0012312	0.0007928	0.0007650	0.0007585																					
Total (metric tons/day)	0.0000431	0.0000507	0.0000520	0.0000558	0.0000583	0.0000692	0.0000894	0.0000895	0.0000893	0.0000890	0.0000904	0.0000904	0.0000907	0.0000880	0.0000889	0.0000877	0.0000874	0.0000665	0.0000535	0.0000345	0.0000333	0.0000330																					
Units 1 & 2 Demolition																										0.0001392	0.0001463	0.0002752	0.0003854	0.0004174	0.0004690	0.0004588	0.0004588	0.0004729	0.0004729	0.0004940	0.0004940	0.0005011	0.0005081	0.0005081	0.0005081	0.0005081	0.0005081	0.0005081
Total (metric tons/day)																										0.0000061	0.0000064	0.0000120	0.0000168	0.0000181	0.0000204	0.0000199	0.0000199	0.0000206	0.0000206	0.0000215	0.0000215	0.0000218	0.0000221	0.0000221	0.0000221	0.0000221	0.0000221	0.0000221
Bldgs. 33 & 34 Construction																																				0.0003100	0.0004321	0.0004484	0.0004530	0.0004415	0.0004532	0.0005259	0.0005335	0.0005851
Total (metric tons/day)																																				0.0000135	0.0000188	0.0000195	0.0000197	0.0000192	0.0000197	0.0000229	0.0000232	0.0000254
Total Offsite CH_4 Emissions (Construction Vehicles)																																											
Metric Tons per Month	0.00295	0.00315	0.00292	0.00296	0.00134	0.00159	0.00206	0.00206	0.00205	0.00205	0.00208	0.00208	0.00209	0.00202	0.00204	0.00202	0.00201	0.00153	0.00123	0.00079	0.00076	0.00076	0.00000	0.00000	0.00000	0.00014	0.00015	0.00028	0.00039	0.00042	0.00047	0.00046	0.00046	0.00047	0.00047	0.00080	0.00093	0.00095	0.00096	0.00095	0.00096	0.00103	0.00104	0.00109
Metric Tons per Day	0.00013	0.00014	0.00013	0.00013	0.00006	0.00007	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00007	0.00005	0.00003	0.00003	0.00003	0.00000	0.00000	0.00000	0.00001	0.00001	0.00001	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00003	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00005	0.00005
Yearly Maximums	0.02728	0.02642	0.02530	0.02442	0.02348	0.02415	0.02409	0.02326	0.02200	0.02071	0.01942	0.01734	0.01526	0.01317	0.01129	0.00939	0.00765	0.00602	0.00491	0.00415	0.00381	0.00351	0.00322	0.00370	0.00450	0.00543	0.00624	0.00705	0.00773	0.00830	0.00892	0.00949	0.01012	0.01077	0.01130	0.01178	0.01187	0.01111						
Maximum Metric Tons per Day																																											
Maximum Metric Tons per Hour [a]																																											
Maximum Metric Tons per Month																																											
Month with Maximum																																											
Maximum Metric Tons per Year																																											
Maximum Average Metric Tons per Hour [b]																																											
Year with Maximum																																											

Notes:
[a] The hours per day are per 'Manpower Schedule Huntington
[b] The hours per year are assumed to allow operation 24 hours
[c] There are no offsite activities generating fugitive dust during F

Table 5.1A.59R Offsite Construction
Exhaust and Fugitive Emissions
Summary

Offsite CO Emissions

Construction Step	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition					
Total (lbs/month)					
Total (lbs/day)					
Units 3 & 4 Demolition					
Total (lbs/month)					
Total (lbs/day)					
Block 1 Construction					
Total (lbs/month)					
Total (lbs/day)					
Block 2 Construction					
Total (lbs/month)					
Total (lbs/day)					
Units 1 & 2 Demolition					
Total (lbs/month)	94.05	91.49	60.81	53.14	41.12
Total (lbs/day)	4.09	3.98	2.64	2.31	1.79
Bldgs. 33 & 34 Construction					
Total (lbs/month)	83.71	70.38	88.15	84.82	0.37
Total (lbs/day)	3.64	3.06	3.83	3.69	0.02
Total Offsite CO Emissions (Construction Vehicles)					
Pounds per Month	**177.76**	**161.87**	**148.97**	**137.96**	**41.50**
Pounds per Day	**7.73**	**7.04**	**6.48**	**6.00**	**1.80**
Yearly Maximums					
Maximum Pounds per Day					
Maximum Pounds per Hour [a]					
Maximum Pounds per Month					
Month with Maximum					
Maximum Pounds per Year					
Maximum Average Pounds per Hour [b]					
Year with Maximum					
Tons per Year					

Offsite VOC Emissions

Construction Step	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition					
Total (lbs/month)					
Total (lbs/day)					
Units 3 & 4 Demolition					
Total (lbs/month)					
Total (lbs/day)					
Block 1 Construction					
Total (lbs/month)					
Total (lbs/day)					
Block 2 Construction					
Total (lbs/month)					
Total (lbs/day)					
Units 1 & 2 Demolition					
Total (lbs/month)	7.38	7.14	5.44	4.71	4.09
Total (lbs/day)	0.32	0.31	0.24	0.20	0.18
Bldgs. 33 & 34 Construction					
Total (lbs/month)	1.36	1.15	1.43	1.38	0.07
Total (lbs/day)	0.06	0.05	0.06	0.06	0.00
Total Offsite VOC Emissions (Construction Vehicles)					
Pounds per Month	**8.74**	**8.29**	**6.87**	**6.09**	**4.15**
Pounds per Day	**0.38**	**0.36**	**0.30**	**0.26**	**0.18**
Yearly Maximums					
Maximum Pounds per Day					
Maximum Pounds per Hour [a]					
Maximum Pounds per Month					
Month with Maximum					
Maximum Pounds per Year					
Maximum Average Pounds per Hour [b]					
Year with Maximum					
Tons per Year					

Offsite NOx Emissions

Construction Step	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition					
Total (lbs/month)					
Total (lbs/day)					
Units 3 & 4 Demolition					
Total (lbs/month)					
Total (lbs/day)					
Block 1 Construction					
Total (lbs/month)					
Total (lbs/day)					
Block 2 Construction					
Total (lbs/month)					
Total (lbs/day)					
Units 1 & 2 Demolition					
Total (lbs/month)	96.53	93.41	69.92	60.56	52.29
Total (lbs/day)	4.20	4.06	3.04	2.63	2.27
Bldgs. 33 & 34 Construction					
Total (lbs/month)	28.34	23.93	29.81	28.71	0.78
Total (lbs/day)	1.23	1.04	1.30	1.25	0.03
Total Offsite NOx Emissions (Construction Vehicles)					
Pounds per Month	**124.87**	**117.34**	**99.73**	**89.27**	**53.07**
Pounds per Day	**5.43**	**5.10**	**4.34**	**3.88**	**2.31**
Yearly Maximums					
Maximum Pounds per Day					
Maximum Pounds per Hour [a]					
Maximum Pounds per Month					
Month with Maximum					
Maximum Pounds per Year					
Maximum Average Pounds per Hour [b]					
Year with Maximum					
Tons per Year					

Table 5.1A.59R Offsite Construction Exhaust and Fugitive Emissions Summary

Offsite SOx Emissions

Construction Step	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition					
Total (lbs/month)					
Total (lbs/day)					
Units 3 & 4 Demolition					
Total (lbs/month)					
Total (lbs/day)					
Block 1 Construction					
Total (lbs/month)					
Total (lbs/day)					
Block 2 Construction					
Total (lbs/month)					
Total (lbs/day)					
Units 1 & 2 Demolition					
Total (lbs/month)	0.616	0.597	0.435	0.377	0.321
Total (lbs/day)	0.027	0.026	0.019	0.016	0.014
Bldgs. 33 & 34 Construction					
Total (lbs/month)	0.271	0.229	0.286	0.275	0.004
Total (lbs/day)	0.012	0.010	0.012	0.012	0.000
Total Offsite SOx Emissions (Construction Vehicles)					
Pounds per Month	**0.888**	**0.826**	**0.721**	**0.652**	**0.325**
Pounds per Day	**0.039**	**0.036**	**0.031**	**0.028**	**0.014**
Yearly Maximums					
Maximum Pounds per Day					
Maximum Pounds per Hour [a]					
Maximum Pounds per Month					
Month with Maximum					
Maximum Pounds per Year					
Maximum Average Pounds per Hour [a]					
Year with Maximum					
Tons per Year					

Offsite Exhaust PM_{10} Emissions

Construction Step	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition					
Total (lbs/month)					
Total (lbs/day)					
Units 3 & 4 Demolition					
Total (lbs/month)					
Total (lbs/day)					
Block 1 Construction					
Total (lbs/month)					
Total (lbs/day)					
Block 2 Construction					
Total (lbs/month)					
Total (lbs/day)					
Units 1 & 2 Demolition					
Total (lbs/month)	30.45	29.61	19.83	17.31	13.55
Total (lbs/day)	1.32	1.29	0.86	0.75	0.59
Bldgs. 33 & 34 Construction					
Total (lbs/month)	27.52	23.14	28.99	27.89	0.13
Total (lbs/day)	1.20	1.01	1.26	1.21	0.01
Total Offsite Exhaust PM_{10} Emissions (Construction Vehicles)					
Pounds per Month	**57.98**	**52.75**	**48.81**	**45.20**	**13.68**
Pounds per Day	**2.52**	**2.29**	**2.12**	**1.97**	**0.59**
Yearly Maximums					
Maximum Pounds per Day					
Maximum Pounds per Hour [a]					
Maximum Pounds per Month					
Month with Maximum					
Maximum Pounds per Year					
Maximum Average Pounds per Hour [a]					
Year with Maximum					
Tons per Year					

Offsite Fugitive PM_{10} Emissions

Construction Step	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition [c]					
Total (lbs/month)					
Total (lbs/day)					
Units 3 & 4 Demolition					
Total (lbs/month)					
Total (lbs/day)					
Block 1 Construction					
Total (lbs/month)					
Total (lbs/day)					
Block 2 Construction					
Total (lbs/month)					
Total (lbs/day)					
Units 1 & 2 Demolition [c]					
Total (lbs/month)					
Total (lbs/day)					
Bldgs. 33 & 34 Construction [c]					
Total (lbs/month)					
Total (lbs/day)					
Total Offsite Fugitive PM_{10} Emissions (Grading)					
Pounds per Month	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Pounds per Day	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Yearly Maximums					
Maximum Pounds per Day					
Maximum Pounds per Hour [a]					
Maximum Pounds per Month					
Month with Maximum					
Maximum Pounds per Year					
Maximum Average Pounds per Hour [a]					
Year with Maximum					
Tons per Year					

Table 5.1A.59R Offsite Construction Exhaust and Fugitive Emissions Summary

Total Offsite PM_{10} Emissions (Exhaust and Fugitive)

Parameter	86	87	88	89	90
Pounds per Month	57.98	52.75	48.81	45.20	13.68
Pounds per Day	2.52	2.29	2.12	1.97	0.59
Yearly Maximums					
Maximum Pounds per Day					
Maximum Pounds per Hour [a]					
Maximum Pounds per Month					
Month with Maximum					
Maximum Pounds per Year					
Maximum Average Pounds per Hour [a]					
Year with Maximum					
Tons per Year					

Offsite Exhaust $PM_{2.5}$ Emissions

Construction Step	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition					
Total (lbs/month)					
Total (lbs/day)					
Units 3 & 4 Demolition					
Total (lbs/month)					
Total (lbs/day)					
Block 1 Construction					
Total (lbs/month)					
Total (lbs/day)					
Block 2 Construction					
Total (lbs/month)					
Total (lbs/day)					
Units 1 & 2 Demolition					
Total (lbs/month)	10.63	10.32	7.14	6.22	5.04
Total (lbs/day)	0.46	0.45	0.31	0.27	0.22
Bldgs. 33 & 34 Construction					
Total (lbs/month)	7.73	6.50	8.14	7.83	0.06
Total (lbs/day)	0.34	0.28	0.35	0.34	0.00
Total Offsite Exhaust $PM_{2.5}$ Emissions (Construction Vehicles)					
Pounds per Month	18.36	16.82	15.28	14.05	5.09
Pounds per Day	0.80	0.73	0.66	0.61	0.22
Yearly Maximums					
Maximum Pounds per Day					
Maximum Pounds per Hour [a]					
Maximum Pounds per Month					
Month with Maximum					
Maximum Pounds per Year					
Maximum Average Pounds per Hour [a]					
Year with Maximum					
Tons per Year					

Offsite Fugitive $PM_{2.5}$ Emissions

Construction Step	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition [a]					
Total (lbs/month)					
Total (lbs/day)					
Units 3 & 4 Demolition					
Total (lbs/month)					
Total (lbs/day)					
Block 1 Construction					
Total (lbs/month)					
Total (lbs/day)					
Block 2 Construction					
Total (lbs/month)					
Total (lbs/day)					
Units 1 & 2 Demolition [a]					
Total (lbs/month)					
Total (lbs/day)					
Bldgs. 33 & 34 Construction [a]					
Total (lbs/month)					
Total (lbs/day)					
Total Offsite Fugitive $PM_{2.5}$ Emissions (Grading)					
Pounds per Month	0.000	0.000	0.000	0.000	0.000
Pounds per Day	0.000	0.000	0.000	0.000	0.000
Yearly Maximums					
Maximum Pounds per Day					
Maximum Pounds per Hour [a]					
Maximum Pounds per Month					
Month with Maximum					
Maximum Pounds per Year					
Maximum Average Pounds per Hour [a]					
Year with Maximum					
Tons per Year					

Table 5.1A.59R Offsite Construction Exhaust and Fugitive Emissions Summary

Total Offsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

Parameter	86	87	88	89	90
Pounds per Month	18.36	16.82	15.28	14.05	5.09
Pounds per Day	0.80	0.73	0.66	0.61	0.22
Yearly Maximums					
Maximum Pounds per Day					
Maximum Pounds per Hour [a]					
Maximum Pounds per Month					
Month with Maximum					
Maximum Pounds per Year					
Maximum Average Pounds per Hour [b]					
Year with Maximum					
Tons per Year					

Offsite CO_2 Emissions

Construction Step	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition					
Total (metric tons/month)					
Total (metric tons/day)					
Units 3 & 4 Demolition					
Total (lbs/month)					
Total (lbs/day)					
Block 1 Construction					
Total (metric tons/month)					
Total (metric tons/day)					
Block 2 Construction					
Total (metric tons/month)					
Total (metric tons/day)					
Units 1 & 2 Demolition					
Total (metric tons/month)	29.02	28.11	20.57	17.83	15.21
Total (metric tons/day)	1.26	1.22	0.89	0.78	0.66
Bldgs. 33 & 34 Construction					
Total (metric tons/month)	0.21	0.21	0.21	0.21	0.21
Total (metric tons/day)	0.01	0.01	0.01	0.01	0.01
Total Offsite CO_2 Emissions (Construction Vehicles)					
Metric Tons per Month	29.23	28.32	20.78	18.04	15.42
Metric Tons per Day	1.27	1.23	0.90	0.78	0.67
Yearly Maximums					
Maximum Metric Tons per Day					
Maximum Metric Tons per Hour [a]					
Maximum Metric Tons per Month					
Month with Maximum					
Maximum Metric Tons per Year					
Maximum Average Metric Tons per Hour [b]					
Year with Maximum					

Offsite N_2O Emissions

Construction Step	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition					
Total (metric tons/month)					
Total (metric tons/day)					
Units 3 & 4 Demolition					
Total (lbs/month)					
Total (lbs/day)					
Block 1 Construction					
Total (metric tons/month)					
Total (metric tons/day)					
Block 2 Construction					
Total (metric tons/month)					
Total (metric tons/day)					
Units 1 & 2 Demolition					
Total (metric tons/month)	0.0001457	0.0001417	0.0000945	0.0000825	0.0000644
Total (metric tons/day)	0.0000063	0.0000062	0.0000041	0.0000036	0.0000028
Bldgs. 33 & 34 Construction					
Total (metric tons/month)	0.0001347	0.0001133	0.0001419	0.0001365	0.0000006
Total (metric tons/day)	0.0000059	0.0000049	0.0000062	0.0000059	0.0000000
Total Offsite N_2O Emissions (Construction Vehicles)					
Metric Tons per Month	0.00028	0.00025	0.00024	0.00022	0.00006
Metric Tons per Day	0.00001	0.00001	0.00001	0.00001	0.00000
Yearly Maximums					
Maximum Metric Tons per Day					
Maximum Metric Tons per Hour [a]					
Maximum Metric Tons per Month					
Month with Maximum					
Maximum Metric Tons per Year					
Maximum Average Metric Tons per Hour [b]					
Year with Maximum					

Offsite CH_4 Emissions

Construction Step	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition					
Total (metric tons/month)					
Total (metric tons/day)					
Units 3 & 4 Demolition					
Total (lbs/month)					
Total (lbs/day)					
Block 1 Construction					
Total (metric tons/month)					
Total (metric tons/day)					
Block 2 Construction					
Total (metric tons/month)					
Total (metric tons/day)					
Units 1 & 2 Demolition					
Total (metric tons/month)	0.0004628	0.0004518	0.0002744	0.0002416	0.0001688
Total (metric tons/day)	0.0000201	0.0000196	0.0000119	0.0000105	0.0000073
Bldgs. 33 & 34 Construction					
Total (metric tons/month)	0.0006452	0.0005421	0.0006796	0.0006538	0.0000006
Total (metric tons/day)	0.0000281	0.0000236	0.0000295	0.0000284	0.0000000
Total Offsite CH_4 Emissions (Construction Vehicles)					
Metric Tons per Month	0.00111	0.00099	0.00095	0.00090	0.00017
Metric Tons per Day	0.00005	0.00004	0.00004	0.00004	0.00001
Yearly Maximums					
Maximum Metric Tons per Day					
Maximum Metric Tons per Hour [a]					
Maximum Metric Tons per Month					
Month with Maximum					
Maximum Metric Tons per Year					
Maximum Average Metric Tons per Hour [b]					
Year with Maximum					

Notes:
[a] The hours per day are per "Manpower_Schedule_Huntington
[b] The hours per year are assumed to allow operation 24 hours p
[c] There are no offsite activities generating fugitive dust during F

Table 5.1A.60R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Onsite and Offsite CO Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)	642.99	660.88	663.01	854.07	935.47	942.72	973.05	979.54	1,117.96	1,075.47	1,068.40	1,040.28	1,168.32	1,138.67	1,128.50																				
Total (lbs/day)	27.96	28.73	28.83	37.13	40.67	40.99	42.31	42.59	48.61	46.76	46.45	45.23	50.80	49.51	49.07																				
Units 3 & 4 Demolition																																			
Total (lbs/month)										263.52	268.75	292.32	316.40	320.94	330.37	332.45	332.45	751.55	751.55	993.54	993.54	1,128.59	1,133.82	1,094.50	1,094.50	1,094.50	1,094.50	1,094.50	1,080.90	1,077.58	1,037.28	1,027.33	1,000.90	1,185.17	1,185.17
Total (lbs/day)										11.46	11.68	12.71	13.76	13.95	14.36	14.45	14.45	32.68	32.68	43.20	43.20	49.07	49.30	47.59	47.59	47.59	47.59	47.59	47.00	46.85	45.10	44.67	43.52	51.53	51.53
Block 1 Construction																																			
Total (lbs/month)																1,297.31	1,354.96	1,224.85	1,317.31	938.18	727.52	813.73	820.99	885.59	904.44	898.41	896.26	967.26	843.49	813.11	818.66	855.03	871.45	794.24	816.24
Total (lbs/day)																56.40	58.91	53.25	57.27	40.79	31.63	35.38	35.70	38.50	39.32	39.06	38.97	42.05	36.67	35.35	35.59	37.18	37.89	34.53	35.49
Block 2 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 1 & 2 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite and Offsite CO Emissions (Construction Equipment and Vehicles)																																			
Pounds per Month	**642.99**	**660.88**	**663.01**	**854.07**	**935.47**	**942.72**	**973.05**	**979.54**	**1,117.96**	**1,338.99**	**1,337.15**	**1,332.60**	**1,484.72**	**1,459.61**	**1,458.87**	**1,629.76**	**1,687.41**	**1,976.40**	**2,068.86**	**1,931.71**	**1,721.06**	**1,942.32**	**1,954.81**	**1,980.08**	**1,998.94**	**1,992.91**	**1,990.75**	**2,061.76**	**1,924.38**	**1,890.69**	**1,855.94**	**1,882.37**	**1,872.35**	**1,979.41**	**2,001.40**
Pounds per Day	**27.96**	**28.73**	**28.83**	**37.13**	**40.67**	**40.99**	**42.31**	**42.59**	**48.61**	**58.22**	**58.14**	**57.94**	**64.55**	**63.46**	**63.43**	**70.86**	**73.37**	**85.93**	**89.95**	**83.99**	**74.83**	**84.45**	**84.99**	**86.09**	**86.91**	**86.65**	**86.55**	**89.64**	**83.67**	**82.20**	**80.69**	**81.84**	**81.41**	**86.06**	**87.02**
Yearly Maximums	**11,778**	**12,620**	**13,419**	**14,215**	**14,990**	**15,742**	**16,776**	**17,872**	**18,824**	**19,427**	**20,030**	**20,648**	**21,296**	**21,810**	**22,343**	**22,875**	**23,307**	**23,544**	**23,458**	**23,245**	**23,196**	**23,347**	**23,384**	**23,431**	**23,861**	**23,882**	**23,916**	**23,675**	**23,387**	**23,045**	**22,553**	**22,113**	**21,799**	**21,548**	**20,490**

Maximum Pounds per Day	**104.77**
Maximum Pounds per Hour [a]	**10.48**
Maximum Pounds per Month	**2,409.72**
Month with Maximum	**36**
Maximum Pounds per Year	**23,916**
Maximum Average Pounds per Hour [b]	**2.73**
Year with Maximum	**Months 27 - 38**
Tons per Year	**11.96**

Onsite and Offsite VOC Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)	133.56	134.08	145.58	180.13	190.54	190.77	194.42	194.77	215.47	201.84	201.90	206.17	229.67	225.12	224.90																				
Total (lbs/day)	5.81	5.83	6.33	7.83	8.28	8.29	8.45	8.47	9.37	8.78	8.78	8.96	9.99	9.79	9.78																				
Units 3 & 4 Demolition																																			
Total (lbs/month)										58.05	58.94	59.40	60.66	60.49	60.68	61.50	61.50	135.65	135.65	178.09	178.09	197.95	198.83	185.77	185.77	185.77	185.77	185.77	183.94	183.62	181.26	180.28	177.64	208.59	208.59
Total (lbs/day)										2.52	2.56	2.58	2.64	2.63	2.64	2.67	2.67	5.90	5.90	7.74	7.74	8.61	8.64	8.08	8.08	8.08	8.08	8.08	8.00	7.98	7.88	7.84	7.72	9.07	9.07
Block 1 Construction																																			
Total (lbs/month)																236.31	237.62	208.85	235.47	166.17	127.60	153.83	155.06	169.34	169.72	157.86	158.90	174.03	155.61	142.66	142.66	142.95	141.98	115.17	115.60
Total (lbs/day)																10.27	10.33	9.08	10.24	7.22	5.55	6.69	6.74	7.36	7.38	6.86	6.91	7.57	6.77	6.20	6.20	6.22	6.17	5.01	5.03
Block 2 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 1 & 2 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite and Offsite VOC Emissions (Construction Equipment and Vehicles)																																			
Pounds per Month	**133.56**	**134.08**	**145.58**	**180.13**	**190.54**	**190.77**	**194.42**	**194.77**	**215.47**	**259.90**	**260.84**	**265.57**	**290.33**	**285.61**	**285.58**	**297.81**	**299.12**	**344.51**	**371.12**	**344.25**	**305.69**	**351.78**	**353.89**	**355.11**	**355.49**	**343.63**	**344.67**	**359.80**	**339.55**	**326.27**	**323.92**	**323.23**	**319.62**	**323.75**	**324.19**
Pounds per Day	**5.81**	**5.83**	**6.33**	**7.83**	**8.28**	**8.29**	**8.45**	**8.47**	**9.37**	**11.30**	**11.34**	**11.55**	**12.62**	**12.42**	**12.42**	**12.95**	**13.01**	**14.98**	**16.14**	**14.97**	**13.29**	**15.29**	**15.39**	**15.44**	**15.46**	**14.94**	**14.99**	**15.64**	**14.76**	**14.19**	**14.08**	**14.05**	**13.90**	**14.08**	**14.10**
Yearly Maximums	**2,366**	**2,522**	**2,674**	**2,814**	**2,932**	**3,040**	**3,194**	**3,371**	**3,520**	**3,610**	**3,702**	**3,795**	**3,885**	**3,950**	**4,008**	**4,067**	**4,129**	**4,170**	**4,151**	**4,104**	**4,083**	**4,097**	**4,069**	**4,039**	**4,072**	**4,008**	**3,953**	**3,846**	**3,721**	**3,584**	**3,445**	**3,305**	**3,200**	**3,112**	**2,930**

Maximum Pounds per Day	**16.87**
Maximum Pounds per Hour [a]	**1.69**
Maximum Pounds per Month	**388.00**
Month with Maximum	**18**
Maximum Pounds per Year	**4,170**
Maximum Average Pounds per Hour [b]	**0.48**
Year with Maximum	**Months 36-47**
Tons per Year	**2.08**

Onsite and Offsite NOx Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)	897.45	902.00	1,025.80	1,291.88	1,385.50	1,387.61	1,451.33	1,456.20	1,601.69	1,334.39	1,337.52	1,366.54	1,520.76	1,448.19	1,447.30																				
Total (lbs/day)	39.02	39.22	44.60	56.17	60.24	60.33	63.10	63.31	69.64	58.02	58.15	59.41	66.12	62.96	62.93																				
Units 3 & 4 Demolition																																			
Total (lbs/month)										446.76	462.25	464.49	481.76	477.20	478.09	493.28	493.28	1,027.84	1,027.84	1,367.07	1,367.07	1,349.98	1,363.76	1,261.70	1,261.70	1,261.70	1,261.70	1,261.70	1,233.88	1,229.16	1,199.02	1,184.83	1,147.28	1,266.76	1,266.76
Total (lbs/day)										19.42	20.10	20.20	20.95	20.75	20.79	21.45	21.45	44.69	44.69	59.44	59.44	58.69	59.29	54.86	54.86	54.86	54.86	54.86	53.65	53.44	52.13	51.51	49.88	55.08	55.08
Block 1 Construction																																			
Total (lbs/month)																1,447.99	1,456.59	1,289.53	1,519.50	1,158.11	913.29	1,029.53	1,048.68	1,165.27	1,166.90	1,085.71	1,104.03	1,233.53	1,128.52	1,026.01	1,024.64	1,020.39	999.60	703.80	705.54
Total (lbs/day)																62.96	63.33	56.07	66.07	50.35	39.71	44.76	45.59	50.66	50.73	47.20	48.00	53.63	49.07	44.61	44.55	44.36	43.46	30.60	30.68
Block 2 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 1 & 2 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite and Offsite NOx Emissions (Construction Equipment and Vehicles)																																			
Pounds per Month	**897.45**	**902.00**	**1,025.80**	**1,291.88**	**1,385.50**	**1,387.61**	**1,451.33**	**1,456.20**	**1,601.69**	**1,781.15**	**1,799.76**	**1,831.02**	**2,002.52**	**1,925.39**	**1,925.39**	**1,941.27**	**1,949.87**	**2,317.38**	**2,547.34**	**2,525.18**	**2,280.35**	**2,379.51**	**2,412.43**	**2,426.97**	**2,428.61**	**2,347.41**	**2,365.74**	**2,495.23**	**2,362.41**	**2,255.17**	**2,223.66**	**2,205.23**	**2,146.88**	**1,970.56**	**1,972.30**
Pounds per Day	**39.02**	**39.22**	**44.60**	**56.17**	**60.24**	**60.33**	**63.10**	**63.31**	**69.64**	**77.44**	**78.25**	**79.61**	**87.07**	**83.71**	**83.71**	**84.40**	**84.78**	**100.76**	**110.75**	**109.79**	**99.15**	**103.46**	**104.89**	**105.52**	**105.59**	**102.06**	**102.86**	**108.49**	**102.71**	**98.05**	**96.68**	**95.88**	**93.34**	**85.68**	**85.75**
Yearly Maximums	**16,811**	**17,916**	**18,940**	**19,839**	**20,489**	**21,053**	**21,983**	**23,079**	**24,148**	**24,827**	**25,425**	**26,038**	**26,634**	**27,060**	**27,482**	**27,922**	**28,476**	**28,889**	**28,826**	**28,503**	**28,183**	**28,049**	**27,640**	**27,200**	**27,153**	**26,553**	**25,994**	**25,115**	**24,112**	**23,039**	**22,025**	**20,999**	**20,200**	**19,581**	**18,546**

Maximum Pounds per Day	**110.75**
Maximum Pounds per Hour [a]	**11.08**
Maximum Pounds per Month	**2,547.34**
Month with Maximum	**19**
Maximum Pounds per Year	**28,889**
Maximum Average Pounds per Hour [b]	**3.30**
Year with Maximum	**Months 18 - 29**
Tons per Year	**14.44**

Table 5.1A.60R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Onsite and Offsite SOx Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)	1.2315	1.2777	1.4953	1.9408	2.1639	2.1831	2.3751	2.3984	2.6490	2.4762	2.4688	2.3946	2.6118	2.3841	2.3611																				
Total (lbs/day)	0.0535	0.0556	0.0650	0.0844	0.0941	0.0949	0.1033	0.1043	0.1152	0.1077	0.1073	0.1041	0.1136	0.1037	0.1027																				
Units 3 & 4 Demolition																																			
Total (lbs/month)										0.89	0.93	0.99	1.08	1.08	1.11	1.15	1.15	2.05	2.05	2.70	2.70	2.98	3.03	2.85	2.85	2.85	2.85	2.85	2.75	2.73	2.56	2.50	2.35	3.11	3.11
Total (lbs/day)										0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.09	0.09	0.12	0.12	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.10	0.14	0.14
Block 1 Construction																																			
Total (lbs/month)																2.3693	2.5171	2.3550	2.7489	2.1512	1.8074	2.1910	2.2565	2.5269	2.5729	2.5261	2.5687	2.8866	2.6891	2.5309	2.5396	2.6092	2.5919	2.2098	2.2635
Total (lbs/day)																0.1030	0.1094	0.1024	0.1195	0.0935	0.0786	0.0953	0.0981	0.1099	0.1119	0.1098	0.1117	0.1255	0.1169	0.1100	0.1104	0.1134	0.1127	0.0961	0.0984
Block 2 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 1 & 2 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite and Offsite SOx Emissions (Construction Equipment and Vehicles)																																			
Pounds per Month	**1.2315**	**1.2777**	**1.4953**	**1.9408**	**2.1639**	**2.1831**	**2.3751**	**2.3984**	**2.6490**	**3.3617**	**3.4015**	**3.3847**	**3.6951**	**3.4670**	**3.4670**	**3.5146**	**3.6625**	**4.4060**	**4.7999**	**4.8540**	**4.5101**	**5.1723**	**5.2850**	**5.3785**	**5.4245**	**5.3778**	**5.4203**	**5.7383**	**5.4387**	**5.2609**	**5.1026**	**5.1135**	**4.9429**	**5.3169**	**5.3706**
Pounds per Day	**0.0535**	**0.0556**	**0.0650**	**0.0844**	**0.0941**	**0.0949**	**0.1033**	**0.1043**	**0.1152**	**0.1462**	**0.1479**	**0.1472**	**0.1607**	**0.1507**	**0.1507**	**0.1528**	**0.1592**	**0.1916**	**0.2087**	**0.2110**	**0.1961**	**0.2249**	**0.2298**	**0.2338**	**0.2358**	**0.2338**	**0.2357**	**0.2495**	**0.2365**	**0.2287**	**0.2219**	**0.2223**	**0.2149**	**0.2312**	**0.2335**
Yearly Maximums	**28**	**30**	**33**	**34**	**36**	**38**	**40**	**42**	**45**	**47**	**48**	**50**	**52**	**54**	**56**	**58**	**60**	**62**	**63**	**63**	**63**	**64**	**64**	**64**	**65**	**64**	**63**	**62**	**60**	**59**	**57**	**56**	**55**	**55**	**52**
Maximum Pounds per Day	**0.27**																																		
Maximum Pounds per Hour [a]	**0.03**																																		
Maximum Pounds per Month	**6.28**																																		
Month with Maximum	**36**																																		
Maximum Pounds per Year	**65**																																		
Maximum Average Pounds per Hour [b]	**0.01**																																		
Year with Maximum	**Months 25 - 36**																																		
Tons per Year	**0.03**																																		

Onsite and Offsite Exhaust PM_{10} Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)	57.72	61.64	64.06	80.49	89.85	91.45	99.69	101.21	110.90	97.38	95.96	92.46	99.70	91.36	89.17																				
Total (lbs/day)	2.51	2.68	2.79	3.50	3.91	3.98	4.33	4.40	4.82	4.23	4.17	4.02	4.33	3.97	3.88																				
Units 3 & 4 Demolition																																			
Total (lbs/month)										29.12	30.75	36.22	42.23	43.14	45.33	46.23	46.23	78.13	78.13	96.62	96.62	96.38	97.96	94.48	94.48	94.48	94.48	94.48	90.59	89.70	79.60	76.92	69.89	93.78	93.78
Total (lbs/day)										1.27	1.34	1.57	1.84	1.88	1.97	2.01	2.01	3.40	3.40	4.20	4.20	4.19	4.26	4.11	4.11	4.11	4.11	4.11	3.94	3.90	3.46	3.34	3.04	4.08	4.08
Block 1 Construction																																			
Total (lbs/month)																100.02	113.49	101.04	112.01	90.95	75.71	79.02	81.22	90.91	95.29	100.23	100.24	111.76	107.39	105.96	107.20	115.44	118.64	107.18	112.29
Total (lbs/day)																4.32	4.89	4.30	4.77	3.75	3.09	3.21	3.21	3.57	3.76	3.88	3.78	4.16	3.93	3.87	3.93	4.33	4.59	4.16	4.39
Block 2 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 1 & 2 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite and Offsite Exhaust PM_{10} Emissions (Construction Equipment and Vehicles)																																			
Pounds per Month	**57.72**	**61.64**	**64.06**	**80.49**	**89.85**	**91.45**	**99.69**	**101.21**	**110.90**	**126.49**	**126.71**	**128.68**	**141.93**	**134.50**	**134.50**	**146.26**	**159.72**	**179.17**	**190.15**	**187.57**	**172.33**	**175.40**	**179.18**	**185.39**	**189.77**	**194.71**	**194.72**	**206.24**	**197.98**	**195.65**	**186.80**	**192.36**	**188.53**	**200.96**	**206.07**
Pounds per Day	**2.51**	**2.68**	**2.79**	**3.50**	**3.91**	**3.98**	**4.33**	**4.40**	**4.82**	**5.50**	**5.51**	**5.59**	**6.17**	**5.85**	**5.85**	**6.33**	**6.90**	**7.70**	**8.16**	**7.95**	**7.29**	**7.41**	**7.47**	**7.68**	**7.87**	**7.99**	**7.89**	**8.26**	**7.87**	**7.77**	**7.40**	**7.68**	**7.62**	**8.24**	**8.46**
Yearly Maximums	**1,139**	**1,223**	**1,296**	**1,366**	**1,432**	**1,502**	**1,590**	**1,680**	**1,767**	**1,828**	**1,877**	**1,929**	**1,986**	**2,034**	**2,094**	**2,154**	**2,214**	**2,253**	**2,269**	**2,266**	**2,271**	**2,287**	**2,312**	**2,339**	**2,397**	**2,410**	**2,420**	**2,419**	**2,414**	**2,414**	**2,407**	**2,413**	**2,417**	**2,433**	**2,340**
Maximum Pounds per Day	**10.10**																																		
Maximum Pounds per Hour [a]	**1.01**																																		
Maximum Pounds per Month	**243.00**																																		
Month with Maximum	**36**																																		
Maximum Pounds per Year	**2,433**																																		
Maximum Average Pounds per Hour [b]	**0.28**																																		
Year with Maximum	**Months 34 - 45**																																		
Tons per Year	**1.22**																																		

Onsite and Offsite Fugitive PM_{10} Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)	68.21	68.21	84.16	84.16	84.16	84.16	84.16	84.16	84.16	84.16	84.16	68.21	68.21	68.21	68.21																				
Total (lbs/day)	2.97	2.97	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	2.97	2.97	2.97	2.97																				
Units 3 & 4 Demolition																																			
Total (lbs/month)										43.03	43.03	43.03	43.03	43.03	43.03	43.03	43.03	51.01	51.01	51.01	51.01	51.01	51.01	51.01	51.01	51.01	51.01	51.01	51.01	51.01	51.01	51.01	51.01	51.01	51.01
Total (lbs/day)										1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22
Block 1 Construction																																			
Total (lbs/month)																135.74	135.74	108.04	108.04	107.81	80.11	72.13	72.13	72.13	72.13	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18
Total (lbs/day)																5.90	5.90	4.70	4.70	4.69	3.48	3.14	3.14	3.14	3.14	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44
Block 2 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 1 & 2 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite and Offsite Fugitive PM_{10} Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																																			
Pounds per Month	**68.21**	**68.21**	**84.16**	**84.16**	**84.16**	**84.16**	**84.16**	**84.16**	**84.16**	**127.19**	**127.19**	**111.24**	**111.24**	**111.24**	**111.24**	**178.77**	**178.77**	**159.05**	**159.05**	**158.82**	**131.12**	**123.14**	**123.14**	**123.14**	**123.14**	**107.19**	**107.19**	**107.19**	**107.19**	**107.19**	**107.19**	**107.19**	**107.19**	**107.19**	**107.19**
Pounds per Day	**2.97**	**2.97**	**3.66**	**3.66**	**3.66**	**3.66**	**3.66**	**3.66**	**3.66**	**5.53**	**5.53**	**4.84**	**4.84**	**4.84**	**4.84**	**7.77**	**7.77**	**6.92**	**6.92**	**6.91**	**5.70**	**5.35**	**5.35**	**5.35**	**5.35**	**4.66**	**4.66**	**4.66**	**4.66**	**4.66**	**4.66**	**4.66**	**4.66**	**4.66**	**4.66**
Yearly Maximums	**1,091**	**1,134**	**1,177**	**1,204**	**1,299**	**1,394**	**1,468**	**1,543**	**1,618**	**1,665**	**1,661**	**1,657**	**1,669**	**1,681**	**1,677**	**1,673**	**1,601**	**1,529**	**1,478**	**1,426**	**1,374**	**1,350**	**1,334**	**1,318**	**1,370**	**1,439**	**1,524**	**1,580**	**1,629**	**1,678**	**1,699**	**1,713**	**1,726**	**1,739**	**1,704**
Maximum Pounds per Day	**8.34**																																		
Maximum Pounds per Hour [a]	**0.83**																																		
Maximum Pounds per Month	**191.81**																																		
Month with Maximum	**37 or 38**																																		
Maximum Pounds per Year	**1,739**																																		
Maximum Average Pounds per Hour [b]	**0.20**																																		
Year with Maximum	**Months 34 - 45**																																		
Tons per Year	**0.87**																																		

Table 5.1A.60R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite and Offsite PM_{10} Emissions (Exhaust and Fugitive)

Parameter	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Pounds per Month	125.92	129.85	148.22	164.65	174.00	175.60	183.85	185.36	195.06	253.68	253.90	239.92	253.17	245.74	245.74	325.03	338.50	338.22	349.19	346.39	303.45	298.54	302.32	308.53	312.91	301.91	301.92	313.44	305.17	302.85	293.99	299.55	295.72	308.15	313.26
Pounds per Day	5.47	5.65	6.44	7.16	7.57	7.63	7.99	8.06	8.48	11.03	11.04	10.43	11.01	10.68	10.68	14.11	14.68	14.61	15.08	14.86	12.99	12.76	12.83	13.03	13.22	12.65	12.55	12.92	12.53	12.43	12.06	12.34	12.28	12.90	13.12
Yearly Maximums	2,230	2,357	2,473	2,571	2,731	2,896	3,058	3,224	3,385	3,493	3,538	3,586	3,655	3,715	3,771	3,827	3,815	3,782	3,747	3,691	3,645	3,637	3,646	3,657	3,767	3,849	3,943	3,999	4,044	4,092	4,106	4,125	4,143	4,173	4,044

Maximum Pounds per Day	17.72
Maximum Pounds per Hour [a]	1.77
Maximum Pounds per Month	418.24
Month with Maximum	36
Maximum Pounds per Year	4,173
Maximum Average Pounds per Hour [b]	0.48
Year with Maximum	Months 34 - 45
Tons per Year	2.09

Onsite and Offsite Exhaust $PM_{2.5}$ Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)	57.55	58.70	60.58	73.81	79.47	79.95	83.65	84.16	92.54	79.40	79.09	80.92	89.15	85.17	84.56																				
Total (lbs/day)	2.50	2.55	2.63	3.21	3.46	3.48	3.64	3.66	4.02	3.45	3.44	3.52	3.88	3.70	3.68																				
Units 3 & 4 Demolition																																			
Total (lbs/month)										22.45	23.26	24.79	26.82	26.96	27.57	28.18	28.18	58.42	58.42	74.44	74.44	73.42	74.18	70.70	70.70	70.70	70.70	70.70	68.98	68.62	65.16	64.09	61.28	70.04	70.04
Total (lbs/day)										0.98	1.01	1.08	1.17	1.17	1.20	1.23	1.23	2.54	2.54	3.24	3.24	3.19	3.23	3.07	3.07	3.07	3.07	3.07	3.00	2.98	2.83	2.79	2.66	3.05	3.05
Block 1 Construction																																			
Total (lbs/month)																99.15	102.99	89.18	97.89	71.48	55.19	57.17	58.22	63.74	64.96	64.25	64.70	71.02	65.67	62.73	63.03	65.16	65.52	53.79	55.22
Total (lbs/day)																4.31	4.48	3.88	4.26	3.11	2.40	2.49	2.53	2.77	2.82	2.79	2.81	3.09	2.86	2.73	2.74	2.83	2.85	2.34	2.40
Block 2 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 1 & 2 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite and Offsite Exhaust $PM_{2.5}$ Emissions (Construction Equipment and Vehicles)																																			
Pounds per Month	57.55	58.70	60.58	73.81	79.47	79.95	83.65	84.16	92.54	101.85	102.35	105.71	115.97	112.13	112.13	127.33	131.17	147.60	156.32	145.91	129.62	130.59	132.41	134.44	135.66	134.96	135.41	141.73	134.65	131.35	128.19	129.25	126.80	123.84	125.26
Pounds per Day	2.50	2.55	2.63	3.21	3.46	3.48	3.64	3.66	4.02	4.43	4.45	4.60	5.04	4.88	4.88	5.54	5.70	6.42	6.80	6.34	5.64	5.68	5.76	5.85	5.90	5.87	5.89	6.16	5.85	5.71	5.57	5.62	5.51	5.38	5.45
Yearly Maximums	980	1,039	1,092	1,144	1,197	1,249	1,317	1,389	1,451	1,488	1,517	1,547	1,576	1,595	1,618	1,641	1,656	1,659	1,643	1,615	1,598	1,595	1,589	1,582	1,599	1,592	1,586	1,560	1,530	1,497	1,459	1,424	1,398	1,380	1,315

Maximum Pounds per Day	6.80
Maximum Pounds per Hour [a]	0.68
Maximum Pounds per Month	156.32
Month with Maximum	19
Maximum Pounds per Year	1,659
Maximum Average Pounds per Hour [b]	0.19
Year with Maximum	Months 18 - 29
Tons per Year	0.83

Onsite and Offsite Fugitive $PM_{2.5}$ Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)	7,047	7,047	8,642	8,642	8,642	8,642	8,642	8,642	8,642	8,642	8,642	7,047	7,047	7,047	7,047																				
Total (lbs/day)	0.306	0.306	0.376	0.376	0.376	0.376	0.376	0.376	0.376	0.376	0.376	0.306	0.306	0.306	0.306																				
Units 3 & 4 Demolition																																			
Total (lbs/month)										4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67
Total (lbs/day)										0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Block 1 Construction																																			
Total (lbs/month)																38.492	38.492	23.265	23.265	23.241	8.014	7.216	7.216	7.216	7.216	5.621	5.621	5.621	5.621	5.621	5.621	5.621	5.621	5.621	5.621
Total (lbs/day)																1.674	1.674	1.012	1.012	1.010	0.348	0.314	0.314	0.314	0.314	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244
Block 2 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 1 & 2 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite and Offsite Fugitive $PM_{2.5}$ Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																																			
Pounds per Month	7.05	7.05	8.64	8.64	8.64	8.64	8.64	8.64	8.64	13.52	13.52	11.92	11.92	11.92	11.92	43.37	43.37	28.94	28.94	28.91	13.69	12.89	12.89	12.89	12.89	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29
Pounds per Day	0.31	0.31	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.59	0.59	0.52	0.52	0.52	0.52	1.89	1.89	1.26	1.26	1.26	0.60	0.56	0.56	0.56	0.56	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
Yearly Maximums	114	118	123	127	161	196	216	237	257	262	261	261	262	263	262	261	229	197	180	162	144	142	140	139	156	188	220	238	255	272	273	274	275	275	271

Maximum Pounds per Day	1.92
Maximum Pounds per Hour [a]	0.19
Maximum Pounds per Month	44.10
Month with Maximum	37 or 38
Maximum Pounds per Year	275
Maximum Average Pounds per Hour [b]	0.03
Year with Maximum	Months 34 - 45
Tons per Year	0.14

Table 5.1A.60R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite and Offsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

Parameter	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Pounds per Month	64.59	65.75	69.22	82.46	88.11	88.59	92.29	92.81	101.18	115.37	115.87	117.63	127.89	124.06	124.06	170.70	174.54	176.54	185.25	174.83	143.31	143.48	145.30	147.33	148.55	146.25	146.70	153.02	145.94	142.65	139.49	140.54	138.10	135.13	136.56
Pounds per Day	2.81	2.86	3.01	3.59	3.83	3.85	4.01	4.04	4.40	5.02	5.04	5.11	5.56	5.39	5.39	7.42	7.59	7.68	8.05	7.60	6.23	6.24	6.32	6.41	6.46	6.36	6.38	6.65	6.35	6.20	6.06	6.11	6.00	5.88	5.94
Yearly Maximums	1,094	1,157	1,215	1,270	1,359	1,445	1,533	1,626	1,708	1,750	1,778	1,808	1,837	1,858	1,880	1,903	1,885	1,857	1,823	1,777	1,743	1,737	1,729	1,720	1,755	1,780	1,806	1,798	1,785	1,769	1,732	1,698	1,673	1,655	1,586

Maximum Pounds per Day	8.05
Maximum Pounds per Hour [a]	0.805
Maximum Pounds per Month	185.25
Month with Maximum	19
Maximum Pounds per Year	1,903
Maximum Average Pounds per Hour [b]	0.217
Year with Maximum	Months 16 - 27
Tons per Year	0.95

Onsite and Offsite CO_2 Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (metric tons/month)	56.81	58.79	68.27	87.70	97.81	98.64	107.71	108.75	119.75	112.24	112.01	108.99	118.56	107.67	106.71																				
Total (metric tons/day)	2.47	2.56	2.97	3.81	4.25	4.29	4.68	4.73	5.21	4.88	4.87	4.74	5.15	4.68	4.64																				
Units 3 & 4 Demolition																																			
Total (lbs/month)										41.97	44.23	46.63	50.81	50.69	51.65	53.59	53.59	93.88	93.88	123.11	123.11	135.58	137.84	130.09	130.09	130.09	130.09	130.09	125.24	124.33	116.77	114.02	106.87	141.32	141.32
Total (lbs/day)										1.82	1.92	2.03	2.21	2.20	2.25	2.33	2.33	4.08	4.08	5.35	5.35	5.89	5.99	5.66	5.66	5.66	5.66	5.66	5.45	5.41	5.08	4.96	4.65	6.14	6.14
Block 1 Construction																																			
Total (metric tons/month)																107.03	113.25	106.17	123.40	97.12	81.91	98.75	101.90	113.83	115.74	113.82	116.01	130.19	121.57	114.56	114.89	117.62	116.40	99.43	101.66
Total (metric tons/day)																4.65	4.92	4.62	5.37	4.22	3.56	4.29	4.43	4.95	5.03	4.95	5.04	5.66	5.29	4.98	5.00	5.11	5.06	4.32	4.42
Block 2 Construction																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Units 1 & 2 Demolition																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Bldgs. 33 & 34 Construction																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Total Onsite and Offsite CO_2 Emissions (Construction Equipment and Vehicles)																																			
Metric Tons per Month	56.81	58.79	68.27	87.70	97.81	98.64	107.71	108.75	119.75	154.21	156.24	155.61	169.36	158.36	158.36	160.62	166.84	200.05	217.28	220.24	205.02	234.33	239.74	243.91	245.83	243.91	246.09	260.28	246.81	238.89	231.65	231.64	223.26	240.75	242.98
Metric Tons per Day	2.47	2.56	2.97	3.81	4.25	4.29	4.68	4.73	5.21	6.70	6.79	6.77	7.36	6.89	6.89	6.98	7.25	8.70	9.45	9.58	8.91	10.19	10.42	10.60	10.69	10.60	10.70	11.32	10.73	10.39	10.07	10.07	9.71	10.47	10.56
Yearly Maximums	1,270	1,383	1,482	1,573	1,645	1,714	1,816	1,925	2,037	2,122	2,202	2,286	2,374	2,451	2,536	2,624	2,724	2,803	2,842	2,857	2,868	2,886	2,893	2,896	2,938	2,897	2,854	2,796	2,727	2,659	2,597	2,538	2,493	2,470	2,360

Maximum Metric Tons per Day	12.42
Maximum Metric Tons per Hour [a]	1.24
Maximum Metric Tons per Month	285.60
Month with Maximum	36
Maximum Metric Tons per Year	2,938
Maximum Average Metric Tons per Hour [b]	0.34
Year with Maximum	Months 25 - 36

Onsite and Offsite N_2O Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (metric tons/month)	0.00142731	0.00144630	0.00167892	0.00215756	0.00229894	0.00230664	0.00234111	0.00234813	0.00261681	0.00241743	0.00241015	0.00237268	0.00263595	0.00260146	0.00259073																					
Total (metric tons/day)	0.00006206	0.00006288	0.00007300	0.00009381	0.00009995	0.00010029	0.00010179	0.00010209	0.00011377	0.00010511	0.00010479	0.00010316	0.00011461	0.00011311	0.00011264																					
Units 3 & 4 Demolition																																			
Total (lbs/month)										0.000833	0.000840	0.000866	0.000895	0.000900	0.000910	0.000913	0.000913	0.001835	0.001835	0.002426	0.002426	0.002693	0.002699	0.002502	0.002502	0.002502	0.002502	0.002502	0.002485	0.002481	0.002434	0.002422	0.002390	0.002788	0.002788
Total (lbs/day)										0.000036	0.000037	0.000038	0.000039	0.000039	0.000040	0.000040	0.000040	0.000080	0.000080	0.000105	0.000105	0.000117	0.000117	0.000109	0.000109	0.000109	0.000109	0.000109	0.000108	0.000108	0.000106	0.000105	0.000104	0.000121	0.000121
Block 1 Construction																																			
Total (metric tons/month)																0.00268688	0.00275265	0.00253014	0.00294058	0.00216399	0.00176740	0.00217166	0.00218087	0.00240772	0.00242918	0.00227152	0.00226999	0.00250477	0.00225229	0.00206494	0.00207118	0.00211221	0.00212977	0.00173587	0.00176091
Total (metric tons/day)																0.00011682	0.00011968	0.00011001	0.00012785	0.00009409	0.00007684	0.00009442	0.00009482	0.00010468	0.00010562	0.00009876	0.00009870	0.00010890	0.00009793	0.00008978	0.00009005	0.00009184	0.00009260	0.00007547	0.00007656
Block 2 Construction																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Units 1 & 2 Demolition																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Bldgs. 33 & 34 Construction																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Total Onsite and Offsite N_2O Emissions (Construction Equipment and Vehicles)																																			
Metric Tons per Month	0.00142731	0.00144630	0.00167892	0.00215756	0.00229894	0.00230664	0.00234111	0.00234813	0.00261681	0.00325046	0.00324979	0.00323915	0.00353051	0.00350097	0.00350097	0.00360017	0.00366593	0.00436506	0.00477550	0.00459034	0.00419376	0.00486439	0.00488022	0.00490961	0.00493107	0.00477340	0.00477188	0.00500665	0.00473735	0.00454601	0.00450501	0.00453405	0.00452024	0.00452369	0.00454873
Metric Tons per Day	0.00006206	0.00006288	0.00007300	0.00009381	0.00009995	0.00010029	0.00010179	0.00010209	0.00011377	0.00014132	0.00014130	0.00014083	0.00015350	0.00015222	0.00015222	0.00015653	0.00015939	0.00018979	0.00020763	0.00019958	0.00018234	0.00021150	0.00021218	0.00021346	0.00021439	0.00020754	0.00020747	0.00021768	0.00020597	0.00019765	0.00019587	0.00019713	0.00019653	0.00019668	0.00019777
Yearly Maximums	0.02836	0.03046	0.03252	0.03434	0.03578	0.03715	0.03921	0.04164	0.04389	0.04546	0.04708	0.04871	0.05038	0.05178	0.05305	0.05432	0.05573	0.05680	0.05698	0.05671	0.05665	0.05698	0.05664	0.05631	0.05694	0.05626	0.05574	0.05469	0.05344	0.05205	0.05077	0.04956	0.04864	0.04795	0.04579

Maximum Metric Tons per Day	0.000241
Maximum Metric Tons per Hour [a]	0.0000241
Maximum Metric Tons per Month	0.00554
Month with Maximum	36
Maximum Metric Tons per Year	0.05698
Maximum Average Metric Tons per Hour [b]	0.00000650
Year with Maximum	Months 19 - 30

Onsite and Offsite CH_4 Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (metric tons/month)	0.0031823	0.0032695	0.0037973	0.0049271	0.0052644	0.0052994	0.0053762	0.0054037	0.0060261	0.0055702	0.0055290	0.0053470	0.0059224	0.0058724	0.0058208																					
Total (metric tons/day)	0.0001384	0.0001422	0.0001651	0.0002142	0.0002289	0.0002304	0.0002337	0.0002349	0.0002620	0.0002422	0.0002404	0.0002325	0.0002575	0.0002553	0.0002531																					
Units 3 & 4 Demolition																																			
Total (lbs/month)										0.001888	0.001895	0.002024	0.002134	0.002166	0.002217	0.002207	0.002207	0.004248	0.004248	0.005544	0.005544	0.006130	0.006137	0.005697	0.005697	0.005697	0.005697	0.005697	0.005666	0.005655	0.005477	0.005444	0.005357	0.006335	0.006335
Total (lbs/day)										0.000082	0.000082	0.000088	0.000093	0.000094	0.000096	0.000096	0.000096	0.000185	0.000185	0.000241	0.000241	0.000267	0.000267	0.000248	0.000248	0.000248	0.000248	0.000248	0.000246	0.000246	0.000238	0.000237	0.000233	0.000275	0.000275
Block 1 Construction																																			
Total (metric tons/month)																0.0059995	0.0063104	0.0058225	0.0067735	0.0051040	0.0042377	0.0051554	0.0051652	0.0057239	0.0058271	0.0055427	0.0055009	0.0060748	0.0055164	0.0051269	0.0051603	0.0053712	0.0054970	0.0046439	0.0047642
Total (metric tons/day)																0.0002608	0.0002744	0.0002532	0.0002945	0.0002219	0.0001842	0.0002241	0.0002246	0.0002489	0.0002534	0.0002410	0.0002392	0.0002641	0.0002398	0.0002229	0.0002244	0.0002335	0.0002390	0.0002019	0.0002071
Block 2 Construction																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Units 1 & 2 Demolition																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Bldgs. 33 & 34 Construction																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Total Onsite and Offsite CH_4 Emissions (Construction Equipment and Vehicles)																																			
Metric Tons per Month	0.00318	0.00327	0.00380	0.00493	0.00526	0.00530	0.00538	0.00540	0.00603	0.00746	0.00742	0.00737	0.00806	0.00804	0.00804	0.00821	0.00852	0.01007	0.01102	0.01065	0.00978	0.01129	0.01130	0.01142	0.01152	0.01124	0.01120	0.01177	0.01118	0.01078	0.01064	0.01082	0.01085	0.01098	0.01110
Metric Tons per Day	0.00014	0.00014	0.00017	0.00021	0.00023	0.00023	0.00023	0.00023	0.00026	0.00032	0.00032	0.00032	0.00035	0.00035	0.00035	0.00036	0.00037	0.00044	0.00048	0.00046	0.00043	0.00049	0.00049	0.00050	0.00050	0.00049	0.00049	0.00051	0.00049	0.00047	0.00046	0.00047	0.00047	0.00048	0.00048
Yearly Maximums	0.06480	0.06967	0.07444	0.07868	0.08196	0.08522	0.08999	0.09563	0.10087	0.10463	0.10846	0.11234	0.11639	0.11985	0.12306	0.12621	0.12978	0.13244	0.13316	0.13277	0.13294	0.13401	0.13371	0.13350	0.13558	0.13466	0.13416	0.13259	0.13061	0.12839	0.12637	0.12469	0.12342	0.12260	0.11747

Maximum Metric Tons per Day	0.000587
Maximum Metric Tons per Hour [a]	0.0000587
Maximum Metric Tons per Month	0.01350
Month with Maximum	36
Maximum Metric Tons per Year	0.13558
Maximum Average Metric Tons per Hour [b]	0.0000155
Year with Maximum	Months 25 - 36

Notes:
[a] The hours per day are per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 10 hours/day
[b] The hours per year are assumed to allow operation 24 hours per day, 7 days per week despite the actual construction schedule per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 8,760 hours/year

Table 5.1A.60R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Onsite and Offsite CO Emissions

	CO Emissions by Month																																		
Construction Step	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 3 & 4 Demolition																																			
Total (lbs/month)	1,185.17																																		
Total (lbs/day)	51.53																																		
Block 1 Construction																																			
Total (lbs/month)	703.61	671.11	648.80	664.38	585.18	594.61	550.90	547.49	689.46	681.61																									
Total (lbs/day)	30.59	29.18	28.21	28.89	25.44	25.85	23.95	23.80	29.98	29.64																									
Block 2 Construction																																			
Total (lbs/month)	520.95	1,349.65	1,377.62	1,085.41	1,188.69	987.35	847.74	868.37	879.59	939.02	922.11	956.89	1,105.29	1,069.35	898.84	894.57	893.62	890.71	819.68	686.09	648.15	631.09	626.82	551.44	501.41	357.02	544.01	539.74							
Total (lbs/day)	22.65	58.68	59.90	47.19	51.68	42.93	36.86	37.76	38.24	40.83	40.09	41.60	48.06	46.49	39.08	38.89	38.85	38.73	35.64	29.83	28.18	27.44	27.25	23.98	21.80	15.52	23.65	23.47							
Units 1 & 2 Demolition																																			
Total (lbs/month)																																683.95	688.08	892.52	910.81
Total (lbs/day)																																29.74	29.92	38.81	39.60
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite and Offsite CO Emissions (Construction Equipment and Vehicles)																																			
Pounds per Month	2,409.72	2,020.76	2,026.42	1,749.79	1,773.87	1,581.96	1,398.64	1,415.86	1,569.06	1,620.63	922.11	956.89	1,105.29	1,069.35	898.84	894.57	893.62	890.71	819.68	686.09	648.15	631.09	626.82	551.44	501.41	357.02	544.01	539.74	0.00	0.00	0.00	683.95	688.08	892.52	910.81
Pounds per Day	104.77	87.86	88.11	76.08	77.12	68.78	60.81	61.56	68.22	70.46	40.09	41.60	48.06	46.49	39.08	38.89	38.85	38.73	35.64	29.83	28.18	27.44	27.25	23.98	21.80	15.52	23.65	23.47	0.00	0.00	0.00	29.74	29.92	38.81	39.60
Yearly Maximums	19,446	18,141	17,190	16,062	15,207	14,327	13,636	13,057	12,327	11,406	10,416	10,121	9,716	9,112	8,399	8,045	7,690	6,796	5,905	5,086	5,084	5,124	5,385	5,669	6,161	6,711	7,370	7,842	8,327	9,351	10,535	12,054	12,895	13,775	14,395
Maximum Pounds per Day																																			
Maximum Pounds per Hour [a]																																			
Maximum Pounds per Month																																			
Month with Maximum																																			
Maximum Pounds per Year																																			
Maximum Average Pounds per Hour [b]																																			
Year with Maximum																																			
Tons per Year																																			

Onsite and Offsite VOC Emissions

	VOC Emissions by Month																																		
Construction Step	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 3 & 4 Demolition																																			
Total (lbs/month)	208.59																																		
Total (lbs/day)	9.07																																		
Block 1 Construction																																			
Total (lbs/month)	96.24	86.85	83.51	83.10	56.66	56.85	50.22	48.71	81.07	80.91																									
Total (lbs/day)	4.18	3.78	3.63	3.61	2.46	2.47	2.18	2.12	3.52	3.52																									
Block 2 Construction																																			
Total (lbs/month)	83.18	204.54	205.21	154.11	178.21	146.37	136.71	135.55	137.01	150.76	141.67	141.07	165.84	154.39	126.05	125.34	124.18	123.50	100.74	82.61	76.40	73.57	72.86	71.58	70.09	45.19	74.62	73.91							
Total (lbs/day)	3.62	8.89	8.92	6.70	7.75	6.36	5.94	5.89	5.96	6.55	6.16	6.13	7.21	6.71	5.48	5.45	5.40	5.37	4.38	3.59	3.32	3.20	3.17	3.11	3.05	1.96	3.24	3.21							
Units 1 & 2 Demolition																																			
Total (lbs/month)																																107.25	107.92	127.64	128.53
Total (lbs/day)																																4.66	4.69	5.55	5.59
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite and Offsite VOC Emissions (Construction Equipment and Vehicles)																																			
Pounds per Month	388.00	291.39	288.72	237.21	234.87	203.22	186.94	184.26	218.08	231.68	141.67	141.07	165.84	154.39	126.05	125.34	124.18	123.50	100.74	82.61	76.40	73.57	72.86	71.58	70.09	45.19	74.62	73.91	0.00	0.00	0.00	107.25	107.92	127.64	128.53
Pounds per Day	16.87	12.67	12.55	10.31	10.21	8.84	8.13	8.01	9.48	10.07	6.16	6.13	7.21	6.71	5.48	5.45	5.40	5.37	4.38	3.59	3.32	3.20	3.17	3.11	3.05	1.96	3.24	3.21	0.00	0.00	0.00	4.66	4.69	5.55	5.59
Yearly Maximums	2,747	2,525	2,388	2,225	2,113	2,003	1,923	1,837	1,735	1,593	1,435	1,367	1,297	1,201	1,092	1,041	989	865	742	641	665	697	751	807	877	949	1,036	1,094	1,154	1,288	1,438	1,631	1,717	1,814	1,884
Maximum Pounds per Day																																			
Maximum Pounds per Hour [a]																																			
Maximum Pounds per Month																																			
Month with Maximum																																			
Maximum Pounds per Year																																			
Maximum Average Pounds per Hour [b]																																			
Year with Maximum																																			
Tons per Year																																			

Onsite and Offsite NOx Emissions

	NOx Emissions by Month																																		
Construction Step	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 3 & 4 Demolition																																			
Total (lbs/month)	1,266.76																																		
Total (lbs/day)	55.08																																		
Block 1 Construction																																			
Total (lbs/month)	598.95	548.37	503.03	493.25	308.25	309.00	271.88	249.57	435.37	434.74																									
Total (lbs/day)	26.04	23.84	21.87	21.45	13.40	13.43	11.82	10.85	18.93	18.90																									
Block 2 Construction																																			
Total (lbs/month)	513.94	1,280.25	1,285.61	993.84	1,183.42	980.75	968.82	947.98	971.04	1,093.63	934.80	925.59	1,098.27	1,019.62	842.73	832.49	814.63	804.51	649.25	526.90	509.44	468.49	410.53	404.60	391.76	237.93	402.46	393.22							
Total (lbs/day)	22.35	55.66	55.90	43.21	51.45	42.64	42.12	41.22	42.22	47.55	40.64	40.24	47.75	44.33	36.64	36.20	35.42	34.98	28.23	22.91	22.15	20.37	17.85	17.59	17.03	10.34	17.50	17.10							
Units 1 & 2 Demolition																																			
Total (lbs/month)																																679.80	689.77	797.17	716.29
Total (lbs/day)																																29.56	29.99	34.66	31.14
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite and Offsite NOx Emissions (Construction Equipment and Vehicles)																																			
Pounds per Month	2,379.66	1,828.61	1,788.65	1,487.09	1,491.67	1,289.74	1,240.70	1,197.56	1,406.41	1,528.37	934.80	925.59	1,098.27	1,019.62	842.73	832.49	814.63	804.51	649.25	526.90	509.44	468.49	410.53	404.60	391.76	237.93	402.46	393.22	0.00	0.00	0.00	679.80	689.77	797.17	716.29
Pounds per Day	103.46	79.50	77.77	64.66	64.86	56.08	53.94	52.07	61.15	66.45	40.64	40.24	47.75	44.33	36.64	36.20	35.42	34.98	28.23	22.91	22.15	20.37	17.85	17.59	17.03	10.34	17.50	17.10	0.00	0.00	0.00	29.56	29.99	34.66	31.14
Yearly Maximums	17,499	16,217	15,408	14,463	13,808	13,131	12,646	12,054	11,384	10,487	9,427	8,902	8,381	7,675	6,893	6,453	6,014	5,199	4,395	3,745	3,898	4,079	4,407	4,713	5,088	5,476	5,962	6,283	6,631	7,372	8,234	9,366	9,825	10,355	10,738
Maximum Pounds per Day																																			
Maximum Pounds per Hour [a]																																			
Maximum Pounds per Month																																			
Month with Maximum																																			
Maximum Pounds per Year																																			
Maximum Average Pounds per Hour [b]																																			
Year with Maximum																																			
Tons per Year																																			

Table 5.1A.60R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Onsite and Offsite SOx Emissions

	SOx Emissions by Month																																		
Construction Step	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 3 & 4 Demolition																																			
Total (lbs/month)	3.11																																		
Total (lbs/day)	0.14																																		
Block 1 Construction																																			
Total (lbs/month)	2.0600	2.0274	1.8486	1.8548	1.4991	1.5221	1.4531	1.3811	1.5924	1.5733																									
Total (lbs/day)	0.0896	0.0881	0.0804	0.0806	0.0652	0.0662	0.0632	0.0600	0.0692	0.0684																									
Block 2 Construction																																			
Total (lbs/month)	1.1157	2.5349	2.6155	2.3151	2.7509	2.4446	2.4575	2.4465	2.5410	2.8588	2.8535	2.9084	3.4587	3.2994	2.8583	2.8146	2.7537	2.7136	2.4036	2.0616	2.1140	1.9392	1.8955	1.6962	1.5315	0.9943	1.3502	1.3065							
Total (lbs/day)	0.0485	0.1102	0.1137	0.1007	0.1196	0.1063	0.1068	0.1064	0.1105	0.1243	0.1241	0.1265	0.1504	0.1435	0.1243	0.1224	0.1197	0.1180	0.1045	0.0896	0.0919	0.0843	0.0824	0.0737	0.0666	0.0432	0.0587	0.0568							
Units 1 & 2 Demolition																																			
Total (lbs/month)																																1.8701	1.9173	2.3041	2.3939
Total (lbs/day)																																0.0813	0.0834	0.1002	0.1041
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite and Offsite SOx Emissions (Construction Equipment and Vehicles)																																			
Pounds per Month	6.2828	4.5623	4.4642	4.1698	4.2501	3.9668	3.9106	3.8276	4.1335	4.4321	2.8535	2.9084	3.4587	3.2994	2.8583	2.8146	2.7537	2.7136	2.4036	2.0616	2.1140	1.9392	1.8955	1.6962	1.5315	0.9943	1.3502	1.3065	0.0000	0.0000	0.0000	1.8701	1.9173	2.3041	2.3939
Pounds per Day	**0.2732**	**0.1984**	**0.1941**	**0.1813**	**0.1848**	**0.1725**	**0.1700**	**0.1664**	**0.1797**	**0.1927**	**0.1241**	**0.1265**	**0.1504**	**0.1435**	**0.1243**	**0.1224**	**0.1197**	**0.1180**	**0.1045**	**0.0896**	**0.0919**	**0.0843**	**0.0824**	**0.0737**	**0.0666**	**0.0432**	**0.0587**	**0.0568**	**0.0000**	**0.0000**	**0.0000**	**0.0813**	**0.0834**	**0.1002**	**0.1041**
Yearly Maximums	**50**	**47**	**46**	**44**	**43**	**41**	**40**	**38**	**37**	**35**	**32**	**31**	**30**	**28**	**26**	**24**	**23**	**20**	**17**	**15**	**15**	**15**	**15**	**15**	**16**	**17**	**19**	**20**	**21**	**24**	**27**	**31**	**33**	**35**	**36**
Maximum Pounds per Day																																			
Maximum Pounds per Hour [a]																																			
Maximum Pounds per Month																																			
Month with Maximum																																			
Maximum Pounds per Year																																			
Maximum Average Pounds per Hour [b]																																			
Year with Maximum																																			
Tons per Year																																			

Onsite and Offsite Exhaust PM_{10} Emissions

	Exhaust PM_{10} Emissions by Month																																		
Construction Step	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 3 & 4 Demolition																																			
Total (lbs/month)	93.78																																		
Total (lbs/day)	4.08																																		
Block 1 Construction																																			
Total (lbs/month)	105.95	106.45	100.14	103.46	97.11	99.30	96.99	95.60	96.40	94.57																									
Total (lbs/day)	4.14	4.16	4.13	4.34	4.06	4.16	4.06	4.12	4.16	4.08																									
Block 2 Construction																																			
Total (lbs/month)	43.27	96.61	104.21	90.43	104.40	98.42	91.73	96.87	100.45	110.19	107.82	117.18	142.68	140.41	132.14	130.75	130.07	129.04	124.77	113.03	113.79	108.22	104.55	84.11	70.34	46.63	55.83	54.46							
Total (lbs/day)	1.88	4.20	4.53	3.93	4.54	4.28	3.99	4.21	4.37	4.79	4.69	5.09	6.20	6.10	5.75	5.68	5.66	5.61	5.42	4.91	4.95	4.71	4.55	3.66	3.06	2.03	2.43	2.37							
Units 1 & 2 Demolition																																			
Total (lbs/month)																																40.19	41.66	52.39	53.35
Total (lbs/day)																																1.75	1.81	2.28	2.32
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite and Offsite Exhaust PM_{10} Emissions (Construction Equipment and Vehicles)																																			
Pounds per Month	243.00	203.06	204.35	193.89	201.51	197.72	188.72	192.47	196.85	204.76	107.82	117.18	142.68	140.41	132.14	130.75	130.07	129.04	124.77	113.03	113.79	108.22	104.55	84.11	70.34	46.63	55.83	54.46	0.00	0.00	0.00	40.19	41.66	52.39	53.35
Pounds per Day	**10.10**	**8.36**	**8.66**	**8.27**	**8.60**	**8.44**	**8.05**	**8.33**	**8.52**	**8.87**	**4.69**	**5.09**	**6.20**	**6.10**	**5.75**	**5.68**	**5.66**	**5.61**	**5.42**	**4.91**	**4.95**	**4.71**	**4.55**	**3.66**	**3.06**	**2.03**	**2.43**	**2.37**	**0.00**	**0.00**	**0.00**	**1.75**	**1.81**	**2.28**	**2.32**
Yearly Maximums	**2,251**	**2,151**	**2,088**	**2,016**	**1,953**	**1,882**	**1,813**	**1,749**	**1,670**	**1,586**	**1,490**	**1,487**	**1,454**	**1,381**	**1,287**	**1,211**	**1,135**	**1,005**	**876**	**751**	**678**	**606**	**550**	**499**	**472**	**462**	**474**	**476**	**483**	**544**	**628**	**735**	**804**	**875**	**934**
Maximum Pounds per Day																																			
Maximum Pounds per Hour [a]																																			
Maximum Pounds per Month																																			
Month with Maximum																																			
Maximum Pounds per Year																																			
Maximum Average Pounds per Hour [b]																																			
Year with Maximum																																			
Tons per Year																																			

Onsite and Offsite Fugitive PM_{10} Emissions

	Fugitive PM_{10} Emissions by Month																																		
Construction Step	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 3 & 4 Demolition																																			
Total (lbs/month)	51.01																																		
Total (lbs/day)	2.22																																		
Block 1 Construction																																			
Total (lbs/month)	56.18	56.18	56.18	56.18	48.21	48.21	48.21	48.21	48.43	48.43																									
Total (lbs/day)	2.44	2.44	2.44	2.44	2.10	2.10	2.10	2.10	2.11	2.11																									
Block 2 Construction																																			
Total (lbs/month)	68.05	135.63	135.63	107.92	107.92	107.81	80.11	72.13	72.13	72.13	72.13	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18	48.21	48.32	48.32							
Total (lbs/day)	2.96	5.90	5.90	4.69	4.69	4.69	3.48	3.14	3.14	3.14	3.14	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.10	2.10	2.10							
Units 1 & 2 Demolition																																			
Total (lbs/month)																																53.20	53.20	53.20	53.20
Total (lbs/day)																																2.31	2.31	2.31	2.31
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite and Offsite Fugitive PM_{10} Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																																			
Pounds per Month	175.24	191.81	191.81	164.11	156.13	156.02	128.32	120.34	120.57	120.57	72.13	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18	56.18	48.21	48.32	48.32	0.00	0.00	0.00	53.20	53.20	53.20	53.20
Pounds per Day	**7.62**	**8.34**	**8.34**	**7.14**	**6.79**	**6.78**	**5.58**	**5.23**	**5.24**	**5.24**	**3.14**	**2.44**	**2.44**	**2.44**	**2.44**	**2.44**	**2.44**	**2.44**	**2.44**	**2.44**	**2.44**	**2.44**	**2.44**	**2.44**	**2.44**	**2.10**	**2.10**	**2.10**	**0.00**	**0.00**	**0.00**	**2.31**	**2.31**	**2.31**	**2.31**
Yearly Maximums	**1,653**	**1,534**	**1,399**	**1,263**	**1,155**	**1,055**	**955**	**883**	**819**	**755**	**690**	**674**	**674**	**674**	**666**	**658**	**650**	**594**	**538**	**482**	**479**	**476**	**473**	**470**	**467**	**464**	**469**	**474**	**479**	**532**	**617**	**738**	**806**	**873**	**933**
Maximum Pounds per Day																																			
Maximum Pounds per Hour [a]																																			
Maximum Pounds per Month																																			
Month with Maximum																																			
Maximum Pounds per Year																																			
Maximum Average Pounds per Hour [b]																																			
Year with Maximum																																			
Tons per Year																																			

Table 5.1A.60R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite and Offsite PM_{10} Emissions (Ex

	Total PM_{10} Emissions by Month																																		
Parameter	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
Pounds per Month	418.24	394.87	396.16	358.00	357.64	353.74	317.04	312.81	317.42	325.33	179.96	173.36	198.87	196.60	188.32	186.93	186.25	185.22	180.95	169.22	169.98	164.41	160.73	140.30	126.52	94.84	104.15	102.78	0.00	0.00	0.00	93.39	94.86	105.59	106.56
Pounds per Day	17.72	16.70	17.00	15.41	15.39	15.22	13.62	13.56	13.77	14.11	7.82	7.54	8.65	8.55	8.19	8.13	8.10	8.05	7.87	7.36	7.39	7.15	6.99	6.10	5.50	4.12	4.53	4.47	0.00	0.00	0.00	4.06	4.12	4.59	4.63
Yearly Maximums	3,905	3,685	3,487	3,279	3,108	2,937	2,768	2,632	2,488	2,341	2,180	2,161	2,128	2,055	1,954	1,869	1,785	1,599	1,414	1,233	1,157	1,082	1,023	969	939	926	943	950	961	1,076	1,245	1,473	1,609	1,749	1,867
Maximum Pounds per Day																																			
Maximum Pounds per Hour [a]																																			
Maximum Pounds per Month																																			
Month with Maximum																																			
Maximum Pounds per Year																																			
Maximum Average Pounds per Hour [b]																																			
Year with Maximum																																			
Tons per Year																																			

Onsite and Offsite Exhaust $PM_{2.5}$ Emissions

	Exhaust $PM_{2.5}$ Emissions by Month																																		
Construction Step	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 3 & 4 Demolition																																			
Total (lbs/month)	70.04																																		
Total (lbs/day)	3.05																																		
Block 1 Construction																																			
Total (lbs/month)	48.47	45.81	42.98	43.64	37.30	37.91	35.60	34.67	43.36	42.85																									
Total (lbs/day)	2.11	1.99	1.87	1.90	1.62	1.65	1.55	1.51	1.89	1.86																									
Block 2 Construction																																			
Total (lbs/month)	33.24	83.40	85.59	65.78	74.29	64.31	57.50	58.37	59.92	65.61	59.18	61.53	72.77	70.19	62.50	61.89	61.30	60.79	55.74	47.67	46.08	43.64	40.86	35.14	31.05	20.74	30.24	29.62							
Total (lbs/day)	1.45	3.63	3.72	2.86	3.23	2.80	2.50	2.54	2.61	2.85	2.57	2.68	3.16	3.05	2.72	2.69	2.67	2.64	2.42	2.07	2.00	1.90	1.78	1.53	1.35	0.90	1.31	1.29							
Units 1 & 2 Demolition																																			
Total (lbs/month)																																33.58	34.24	41.03	38.04
Total (lbs/day)																																1.46	1.49	1.78	1.65
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite and Offsite Exhaust $PM_{2.5}$ Emissions (Construction Equipment and Vehicles)																																			
Pounds per Month	151.75	129.22	128.57	109.42	111.60	102.22	93.10	93.04	103.28	108.46	59.18	61.53	72.77	70.19	62.50	61.89	61.30	60.79	55.74	47.67	46.08	43.64	40.86	35.14	31.05	20.74	30.24	29.62	0.00	0.00	0.00	33.58	34.24	41.03	38.04
Pounds per Day	6.60	5.62	5.59	4.76	4.85	4.44	4.05	4.05	4.49	4.72	2.57	2.68	3.16	3.05	2.72	2.69	2.67	2.64	2.42	2.07	2.00	1.90	1.78	1.53	1.35	0.90	1.31	1.29	0.00	0.00	0.00	1.46	1.49	1.78	1.65
Yearly Maximums	1,251	1,172	1,113	1,047	1,000	949	908	871	825	768	703	685	659	617	567	535	503	442	381	325	311	299	297	294	300	311	331	341	353	394	447	518	556	596	627
Maximum Pounds per Day																																			
Maximum Pounds per Hour [a]																																			
Maximum Pounds per Month																																			
Month with Maximum																																			
Maximum Pounds per Year																																			
Maximum Average Pounds per Hour [b]																																			
Year with Maximum																																			
Tons per Year																																			

Onsite and Offsite Fugitive $PM_{2.5}$ Emissions

	Fugitive $PM_{2.5}$ Emissions by Month																																		
Construction Step	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Units 3 & 4 Demolition																																			
Total (lbs/month)	5.67																																		
Total (lbs/day)	0.25																																		
Block 1 Construction																																			
Total (lbs/month)	5,621	5,621	5,621	5,621	4,824	4,824	4,824	4,824	4,848	4,848																									
Total (lbs/day)	0.244	0.244	0.244	0.244	0.210	0.210	0.210	0.210	0.211	0.211																									
Block 2 Construction																																			
Total (lbs/month)	19,265	38,480	38,480	23,253	23,253	23,241	8,014	7,216	7,216	7,216	7,216	5,621	5,621	5,621	5,621	5,621	5,621	5,621	5,621	5,621	5,621	5,621	5,621	5,621	5,621	4,824	4,836	4,836							
Total (lbs/day)	0.838	1.673	1.673	1.011	1.011	1.010	0.348	0.314	0.314	0.314	0.314	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.210	0.210	0.210							
Units 1 & 2 Demolition																																			
Total (lbs/month)																																6.005	6.005	6.005	6.005
Total (lbs/day)																																0.261	0.261	0.261	0.261
Bldgs. 33 & 34 Construction																																			
Total (lbs/month)																																			
Total (lbs/day)																																			
Total Onsite and Offsite Fugitive $PM_{2.5}$ Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																																			
Pounds per Month	30.56	44.10	44.10	28.87	28.08	28.06	12.84	12.04	12.06	12.06	7.22	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62	4.92	4.84	4.84	0.00	0.00	0.00	6.01	6.01	6.01	6.01
Pounds per Day	1.33	1.92	1.92	1.26	1.22	1.22	0.56	0.52	0.52	0.52	0.31	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.21	0.21	0.21	0.00	0.00	0.00	0.26	0.26	0.26	0.26
Yearly Maximums	266	241	202	164	140	118	96	88	82	75	69	67	67	67	67	66	65	59	54	48	49	49	49	50	50	51	52	53	54	60	69	94	114	133	151
Maximum Pounds per Day																																			
Maximum Pounds per Hour [a]																																			
Maximum Pounds per Month																																			
Month with Maximum																																			
Maximum Pounds per Year																																			
Maximum Average Pounds per Hour [b]																																			
Year with Maximum																																			
Tons per Year																																			

Table 5.1A.60R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite and Offsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

	Total $PM_{2.5}$ Emissions by Month																																		
Parameter	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
Pounds per Month	182.31	173.32	172.68	138.29	139.67	130.28	105.94	105.08	115.34	120.52	66.40	67.15	78.39	75.81	68.12	67.51	66.92	66.41	61.37	53.29	51.70	49.26	46.48	40.76	36.67	25.56	35.07	34.46	0.00	0.00	0.00	39.58	40.25	47.04	44.05
Pounds per Day	7.93	7.54	7.51	6.01	6.07	5.66	4.61	4.57	5.01	5.24	2.89	2.92	3.41	3.30	2.96	2.94	2.91	2.89	2.67	2.32	2.25	2.14	2.02	1.77	1.59	1.11	1.52	1.50	0.00	0.00	0.00	1.72	1.75	2.05	1.92
Yearly Maximums	1,517	1,413	1,316	1,211	1,140	1,067	1,004	959	907	844	772	752	726	684	634	601	568	501	435	373	360	348	346	343	350	362	382	394	407	454	516	612	669	729	779
Maximum Pounds per Day																																			
Maximum Pounds per Hour [a]																																			
Maximum Pounds per Month																																			
Month with Maximum																																			
Maximum Pounds per Year																																			
Maximum Average Pounds per Hour [b]																																			
Year with Maximum																																			
Tons per Year																																			

Onsite and Offsite CO_2 Emissions

	CO_2 Emissions by Month																																		
Construction Step	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Units 3 & 4 Demolition																																			
Total (lbs/month)	141.32																																		
Total (lbs/day)	6.14																																		
Block 1 Construction																																			
Total (metric tons/month)	92.56	91.01	82.48	82.45	66.86	67.81	64.77	61.21	70.84	70.04																									
Total (metric tons/day)	4.02	3.96	3.59	3.58	2.91	2.95	2.82	2.66	3.08	3.05																									
Block 2 Construction																																			
Total (metric tons/month)	51.72	114.39	118.02	105.52	124.74	111.44	111.98	111.19	115.71	130.13	130.56	132.85	157.16	150.24	130.72	128.62	125.64	123.70	110.29	94.69	97.51	89.12	87.02	78.11	70.60	46.89	62.76	60.66							
Total (metric tons/day)	2.25	4.97	5.13	4.59	5.42	4.85	4.87	4.83	5.03	5.66	5.68	5.78	6.83	6.53	5.68	5.59	5.46	5.38	4.80	4.12	4.24	3.87	3.78	3.40	3.07	2.04	2.73	2.64							
Units 1 & 2 Demolition																																			
Total (metric tons/month)																																85.42	87.68	104.75	108.92
Total (metric tons/day)																																3.71	3.81	4.55	4.74
Bldgs. 33 & 34 Construction																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Total Onsite and Offsite CO_2 Emissions (Construction Equipment and Vehicles)																																			
Metric Tons per Month	285.60	205.40	200.50	187.98	191.59	179.25	176.75	172.40	186.55	200.17	130.56	132.85	157.16	150.24	130.72	128.62	125.64	123.70	110.29	94.69	97.51	89.12	87.02	78.11	70.60	46.89	62.76	60.66	0.00	0.00	0.00	85.42	87.68	104.75	108.92
Metric Tons per Day	12.42	8.93	8.72	8.17	8.33	7.79	7.68	7.50	8.11	8.70	5.68	5.78	6.83	6.53	5.68	5.59	5.46	5.38	4.80	4.12	4.24	3.87	3.78	3.40	3.07	2.04	2.73	2.64	0.00	0.00	0.00	3.71	3.81	4.55	4.74
Yearly Maximums	2,250	2,121	2,066	1,996	1,937	1,871	1,815	1,749	1,671	1,582	1,471	1,428	1,373	1,286	1,183	1,115	1,047	921	798	687	678	668	684	706	747	796	863	915	973	1,091	1,225	1,385	1,461	1,547	1,613
Maximum Metric Tons per Day																																			
Maximum Metric Tons per Hour [a]																																			
Maximum Metric Tons per Month																																			
Month with Maximum																																			
Maximum Metric Tons per Year																																			
Maximum Average Metric Tons per Hour [b]																																			
Year with Maximum																																			

Onsite and Offsite N_2O Emissions

	N_2O Emissions by Month																																		
Construction Step	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Units 3 & 4 Demolition																																			
Total (lbs/month)	0.002788																																		
Total (lbs/day)	0.000121																																		
Block 1 Construction																																			
Total (metric tons/month)	0.00154598	0.00147897	0.00145147	0.00146858	0.00107355	0.00108428	0.00100666	0.00100154	0.00131506	0.00130612																									
Total (metric tons/day)	0.00006722	0.00006430	0.00006311	0.00006385	0.00004668	0.00004714	0.00004377	0.00004355	0.00005718	0.00005679																									
Block 2 Construction																																			
Total (metric tons/month)	0.00120803	0.00276929	0.00280627	0.00225249	0.00268471	0.00226572	0.00225818	0.00228514	0.00230099	0.00252851	0.00236030	0.00240698	0.00289909	0.00270409	0.00224228	0.00223614	0.00223404	0.00222969	0.00184091	0.00159680	0.00152674	0.00150219	0.00149605	0.00139590	0.00132895	0.00084271	0.00120851	0.00120237							
Total (metric tons/day)	0.00005252	0.00012040	0.00012201	0.00009793	0.00011673	0.00009851	0.00009818	0.00009935	0.00010004	0.00010994	0.00010262	0.00010465	0.00012605	0.00011757	0.00009749	0.00009722	0.00009713	0.00009694	0.00008004	0.00006943	0.00006638	0.00006531	0.00006505	0.00006069	0.00005778	0.00003664	0.00005254	0.00005228							
Units 1 & 2 Demolition																																0.00193761	0.00194424	0.00234517	0.00237326
Total (metric tons/day)																																0.00008424	0.00008453	0.00010196	0.00010319
Bldgs. 33 & 34 Construction																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Total Onsite and Offsite N_2O Emissions (Construction Equipment and Vehicles)																																			
Metric Tons per Month	0.00554183	0.00424826	0.00425774	0.00372107	0.00375827	0.00335000	0.00326484	0.00328668	0.00361605	0.00383462	0.00236030	0.00240698	0.00289909	0.00270409	0.00224228	0.00223614	0.00223404	0.00222969	0.00184091	0.00159680	0.00152674	0.00150219	0.00149605	0.00139590	0.00132895	0.00084271	0.00120851	0.00120237	0.00000000	0.00000000	0.00000000	0.00193761	0.00194424	0.00234517	0.00237326
Metric Tons per Day	0.00024095	0.00018471	0.00018512	0.00016179	0.00016340	0.00014565	0.00014195	0.00014290	0.00015722	0.00016672	0.00010262	0.00010465	0.00012605	0.00011757	0.00009749	0.00009722	0.00009713	0.00009694	0.00008004	0.00006943	0.00006638	0.00006531	0.00006505	0.00006069	0.00005778	0.00003664	0.00005254	0.00005228	0.00000000	0.00000000	0.00000000	0.00008424	0.00008453	0.00010196	0.00010319
Yearly Maximums	0.04365	0.04100	0.03946	0.03744	0.03596	0.03444	0.03331	0.03189	0.03020	0.02811	0.02578	0.02492	0.02390	0.02233	0.02047	0.01944	0.01840	0.01617	0.01394	0.01210	0.01244	0.01286	0.01370	0.01458	0.01582	0.01714	0.01875	0.02000	0.02126	0.02373	0.02647	0.02984	0.03128	0.03291	0.03405
Maximum Metric Tons per Day																																			
Maximum Metric Tons per Hour [a]																																			
Maximum Metric Tons per Month																																			
Month with Maximum																																			
Maximum Metric Tons per Year																																			
Maximum Average Metric Tons per Hour [b]																																			
Year with Maximum																																			

Onsite and Offsite CH_4 Emissions

	CH_4 Emissions by Month																																		
Construction Step	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
Peaker and Tank Area and Stack 3&4 Demolition																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Units 3 & 4 Demolition																																			
Total (lbs/month)	0.006335																																		
Total (lbs/day)	0.000275																																		
Block 1 Construction																																			
Total (metric tons/month)	0.0043021	0.0042079	0.0041653	0.0042705	0.0033894	0.0034410	0.0032678	0.0032892	0.0038504	0.0038074																									
Total (metric tons/day)	0.0001870	0.0001830	0.0001811	0.0001857	0.0001474	0.0001496	0.0001421	0.0001430	0.0001674	0.0001655																									
Block 2 Construction																																			
Total (metric tons/month)	0.0028622	0.0064000	0.0065731	0.0053516	0.0064061	0.0055186	0.0054936	0.0056695	0.0056997	0.0062257	0.0058431	0.0060935	0.0074392	0.0070014	0.0059766	0.0059700	0.0060013	0.0060033	0.0051289	0.0045828	0.0044050	0.0043790	0.0043724	0.0038911	0.0035924	0.0022730	0.0030634	0.0030569							
Total (metric tons/day)	0.0001244	0.0002783	0.0002858	0.0002327	0.0002785	0.0002399	0.0002389	0.0002465	0.0002478	0.0002707	0.0002540	0.0002649	0.0003234	0.0003044	0.0002599	0.0002596	0.0002609	0.0002610	0.0002230	0.0001993	0.0001915	0.0001904	0.0001901	0.0001692	0.0001562	0.0000988	0.0001332	0.0001329							
Units 1 & 2 Demolition																																0.0043517	0.0043587	0.0053222	0.0054323
Total (metric tons/day)																																0.0001892	0.0001895	0.0002314	0.0002362
Bldgs. 33 & 34 Construction																																			
Total (metric tons/month)																																			
Total (metric tons/day)																																			
Total Onsite and Offsite CH_4 Emissions (Construction Equipment and Vehicles)																																			
Metric Tons per Month	0.01350	0.01061	0.01074	0.00962	0.00980	0.00896	0.00876	0.00896	0.00955	0.01003	0.00584	0.00609	0.00744	0.00700	0.00598	0.00597	0.00600	0.00600	0.00513	0.00458	0.00441	0.00438	0.00437	0.00389	0.00359	0.00227	0.00306	0.00306	0.00000	0.00000	0.00000	0.00435	0.00436	0.00532	0.00543
Metric Tons per Day	0.00059	0.00046	0.00047	0.00042	0.00043	0.00039	0.00038	0.00039	0.00042	0.00044	0.00025	0.00026	0.00032	0.00030	0.00026	0.00026	0.00026	0.00026	0.00022	0.00020	0.00019	0.00019	0.00019	0.00017	0.00016	0.00010	0.00013	0.00013	0.00000	0.00000	0.00000	0.00019	0.00019	0.00023	0.00024
Yearly Maximums	0.11246	0.10640	0.10280	0.09803	0.09438	0.09059	0.08763	0.08400	0.07962	0.07448	0.06882	0.06735	0.06515	0.06130	0.05658	0.05366	0.05075	0.04475	0.03874	0.03362	0.03338	0.03334	0.03428	0.03534	0.03749	0.04000	0.04337	0.04595	0.04855	0.05421	0.06063	0.06848	0.07200	0.07597	0.07873
Maximum Metric Tons per Day																																			
Maximum Metric Tons per Hour [a]																																			
Maximum Metric Tons per Month																																			
Month with Maximum																																			
Maximum Metric Tons per Year																																			
Maximum Average Metric Tons per Hour [b]																																			
Year with Maximum																																			

Notes:
[a] The hours per day are per 'Manpower Schedule Huntington Be
[b] The hours per year are assumed to allow operation 24 hours per

Table 5.1A.60R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Onsite and Offsite CO Emissions

Construction Step	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 3 & 4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 1 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 2 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 1 & 2 Demolition																				
Total (lbs/month)	1,043.79	1,050.86	1,016.20	1,016.20	1,024.47	1,024.47	1,036.88	1,036.88	1,041.01	1,045.15	1,045.15	1,045.15	1,131.84	1,131.84	1,131.84	1,112.94	1,110.38	1,079.70	1,072.03	1,060.01
Total (lbs/day)	45.38	45.69	44.18	44.18	44.54	44.54	45.08	45.08	45.26	45.44	45.44	45.44	49.21	49.21	49.21	48.39	48.28	46.94	46.61	46.09
Bldgs. 33 & 34 Construction																				
Total (lbs/month)							147.13	482.16	483.86	522.42	467.25	462.70	155.63	156.22	162.88	170.66	157.33	175.11	171.77	87.33
Total (lbs/day)							6.40	20.96	21.04	22.71	20.32	20.12	6.77	6.79	7.08	7.42	6.84	7.61	7.47	3.80
Total Onsite and Offsite CO Emissions (Construction Equipment and Vehicles)																				
Pounds per Month	**1,043.79**	**1,050.86**	**1,016.20**	**1,016.20**	**1,024.47**	**1,024.47**	**1,184.01**	**1,519.04**	**1,524.87**	**1,567.56**	**1,512.39**	**1,507.84**	**1,287.47**	**1,288.06**	**1,294.72**	**1,283.60**	**1,267.71**	**1,254.81**	**1,243.80**	**1,147.34**
Pounds per Day	**45.38**	**45.69**	**44.18**	**44.18**	**44.54**	**44.54**	**51.48**	**66.05**	**66.30**	**68.15**	**65.76**	**65.56**	**55.98**	**56.00**	**56.29**	**55.81**	**55.12**	**54.56**	**54.08**	**49.88**
Yearly Maximums	**14,992**	**15,235**	**15,473**	**15,751**	**16,019**	**16,262**	**16,492**	**16,552**	**16,180**											

Maximum Pounds per Day	
Maximum Pounds per Hour [a]	
Maximum Pounds per Month	
Month with Maximum	
Maximum Pounds per Year	
Maximum Average Pounds per Hour [b]	
Year with Maximum	
Tons per Year	

Onsite and Offsite VOC Emissions

Construction Step	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 3 & 4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 1 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 2 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 1 & 2 Demolition																				
Total (lbs/month)	142.08	142.19	132.33	132.33	133.67	133.67	135.69	135.69	136.36	137.04	137.04	137.04	154.63	154.63	154.63	151.91	151.66	149.96	149.24	148.62
Total (lbs/day)	6.18	6.18	5.75	5.75	5.81	5.81	5.90	5.90	5.93	5.96	5.96	5.96	6.72	6.72	6.72	6.60	6.59	6.52	6.49	6.46
Bldgs. 33 & 34 Construction																				
Total (lbs/month)							14.37	57.30	57.25	67.61	61.18	59.96	18.11	18.04	18.15	18.27	18.06	18.34	18.28	16.97
Total (lbs/day)							0.62	2.49	2.49	2.94	2.66	2.61	0.79	0.78	0.79	0.79	0.79	0.80	0.79	0.74
Total Onsite and Offsite VOC Emissions (Construction Equipment and Vehicles)																				
Pounds per Month	**142.08**	**142.19**	**132.33**	**132.33**	**133.67**	**133.67**	**150.06**	**193.00**	**193.62**	**204.65**	**198.21**	**196.99**	**172.74**	**172.67**	**172.78**	**170.17**	**169.72**	**168.30**	**167.52**	**165.59**
Pounds per Day	**6.18**	**6.18**	**5.75**	**5.75**	**5.81**	**5.81**	**6.52**	**8.39**	**8.42**	**8.90**	**8.62**	**8.56**	**7.51**	**7.51**	**7.51**	**7.40**	**7.38**	**7.32**	**7.28**	**7.20**
Yearly Maximums	**1,953**	**1,983**	**2,014**	**2,054**	**2,092**	**2,128**	**2,163**	**2,180**	**2,153**											

Maximum Pounds per Day	
Maximum Pounds per Hour [a]	
Maximum Pounds per Month	
Month with Maximum	
Maximum Pounds per Year	
Maximum Average Pounds per Hour [b]	
Year with Maximum	
Tons per Year	

Onsite and Offsite NOx Emissions

Construction Step	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 3 & 4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 1 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 2 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 1 & 2 Demolition																				
Total (lbs/month)	779.63	780.22	723.30	723.30	741.38	741.38	768.51	768.51	777.56	786.60	786.60	712.80	809.51	809.51	809.51	775.75	772.63	749.14	739.78	731.51
Total (lbs/day)	33.90	33.92	31.45	31.45	32.23	32.23	33.41	33.41	33.81	34.20	34.20	30.99	35.20	35.20	35.20	33.73	33.59	32.57	32.16	31.80
Bldgs. 33 & 34 Construction																				
Total (lbs/month)							93.74	362.67	361.66	433.45	393.10	356.75	122.03	121.35	123.55	126.13	121.72	127.60	126.49	98.57
Total (lbs/day)							4.08	15.77	15.72	18.85	17.09	15.51	5.31	5.28	5.37	5.48	5.29	5.55	5.50	4.29
Total Onsite and Offsite NOx Emissions (Construction Equipment and Vehicles)																				
Pounds per Month	**779.63**	**780.22**	**723.30**	**723.30**	**741.38**	**741.38**	**862.26**	**1,131.18**	**1,139.22**	**1,220.05**	**1,179.70**	**1,069.54**	**931.54**	**930.86**	**933.06**	**901.88**	**894.35**	**876.74**	**866.28**	**830.08**
Pounds per Day	**33.90**	**33.92**	**31.45**	**31.45**	**32.23**	**32.23**	**37.49**	**49.18**	**49.53**	**53.05**	**51.29**	**46.50**	**40.50**	**40.47**	**40.57**	**39.21**	**38.88**	**38.12**	**37.66**	**36.09**
Yearly Maximums	**11,091**	**11,243**	**11,394**	**11,603**	**11,782**	**11,935**	**12,070**	**12,074**	**11,773**											

Maximum Pounds per Day	
Maximum Pounds per Hour [a]	
Maximum Pounds per Month	
Month with Maximum	
Maximum Pounds per Year	
Maximum Average Pounds per Hour [b]	
Year with Maximum	
Tons per Year	

Table 5.1A.60R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Onsite and Offsite SOx Emissions

Construction Step	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 3 & 4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 1 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 2 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 1 & 2 Demolition																				
Total (lbs/month)	2.6239	2.6452	2.5084	2.5084	2.6027	2.6027	2.7442	2.7442	2.7913	2.8385	2.8385	2.8385	3.0940	3.0940	3.0940	2.8982	2.8789	2.7170	2.6592	2.6024
Total (lbs/day)	0.1141	0.1150	0.1091	0.1091	0.1132	0.1132	0.1193	0.1193	0.1214	0.1234	0.1234	0.1234	0.1345	0.1345	0.1345	0.1260	0.1252	0.1181	0.1156	0.1131
Bldgs. 33 & 34 Construction																				
Total (lbs/month)							0.3071	0.9476	0.9484	1.1567	1.0943	1.0107	0.4882	0.4854	0.5068	0.5317	0.4890	0.5460	0.5353	0.2647
Total (lbs/day)							0.0134	0.0412	0.0412	0.0503	0.0476	0.0439	0.0212	0.0211	0.0220	0.0231	0.0213	0.0237	0.0233	0.0115
Total Onsite and Offsite SOx Emissions (Construction Equipment and Vehicles)																				
Pounds per Month	**2.6239**	**2.6452**	**2.5084**	**2.5084**	**2.6027**	**2.6027**	**3.0513**	**3.6918**	**3.7398**	**3.9952**	**3.9328**	**3.8492**	**3.5821**	**3.5794**	**3.6008**	**3.4299**	**3.3679**	**3.2630**	**3.1944**	**2.8671**
Pounds per Day	**0.1141**	**0.1150**	**0.1091**	**0.1091**	**0.1132**	**0.1132**	**0.1327**	**0.1605**	**0.1626**	**0.1737**	**0.1710**	**0.1674**	**0.1557**	**0.1556**	**0.1566**	**0.1491**	**0.1464**	**0.1419**	**0.1389**	**0.1247**
Yearly Maximums	**38**	**39**	**40**	**41**	**42**	**42**	**43**	**43**	**42**											
Maximum Pounds per Day																				
Maximum Pounds per Hour [a]																				
Maximum Pounds per Month																				
Month with Maximum																				
Maximum Pounds per Year																				
Maximum Average Pounds per Hour [b]																				
Year with Maximum																				
Tons per Year																				

Onsite and Offsite Exhaust PM_{10} Emissions

Construction Step	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 3 & 4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 1 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 2 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 1 & 2 Demolition																				
Total (lbs/month)	57.61	59.80	58.25	58.25	61.14	61.14	65.48	65.48	66.93	68.37	68.37	63.67	67.92	67.92	67.92	61.49	60.65	50.87	48.35	44.59
Total (lbs/day)	2.50	2.60	2.53	2.53	2.66	2.66	2.85	2.85	2.91	2.97	2.97	2.77	2.95	2.95	2.95	2.67	2.64	2.21	2.10	1.94
Bldgs. 33 & 34 Construction																				
Total (lbs/month)							18.81	41.38	41.92	45.15	42.67	38.41	26.90	27.07	29.26	31.82	27.44	33.28	32.18	4.43
Total (lbs/day)							0.82	1.80	1.82	1.96	1.86	1.67	1.17	1.18	1.27	1.38	1.19	1.45	1.40	0.19
Total Onsite and Offsite Exhaust PM_{10} Emissions (Construction Equipment and Vehicles)																				
Pounds per Month	**57.61**	**59.80**	**58.25**	**58.25**	**61.14**	**61.14**	**84.29**	**106.86**	**108.84**	**113.53**	**111.05**	**102.09**	**94.81**	**94.99**	**97.18**	**93.31**	**88.09**	**84.15**	**80.53**	**49.01**
Pounds per Day	**2.50**	**2.60**	**2.53**	**2.53**	**2.66**	**2.66**	**3.66**	**4.65**	**4.73**	**4.94**	**4.83**	**4.44**	**4.12**	**4.13**	**4.23**	**4.06**	**3.83**	**3.66**	**3.50**	**2.13**
Yearly Maximums	**983**	**1,020**	**1,055**	**1,094**	**1,129**	**1,156**	**1,179**	**1,175**	**1,118**											
Maximum Pounds per Day																				
Maximum Pounds per Hour [a]																				
Maximum Pounds per Month																				
Month with Maximum																				
Maximum Pounds per Year																				
Maximum Average Pounds per Hour [b]																				
Year with Maximum																				
Tons per Year																				

Onsite and Offsite Fugitive PM_{10} Emissions

Construction Step	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 3 & 4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 1 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 2 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 1 & 2 Demolition																				
Total (lbs/month)	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20	53.20
Total (lbs/day)	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31
Bldgs. 33 & 34 Construction																				
Total (lbs/month)							31.90	67.66	67.66	67.66	59.69	59.69	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90
Total (lbs/day)							1.39	2.94	2.94	2.94	2.60	2.60	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
Total Onsite and Offsite Fugitive PM_{10} Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																				
Pounds per Month	**53.20**	**53.20**	**53.20**	**53.20**	**53.20**	**53.20**	**85.10**	**120.86**	**120.86**	**120.86**	**112.89**	**112.89**	**85.10**	**85.10**	**85.10**	**85.10**	**85.10**	**85.10**	**85.10**	**85.10**
Pounds per Day	**2.31**	**2.31**	**2.31**	**2.31**	**2.31**	**2.31**	**3.70**	**5.25**	**5.25**	**5.25**	**4.91**	**4.91**	**3.70**	**3.70**	**3.70**	**3.70**	**3.70**	**3.70**	**3.70**	**3.70**
Yearly Maximums	**993**	**1,025**	**1,056**	**1,088**	**1,120**	**1,152**	**1,184**	**1,184**	**1,148**											
Maximum Pounds per Day																				
Maximum Pounds per Hour [a]																				
Maximum Pounds per Month																				
Month with Maximum																				
Maximum Pounds per Year																				
Maximum Average Pounds per Hour [b]																				
Year with Maximum																				
Tons per Year																				

Table 5.1A.60R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite and Offsite PM_{10} Emissions (Ex

Parameter	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Pounds per Month	110.81	113.00	111.45	111.45	114.34	114.34	169.39	227.72	229.71	234.39	223.93	214.97	179.92	180.09	182.29	178.42	173.19	169.25	165.64	134.12
Pounds per Day	4.82	4.91	4.85	4.85	4.97	4.97	7.36	9.90	9.99	10.19	9.74	9.35	7.82	7.83	7.93	7.76	7.53	7.36	7.20	5.83
Yearly Maximums	1,976	2,045	2,112	2,183	2,250	2,308	2,363	2,360	2,266											
Maximum Pounds per Day																				
Maximum Pounds per Hour [a]																				
Maximum Pounds per Month																				
Month with Maximum																				
Maximum Pounds per Year																				
Maximum Average Pounds per Hour [b]																				
Year with Maximum																				
Tons per Year																				

Onsite and Offsite Exhaust $PM_{2.5}$ Emissions

Construction Step	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 3 & 4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 1 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 2 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 1 & 2 Demolition																				
Total (lbs/month)	41.52	42.13	40.29	40.29	41.57	41.57	43.48	43.48	44.12	44.76	44.76	40.09	44.33	44.33	44.33	41.66	41.35	38.17	37.25	36.06
Total (lbs/day)	1.81	1.83	1.75	1.75	1.81	1.81	1.89	1.89	1.92	1.95	1.95	1.74	1.93	1.93	1.93	1.81	1.80	1.66	1.62	1.57
Bldgs. 33 & 34 Construction																				
Total (lbs/month)							9.27	27.23	27.35	30.05	27.45	24.01	10.66	10.68	11.30	12.01	10.79	12.42	12.12	4.34
Total (lbs/day)							0.40	1.18	1.19	1.31	1.19	1.04	0.46	0.46	0.49	0.52	0.47	0.54	0.53	0.19
Total Onsite and Offsite Exhaust $PM_{2.5}$ Emissions (Construction Equipment and Vehicles)																				
Pounds per Month	41.52	42.13	40.29	40.29	41.57	41.57	52.75	70.72	71.47	74.81	72.21	64.10	55.00	55.02	55.63	53.67	52.13	50.59	49.36	40.41
Pounds per Day	1.81	1.83	1.75	1.75	1.81	1.81	2.29	3.07	3.11	3.25	3.14	2.79	2.39	2.39	2.42	2.33	2.27	2.20	2.15	1.76
Yearly Maximums	653	667	680	695	709	719	728	725	694											
Maximum Pounds per Day																				
Maximum Pounds per Hour [a]																				
Maximum Pounds per Month																				
Month with Maximum																				
Maximum Pounds per Year																				
Maximum Average Pounds per Hour [b]																				
Year with Maximum																				
Tons per Year																				

Onsite and Offsite Fugitive $PM_{2.5}$ Emissions

Construction Step	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 3 & 4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 1 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 2 Construction																				
Total (lbs/month)																				
Total (lbs/day)																				
Units 1 & 2 Demolition																				
Total (lbs/month)	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005
Total (lbs/day)	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261
Bldgs. 33 & 34 Construction																				
Total (lbs/month)							3.190	19.224	19.224	19.224	18.426	18.426	3.190	3.190	3.190	3.190	3.190	3.190	3.190	3.190
Total (lbs/day)							0.139	0.836	0.836	0.836	0.801	0.801	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139
Total Onsite and Offsite Fugitive $PM_{2.5}$ Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																				
Pounds per Month	6.01	6.01	6.01	6.01	6.01	6.01	9.20	25.23	25.23	25.23	24.43	24.43	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20
Pounds per Day	0.26	0.26	0.26	0.26	0.26	0.26	0.40	1.10	1.10	1.10	1.06	1.06	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Yearly Maximums	170	173	176	179	183	186	189	189	173											
Maximum Pounds per Day																				
Maximum Pounds per Hour [a]																				
Maximum Pounds per Month																				
Month with Maximum																				
Maximum Pounds per Year																				
Maximum Average Pounds per Hour [b]																				
Year with Maximum																				
Tons per Year																				

Table 5.1A.60R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite and Offsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

Parameter	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Pounds per Month	47.52	48.14	46.30	46.30	47.58	47.58	61.95	95.95	96.70	100.04	96.64	88.53	64.19	64.21	64.83	62.87	61.33	59.79	58.56	49.60
Pounds per Day	2.07	2.09	2.01	2.01	2.07	2.07	2.69	4.17	4.20	4.35	4.20	3.85	2.79	2.79	2.82	2.73	2.67	2.60	2.55	2.16
Yearly Maximums	823	840	856	874	891	905	917	914	867											
Maximum Pounds per Day																				
Maximum Pounds per Hour [a]																				
Maximum Pounds per Month																				
Month with Maximum																				
Maximum Pounds per Year																				
Maximum Average Pounds per Hour [b]																				
Year with Maximum																				
Tons per Year																				

Onsite and Offsite CO_2 Emissions

Construction Step	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																				
Total (metric tons/month)																				
Total (metric tons/day)																				
Units 3 & 4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 1 Construction																				
Total (metric tons/month)																				
Total (metric tons/day)																				
Block 2 Construction																				
Total (metric tons/month)																				
Total (metric tons/day)																				
Units 1 & 2 Demolition																				
Total (metric tons/month)	119.00	119.95	114.14	114.14	118.67	118.67	125.46	125.46	127.72	129.99	129.99	129.99	141.22	141.22	141.22	131.84	130.93	123.39	120.65	118.03
Total (metric tons/day)	5.17	5.22	4.96	4.96	5.16	5.16	5.45	5.45	5.55	5.65	5.65	5.65	6.14	6.14	6.14	5.73	5.69	5.36	5.25	5.13
Bldgs. 33 & 34 Construction																				
Total (metric tons/month)							7.94	34.44	34.14	43.38	41.08	36.56	11.96	11.66	11.66	11.66	11.66	11.66	11.66	11.66
Total (metric tons/day)							0.35	1.50	1.48	1.89	1.79	1.59	0.52	0.51	0.51	0.51	0.51	0.51	0.51	0.51
Total Onsite and Offsite CO_2 Emissions (Construction Equipment and Vehicles)																				
Metric Tons per Month	119.00	119.95	114.14	114.14	118.67	118.67	133.40	159.90	161.86	173.37	171.07	166.54	153.18	152.87	152.87	143.50	142.59	135.05	132.31	129.69
Metric Tons per Day	5.17	5.22	4.96	4.96	5.16	5.16	5.80	6.95	7.04	7.54	7.44	7.24	6.66	6.65	6.65	6.24	6.20	5.87	5.75	5.64
Yearly Maximums	1,671	1,705	1,738	1,777	1,806	1,830	1,846	1,845	1,815											
Maximum Metric Tons per Day																				
Maximum Metric Tons per Hour [a]																				
Maximum Metric Tons per Month																				
Month with Maximum																				
Maximum Metric Tons per Year																				
Maximum Average Metric Tons per Hour [b]																				
Year with Maximum																				

Onsite and Offsite N_2O Emissions

Construction Step	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																				
Total (metric tons/month)																				
Total (metric tons/day)																				
Units 3 & 4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 1 Construction																				
Total (metric tons/month)																				
Total (metric tons/day)																				
Block 2 Construction																				
Total (metric tons/month)																				
Total (metric tons/day)																				
Units 1 & 2 Demolition																				
Total (metric tons/month)	0.00263794	0.00264867	0.00245426	0.00245426	0.00246751	0.00246751	0.00248738	0.00248738	0.00249401	0.00250063	0.00250063	0.00250063	0.00278656	0.00278656	0.00278656	0.00275649	0.00275249	0.00270527	0.00269328	0.00267515
Total (metric tons/day)	0.00011469	0.00011516	0.00010671	0.00010671	0.00010728	0.00010728	0.00010815	0.00010815	0.00010844	0.00010872	0.00010872	0.00010872	0.00012115	0.00012115	0.00012115	0.00011985	0.00011967	0.00011762	0.00011710	0.00011631
Bldgs. 33 & 34 Construction																				
Total (metric tons/month)							0.00025636	0.00087739	0.00088009	0.00108157	0.00098081	0.00097293	0.00039665	0.00039756	0.00040829	0.00042081	0.00039935	0.00042796	0.00042260	0.00028667
Total (metric tons/day)							0.00001115	0.00003815	0.00003826	0.00004702	0.00004264	0.00004230	0.00001725	0.00001729	0.00001775	0.00001830	0.00001736	0.00001861	0.00001837	0.00001246
Total Onsite and Offsite N_2O Emissions (Construction Equipment and Vehicles)																				
Metric Tons per Month	0.00263794	0.00264867	0.00245426	0.00245426	0.00246751	0.00246751	0.00274375	0.00336478	0.00337409	0.00358220	0.00348144	0.00347356	0.00318322	0.00318412	0.00319485	0.00317730	0.00315184	0.00313323	0.00311587	0.00296182
Metric Tons per Day	0.00011469	0.00011516	0.00010671	0.00010671	0.00010728	0.00010728	0.00011929	0.00014629	0.00014670	0.00015575	0.00015137	0.00015102	0.00013840	0.00013844	0.00013891	0.00013814	0.00013704	0.00013623	0.00013547	0.00012877
Yearly Maximums	0.03515	0.03570	0.03623	0.03697	0.03769	0.03838	0.03904	0.03942	0.03901											
Maximum Metric Tons per Day																				
Maximum Metric Tons per Hour [a]																				
Maximum Metric Tons per Month																				
Month with Maximum																				
Maximum Metric Tons per Year																				
Maximum Average Metric Tons per Hour [b]																				
Year with Maximum																				

Onsite and Offsite CH_4 Emissions

Construction Step	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																				
Total (metric tons/month)																				
Total (metric tons/day)																				
Units 3 & 4 Demolition																				
Total (lbs/month)																				
Total (lbs/day)																				
Block 1 Construction																				
Total (metric tons/month)																				
Total (metric tons/day)																				
Block 2 Construction																				
Total (metric tons/month)																				
Total (metric tons/day)																				
Units 1 & 2 Demolition																				
Total (metric tons/month)	0.0060438	0.0060954	0.0056447	0.0056447	0.0056588	0.0056588	0.0056799	0.0056799	0.0056870	0.0056940	0.0056940	0.0056940	0.0063318	0.0063318	0.0063318	0.0062865	0.0062756	0.0060982	0.0060654	0.0059925
Total (metric tons/day)	0.0002628	0.0002650	0.0002454	0.0002454	0.0002460	0.0002460	0.0002470	0.0002470	0.0002473	0.0002476	0.0002476	0.0002476	0.0002753	0.0002753	0.0002753	0.0002733	0.0002729	0.0002651	0.0002637	0.0002605
Bldgs. 33 & 34 Construction																				
Total (metric tons/month)							0.0007368	0.0021705	0.0021868	0.0026311	0.0023910	0.0024028	0.0011638	0.0011715	0.0012230	0.0012832	0.0011801	0.0013176	0.0012918	0.0006386
Total (metric tons/day)							0.0000320	0.0000944	0.0000951	0.0001144	0.0001040	0.0001045	0.0000506	0.0000509	0.0000532	0.0000558	0.0000513	0.0000573	0.0000562	0.0000278
Total Onsite and Offsite CH_4 Emissions (Construction Equipment and Vehicles)																				
Metric Tons per Month	0.00604	0.00610	0.00564	0.00564	0.00566	0.00566	0.00642	0.00785	0.00787	0.00833	0.00809	0.00810	0.00750	0.00750	0.00755	0.00757	0.00746	0.00742	0.00736	0.00663
Metric Tons per Day	0.00026	0.00027	0.00025	0.00025	0.00025	0.00025	0.00028	0.00034	0.00034	0.00036	0.00035	0.00035	0.00033	0.00033	0.00033	0.00033	0.00032	0.00032	0.00032	0.00029
Yearly Maximums	0.08139	0.08285	0.08425	0.08616	0.08809	0.08989	0.09164	0.09258	0.09136											
Maximum Metric Tons per Day																				
Maximum Metric Tons per Hour [a]																				
Maximum Metric Tons per Month																				
Month with Maximum																				
Maximum Metric Tons per Year																				
Maximum Average Metric Tons per Hour [b]																				
Year with Maximum																				

Notes:
[a] The hours per day are per 'Manpower Schedule Huntington Be
[b] The hours per year are assumed to allow operation 24 hours per

Attachment DR104-6
Supporting Documentation for Analysis of PM Impacts from Construction

Huntington Beach Energy Project
Attachment DR104-6 Table 1
Construction Source Parameters for AERMOD Input
April2014

Area Poly Sources

Source ID	Base Elevation (m)	Release Height (m)	Number of Vertices	Vertical Dimension (m)	Easting (X1) (m)	Northing (Y1) (m)	Easting (X2) (m)	Northing (Y2) (m)	Easting (X3) (m)	Northing (Y3) (m)	Easting (X4) (m)	Northing (Y4) (m)	Easting (X5) (m)	Northing (Y5) (m)	Easting (X6) (m)	Northing (Y6) (m)	Easting (X7) (m)	Northing (Y7) (m)	Easting (X8) (m)	Northing (Y8) (m)	Easting (X9) (m)	Northing (Y9) (m)
FUGE	3.66	0.00	9	1.00	409452	3723309	409563	3723310	409565	3723115	409537	3723136	409449	3723089	409315	3723180	409358	3723245	409372	3723242	409453	3723187

Area Sources

Source ID	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Release Height (m)	Easterly Length (m)	Northerly Length (m)	Angle from North	Vertical Dimension (m)
FUGW	409066	3723183	3.66	0.00	165	215	35.0	1.00

Point Sources [a]

Source ID	Stack Release Type (Beta)	Base Elevation (m)	Stack Height (m)	Temperature (K)	Exit Velocity (m/s)	Stack Diameter (m)
E(1-70)	Horizontal	3.66	4.60	533	18.0	0.127
W(1-72)	Horizontal	3.66	4.60	533	18.0	0.127

[a] A complete list of exhaust point source locations and parameters can be found in Attachment DR104-6 Table 2.

Huntington Beach Energy Project
Attachment DR104-6 Table 2
Detailed Exhaust Stack Parameters
April2014

Source ID	Stack Release Type (Beta)	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Stack Height (m)	Temperature (K)	Exit Velocity (m/s)	Stack Diameter (m)
E01	Horizontal	409329	3723184	3.66	4.60	533	18.0	0.127
E02	Horizontal	409345	3723173	3.66	4.60	533	18.0	0.127
E03	Horizontal	409362	3723161	3.66	4.60	533	18.0	0.127
E04	Horizontal	409378	3723150	3.66	4.60	533	18.0	0.127
E05	Horizontal	409341	3723203	3.66	4.60	533	18.0	0.127
E06	Horizontal	409358	3723191	3.66	4.60	533	18.0	0.127
E07	Horizontal	409374	3723180	3.66	4.60	533	18.0	0.127
E08	Horizontal	409391	3723168	3.66	4.60	533	18.0	0.127
E09	Horizontal	409354	3723222	3.66	4.60	533	18.0	0.127
E10	Horizontal	409371	3723210	3.66	4.60	533	18.0	0.127
E11	Horizontal	409387	3723199	3.66	4.60	533	18.0	0.127
E12	Horizontal	409404	3723187	3.66	4.60	533	18.0	0.127
E13	Horizontal	409395	3723138	3.66	4.60	533	18.0	0.127
E14	Horizontal	409412	3723126	3.66	4.60	533	18.0	0.127
E15	Horizontal	409428	3723115	3.66	4.60	533	18.0	0.127
E16	Horizontal	409445	3723103	3.66	4.60	533	18.0	0.127
E17	Horizontal	409408	3723157	3.66	4.60	533	18.0	0.127
E18	Horizontal	409424	3723145	3.66	4.60	533	18.0	0.127
E19	Horizontal	409441	3723133	3.66	4.60	533	18.0	0.127
E20	Horizontal	409457	3723122	3.66	4.60	533	18.0	0.127
E21	Horizontal	409420	3723175	3.66	4.60	533	18.0	0.127
E22	Horizontal	409437	3723164	3.66	4.60	533	18.0	0.127
E23	Horizontal	409454	3723152	3.66	4.60	533	18.0	0.127
E24	Horizontal	409470	3723141	3.66	4.60	533	18.0	0.127
E25	Horizontal	409487	3723129	3.66	4.60	533	18.0	0.127
E26	Horizontal	409469	3723294	3.66	4.60	533	18.0	0.127
E27	Horizontal	409469	3723276	3.66	4.60	533	18.0	0.127
E28	Horizontal	409469	3723257	3.66	4.60	533	18.0	0.127
E29	Horizontal	409469	3723239	3.66	4.60	533	18.0	0.127
E30	Horizontal	409469	3723221	3.66	4.60	533	18.0	0.127
E31	Horizontal	409469	3723202	3.66	4.60	533	18.0	0.127
E32	Horizontal	409469	3723184	3.66	4.60	533	18.0	0.127
E33	Horizontal	409469	3723166	3.66	4.60	533	18.0	0.127
E34	Horizontal	409488	3723294	3.66	4.60	533	18.0	0.127
E35	Horizontal	409488	3723276	3.66	4.60	533	18.0	0.127
E36	Horizontal	409488	3723257	3.66	4.60	533	18.0	0.127
E37	Horizontal	409488	3723239	3.66	4.60	533	18.0	0.127
E38	Horizontal	409489	3723221	3.66	4.60	533	18.0	0.127
E39	Horizontal	409489	3723203	3.66	4.60	533	18.0	0.127
E40	Horizontal	409489	3723184	3.66	4.60	533	18.0	0.127
E41	Horizontal	409489	3723166	3.66	4.60	533	18.0	0.127
E42	Horizontal	409489	3723148	3.66	4.60	533	18.0	0.127
E43	Horizontal	409508	3723294	3.66	4.60	533	18.0	0.127
E44	Horizontal	409508	3723276	3.66	4.60	533	18.0	0.127
E45	Horizontal	409508	3723258	3.66	4.60	533	18.0	0.127
E46	Horizontal	409508	3723239	3.66	4.60	533	18.0	0.127
E47	Horizontal	409508	3723221	3.66	4.60	533	18.0	0.127
E48	Horizontal	409508	3723203	3.66	4.60	533	18.0	0.127
E49	Horizontal	409508	3723184	3.66	4.60	533	18.0	0.127
E50	Horizontal	409508	3723166	3.66	4.60	533	18.0	0.127
E51	Horizontal	409508	3723148	3.66	4.60	533	18.0	0.127
E52	Horizontal	409527	3723294	3.66	4.60	533	18.0	0.127
E53	Horizontal	409527	3723276	3.66	4.60	533	18.0	0.127
E54	Horizontal	409527	3723258	3.66	4.60	533	18.0	0.127
E55	Horizontal	409527	3723239	3.66	4.60	533	18.0	0.127
E56	Horizontal	409528	3723221	3.66	4.60	533	18.0	0.127
E57	Horizontal	409528	3723203	3.66	4.60	533	18.0	0.127
E58	Horizontal	409528	3723185	3.66	4.60	533	18.0	0.127
E59	Horizontal	409528	3723166	3.66	4.60	533	18.0	0.127
E60	Horizontal	409528	3723148	3.66	4.60	533	18.0	0.127
E61	Horizontal	409547	3723295	3.66	4.60	533	18.0	0.127

Huntington Beach Energy Project
Attachment DR104-6 Table 2
Detailed Exhaust Stack Parameters
April2014

Source ID	Stack Release Type (Beta)	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Stack Height (m)	Temperature (K)	Exit Velocity (m/s)	Stack Diameter (m)
E62	Horizontal	409547	3723276	3.66	4.60	533	18.0	0.127
E63	Horizontal	409547	3723258	3.66	4.60	533	18.0	0.127
E64	Horizontal	409547	3723240	3.66	4.60	533	18.0	0.127
E65	Horizontal	409547	3723221	3.66	4.60	533	18.0	0.127
E66	Horizontal	409547	3723203	3.66	4.60	533	18.0	0.127
E67	Horizontal	409547	3723185	3.66	4.60	533	18.0	0.127
E68	Horizontal	409547	3723166	3.66	4.60	533	18.0	0.127
E69	Horizontal	409547	3723148	3.66	4.60	533	18.0	0.127
E70	Horizontal	409509	3723130	3.66	4.60	533	18.0	0.127
W01	Horizontal	409086	3723188	3.66	4.60	533	18.0	0.127
W02	Horizontal	409103	3723177	3.66	4.60	533	18.0	0.127
W03	Horizontal	409120	3723165	3.66	4.60	533	18.0	0.127
W04	Horizontal	409136	3723153	3.66	4.60	533	18.0	0.127
W05	Horizontal	409153	3723142	3.66	4.60	533	18.0	0.127
W06	Horizontal	409169	3723130	3.66	4.60	533	18.0	0.127
W07	Horizontal	409186	3723119	3.66	4.60	533	18.0	0.127
W08	Horizontal	409203	3723107	3.66	4.60	533	18.0	0.127
W09	Horizontal	409099	3723207	3.66	4.60	533	18.0	0.127
W10	Horizontal	409116	3723195	3.66	4.60	533	18.0	0.127
W11	Horizontal	409132	3723184	3.66	4.60	533	18.0	0.127
W12	Horizontal	409149	3723172	3.66	4.60	533	18.0	0.127
W13	Horizontal	409165	3723160	3.66	4.60	533	18.0	0.127
W14	Horizontal	409182	3723149	3.66	4.60	533	18.0	0.127
W15	Horizontal	409199	3723137	3.66	4.60	533	18.0	0.127
W16	Horizontal	409215	3723126	3.66	4.60	533	18.0	0.127
W17	Horizontal	409112	3723226	3.66	4.60	533	18.0	0.127
W18	Horizontal	409128	3723214	3.66	4.60	533	18.0	0.127
W19	Horizontal	409145	3723202	3.66	4.60	533	18.0	0.127
W20	Horizontal	409162	3723191	3.66	4.60	533	18.0	0.127
W21	Horizontal	409178	3723179	3.66	4.60	533	18.0	0.127
W22	Horizontal	409195	3723168	3.66	4.60	533	18.0	0.127
W23	Horizontal	409211	3723156	3.66	4.60	533	18.0	0.127
W24	Horizontal	409228	3723144	3.66	4.60	533	18.0	0.127
W25	Horizontal	409124	3723244	3.66	4.60	533	18.0	0.127
W26	Horizontal	409141	3723233	3.66	4.60	533	18.0	0.127
W27	Horizontal	409158	3723221	3.66	4.60	533	18.0	0.127
W28	Horizontal	409174	3723209	3.66	4.60	533	18.0	0.127
W29	Horizontal	409191	3723198	3.66	4.60	533	18.0	0.127
W30	Horizontal	409207	3723186	3.66	4.60	533	18.0	0.127
W31	Horizontal	409224	3723175	3.66	4.60	533	18.0	0.127
W32	Horizontal	409241	3723163	3.66	4.60	533	18.0	0.127
W33	Horizontal	409137	3723263	3.66	4.60	533	18.0	0.127
W34	Horizontal	409154	3723251	3.66	4.60	533	18.0	0.127
W35	Horizontal	409170	3723240	3.66	4.60	533	18.0	0.127
W36	Horizontal	409187	3723228	3.66	4.60	533	18.0	0.127
W37	Horizontal	409204	3723217	3.66	4.60	533	18.0	0.127
W38	Horizontal	409220	3723205	3.66	4.60	533	18.0	0.127
W39	Horizontal	409237	3723193	3.66	4.60	533	18.0	0.127
W40	Horizontal	409253	3723182	3.66	4.60	533	18.0	0.127
W41	Horizontal	409150	3723282	3.66	4.60	533	18.0	0.127
W42	Horizontal	409166	3723270	3.66	4.60	533	18.0	0.127
W43	Horizontal	409183	3723258	3.66	4.60	533	18.0	0.127
W44	Horizontal	409200	3723247	3.66	4.60	533	18.0	0.127
W45	Horizontal	409216	3723235	3.66	4.60	533	18.0	0.127
W46	Horizontal	409233	3723224	3.66	4.60	533	18.0	0.127
W47	Horizontal	409249	3723212	3.66	4.60	533	18.0	0.127
W48	Horizontal	409266	3723200	3.66	4.60	533	18.0	0.127
W49	Horizontal	409163	3723300	3.66	4.60	533	18.0	0.127
W50	Horizontal	409179	3723289	3.66	4.60	533	18.0	0.127
W51	Horizontal	409196	3723277	3.66	4.60	533	18.0	0.127

Huntington Beach Energy Project
Attachment DR104-6 Table 2
Detailed Exhaust Stack Parameters
April2014

Source ID	Stack Release Type (Beta)	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Stack Height (m)	Temperature (K)	Exit Velocity (m/s)	Stack Diameter (m)
W52	Horizontal	409212	3723266	3.66	4.60	533	18.0	0.127
W53	Horizontal	409229	3723254	3.66	4.60	533	18.0	0.127
W54	Horizontal	409246	3723242	3.66	4.60	533	18.0	0.127
W55	Horizontal	409262	3723231	3.66	4.60	533	18.0	0.127
W56	Horizontal	409279	3723219	3.66	4.60	533	18.0	0.127
W57	Horizontal	409175	3723319	3.66	4.60	533	18.0	0.127
W58	Horizontal	409192	3723307	3.66	4.60	533	18.0	0.127
W59	Horizontal	409208	3723296	3.66	4.60	533	18.0	0.127
W60	Horizontal	409225	3723284	3.66	4.60	533	18.0	0.127
W61	Horizontal	409242	3723273	3.66	4.60	533	18.0	0.127
W62	Horizontal	409258	3723261	3.66	4.60	533	18.0	0.127
W63	Horizontal	409275	3723249	3.66	4.60	533	18.0	0.127
W64	Horizontal	409291	3723238	3.66	4.60	533	18.0	0.127
W65	Horizontal	409188	3723338	3.66	4.60	533	18.0	0.127
W66	Horizontal	409205	3723326	3.66	4.60	533	18.0	0.127
W67	Horizontal	409221	3723315	3.66	4.60	533	18.0	0.127
W68	Horizontal	409238	3723303	3.66	4.60	533	18.0	0.127
W69	Horizontal	409254	3723291	3.66	4.60	533	18.0	0.127
W70	Horizontal	409271	3723280	3.66	4.60	533	18.0	0.127
W71	Horizontal	409288	3723268	3.66	4.60	533	18.0	0.127
W72	Horizontal	409304	3723257	3.66	4.60	533	18.0	0.127

Huntington Beach Energy Project
Attachment DR104-6 Table 3
Construction Modeling Parameters - Emission Rates
April 2014

Emission Rates for 24-hour Modeling [a]

	24-hour PM_{10}		24-hour $PM_{2.5}$	
Source ID	(g/s)	(lb/hr)	(g/s)	(lb/hr)
FUGE	0.013	0.10	0.0013	0.010
FUGW	0.031	0.25	0.0088	0.070
E(1-70)	0.0045	0.035	0.0044	0.035
W(1-72)	0.018	0.14	0.018	0.14
Maximum Month	37		37	

Emission Rates for Annual Modeling [a]

	Annual PM_{10}		Annual $PM_{2.5}$	
Source ID	(g/s)	(lb/hr)	(g/s)	(lb/hr)
FUGE	0.007	0.06	0.0029	0.023
FUGW	0.016	0.12	-	-
E(1-70)	0.0025	0.020	0.014	0.11
W(1-72)	0.009	0.068	-	-
Maximum Months	36-47		9-20	

[a] Emission rates for exhaust point sources (E and W source groups) are presented as the sum total for all sources in the respective group.

[b] Construction emissions were obtained from Table 5.1A.58R from Appendix 5.1AR, which is included with this submission as Attachment DR104-5R2.

Huntington Beach Energy Project
Attachment DR104-6 Table 4
Construction Modeling Results
April 2014

		PM_{10} ($\mu g/m^3$)		$PM_{2.5}$ ($\mu g/m^3$)	
Source	Year	24-hour	Annual	24-hour	Annual
ALL	2008	11.7	2.31	3.80	1.31
FUG		11.0	2.12	3.12	0.75
EXH		1.05	0.21	1.05	0.58
EAST		6.95	2.00	0.94	1.31
WEST		11.6	1.96	3.78	-
ALL	2009	12.5	2.23	4.04	1.28
FUG		11.7	2.06	3.27	0.74
EXH		1.21	0.21	1.21	0.56
EAST		6.74	1.98	0.89	1.28
WEST		12.1	1.90	3.94	-
ALL	2010	12.5	2.23	4.07	1.27
FUG		11.8	2.04	3.35	0.73
EXH		1.26	0.21	1.26	0.56
EAST		6.69	1.95	0.93	1.27
WEST		12.5	1.97	4.06	-
ALL	2011	13.9	2.23	4.58	1.28
FUG		13.1	2.04	3.71	0.73
EXH		1.20	0.21	1.20	0.56
EAST		6.51	1.96	0.90	1.28
WEST		13.9	1.91	4.56	-
ALL	2012	14.6	2.31	4.71	1.32
FUG		13.8	2.13	3.89	0.76
EXH		1.15	0.21	1.15	0.58
EAST		7.12	2.04	0.92	1.32
WEST		14.4	1.92	4.66	-

Huntington Beach Energy Project
Attachment DR104-6 Table 5
Effects of Street Sweeping Roadways During Construction
April 2014

Modeling Scenario	Pollutant	Emissions Reduction Needed (lb/day) [a]	Daily Vehicle Volume [b]	Fugitive Dust Emission Factor (g/mile) [c]	Reduction from Street Sweeping Once per Month [d]	Reduction from Street Sweeping Every 14 Days [d]	Daily Miles for Sweeping Once per Month [e]	Daily Miles for Sweeping Every 14 Days [e]
HBEP Construction	PM_{10}	8.26	41,442	0.300	9%	26%	3.34	1.16
	$PM_{2.5}$	0.79	41,442	0.075	9%	26%	1.28	0.44
HBEP Block 1 Operation, HBEP Block 2 Construction	PM_{10}	1.61	41,442	0.300	9%	26%	0.65	0.23
HBEP Operation, Demolition of Units 1 and 2	PM_{10}	5.26	41,442	0.300	9%	26%	2.13	0.74
HBEP Construction, Demolition of Units 3 and 4	PM_{10}	8.60	41,442	0.300	9%	26%	3.48	1.21
	$PM_{2.5}$	0.95	41,442	0.075	9%	26%	1.54	0.53

Notes:

[a] Emissions Reduction Needed for PM_{10} was based on the estimated maximum daily emission rate resulting in a 24-hour modeled impact that, when combined with a background concentration of 45 µg/m³, would be less than the CAAQS and NAAQS. Emissions Reduction Needed for $PM_{2.5}$ was based on the estimated annual emission rate resulting in an annual modeled impact that, when combined with a background concentration of 11.0 µg/m³, would be less than the CAAQS.

[b] Daily Vehicle Volume was obtained from Table 5.12-4 of the HBEP AFC and includes the additional daily vehicle traffic resulting from HBEP construction activities, as provided in Table 5.12-7 of the HBEP AFC. Note that only Pacific Coast Highway volumes were considered since this is the roadway that would be most affected by the HBEP construction activities.

Street Name	Annual Average Daily Volume	Annual Average Daily Construction Volume
Newland Street	12,000	734
Pacific Coast Highway	41,000	442
Magnolia Street	22,000	220
Brookhurst Street	36,000	257
Beach Boulevard	29,000	294
Hamilton Avenue	17,000	220
Atlanta Avenue	18,000	147
Adams Avenue	34,000	74

[c] Fugitive Dust Emission Factors were calculated using CalEEMod methodology for paved roads, as described below.

[d] Control efficiency was taken from Table XI-C of the SCAQMD CEQA Handbook for Street Sweeping Local, Arterial, and Collector Streets.

[e] Daily Miles for Sweeping were calculated using the following equation:

Daily Miles for Sweeping (miles/day) = Emissions Reduction Needed (lb/day) x 453.6 (g/lb) / [Fugitive Dust Emission Factor (g/mile) x Reduction from Street Sweeping x Daily Vehicle Volume

Derivation of Paved Road Emission Factors

Vehicles on Paved Roads

Parameter	PM_{10}	$PM_{2.5}$
Average Weight [a]	2.4	2.4
k [b]	1.0	0.25
sL [a]	0.1	0.1
Emission Factor (g/mile) [c]	0.300	0.075

Notes:

[a] Average Weight and sL taken as the default value from CalEEMod.

[b] k taken from Table 13.2.1-1 of Section 13.2.1 of AP-42.

[c] Emission factor calculated using Equation 1 from Section 13.2.1 of AP-42:

Emission Factor (g/mile) = k (g/mile) x $[sL\ (g/m^2)]^{0.91}$ x $[\text{Average Weight (tons)}]^{1.02}$

Attachment DR104-7
Supporting Documentation for Analysis of PM Impacts from Block 1 Operation with Construction of Block 2

Huntington Beach Energy Project
Attachment DR104-7 Table 1
Block 1 Operation and Block 2 Construction Source Parameters for AERMOD Input
April 2014

Point Sources

Pollutant	Source ID	Stack Release Type (Beta)	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Stack Height (m)	Temperature (K)	Exit Velocity (m/s)	Stack Diameter (m)
24-hour PM_{10}, 24-hour $PM_{2.5}$	Stack 4	Default	409522	3723157	3.66	36.6	455	21.8	5.49
	Stack 5	Default	409522	3723194	3.66	36.6	455	21.8	5.49
	Stack 6	Default	409522	3723230	3.66	36.6	455	21.8	5.49
Annual PM_{10}, Annual $PM_{2.5}$	Stack 4	Default	409522	3723157	3.66	36.6	460	16.7	5.49
	Stack 5	Default	409522	3723194	3.66	36.6	460	16.7	5.49
	Stack 6	Default	409522	3723230	3.66	36.6	460	16.7	5.49
All	W01	Horizontal	409086	3723188	3.66	4.60	533	18.0	0.127
All	W02	Horizontal	409103	3723177	3.66	4.60	533	18.0	0.127
All	W03	Horizontal	409120	3723165	3.66	4.60	533	18.0	0.127
All	W04	Horizontal	409136	3723153	3.66	4.60	533	18.0	0.127
All	W05	Horizontal	409153	3723142	3.66	4.60	533	18.0	0.127
All	W06	Horizontal	409169	3723130	3.66	4.60	533	18.0	0.127
All	W07	Horizontal	409186	3723119	3.66	4.60	533	18.0	0.127
All	W08	Horizontal	409203	3723107	3.66	4.60	533	18.0	0.127
All	W09	Horizontal	409099	3723207	3.66	4.60	533	18.0	0.127
All	W10	Horizontal	409116	3723195	3.66	4.60	533	18.0	0.127
All	W11	Horizontal	409132	3723184	3.66	4.60	533	18.0	0.127
All	W12	Horizontal	409149	3723172	3.66	4.60	533	18.0	0.127
All	W13	Horizontal	409165	3723160	3.66	4.60	533	18.0	0.127
All	W14	Horizontal	409182	3723149	3.66	4.60	533	18.0	0.127
All	W15	Horizontal	409199	3723137	3.66	4.60	533	18.0	0.127
All	W16	Horizontal	409215	3723126	3.66	4.60	533	18.0	0.127
All	W17	Horizontal	409112	3723226	3.66	4.60	533	18.0	0.127
All	W18	Horizontal	409128	3723214	3.66	4.60	533	18.0	0.127
All	W19	Horizontal	409145	3723202	3.66	4.60	533	18.0	0.127
All	W20	Horizontal	409162	3723191	3.66	4.60	533	18.0	0.127
All	W21	Horizontal	409178	3723179	3.66	4.60	533	18.0	0.127
All	W22	Horizontal	409195	3723168	3.66	4.60	533	18.0	0.127
All	W23	Horizontal	409211	3723156	3.66	4.60	533	18.0	0.127
All	W24	Horizontal	409228	3723144	3.66	4.60	533	18.0	0.127
All	W25	Horizontal	409124	3723244	3.66	4.60	533	18.0	0.127
All	W26	Horizontal	409141	3723233	3.66	4.60	533	18.0	0.127
All	W27	Horizontal	409158	3723221	3.66	4.60	533	18.0	0.127
All	W28	Horizontal	409174	3723209	3.66	4.60	533	18.0	0.127
All	W29	Horizontal	409191	3723198	3.66	4.60	533	18.0	0.127
All	W30	Horizontal	409207	3723186	3.66	4.60	533	18.0	0.127
All	W31	Horizontal	409224	3723175	3.66	4.60	533	18.0	0.127
All	W32	Horizontal	409241	3723163	3.66	4.60	533	18.0	0.127
All	W33	Horizontal	409137	3723263	3.66	4.60	533	18.0	0.127
All	W34	Horizontal	409154	3723251	3.66	4.60	533	18.0	0.127
All	W35	Horizontal	409170	3723240	3.66	4.60	533	18.0	0.127
All	W36	Horizontal	409187	3723228	3.66	4.60	533	18.0	0.127
All	W37	Horizontal	409204	3723217	3.66	4.60	533	18.0	0.127
All	W38	Horizontal	409220	3723205	3.66	4.60	533	18.0	0.127
All	W39	Horizontal	409237	3723193	3.66	4.60	533	18.0	0.127
All	W40	Horizontal	409253	3723182	3.66	4.60	533	18.0	0.127
All	W41	Horizontal	409150	3723282	3.66	4.60	533	18.0	0.127
All	W42	Horizontal	409166	3723270	3.66	4.60	533	18.0	0.127
All	W43	Horizontal	409183	3723258	3.66	4.60	533	18.0	0.127
All	W44	Horizontal	409200	3723247	3.66	4.60	533	18.0	0.127
All	W45	Horizontal	409216	3723235	3.66	4.60	533	18.0	0.127
All	W46	Horizontal	409233	3723224	3.66	4.60	533	18.0	0.127
All	W47	Horizontal	409249	3723212	3.66	4.60	533	18.0	0.127
All	W48	Horizontal	409266	3723200	3.66	4.60	533	18.0	0.127
All	W49	Horizontal	409163	3723300	3.66	4.60	533	18.0	0.127
All	W50	Horizontal	409179	3723289	3.66	4.60	533	18.0	0.127
All	W51	Horizontal	409196	3723277	3.66	4.60	533	18.0	0.127
All	W52	Horizontal	409212	3723266	3.66	4.60	533	18.0	0.127
All	W53	Horizontal	409229	3723254	3.66	4.60	533	18.0	0.127
All	W54	Horizontal	409246	3723242	3.66	4.60	533	18.0	0.127
All	W55	Horizontal	409262	3723231	3.66	4.60	533	18.0	0.127
All	W56	Horizontal	409279	3723219	3.66	4.60	533	18.0	0.127
All	W57	Horizontal	409175	3723319	3.66	4.60	533	18.0	0.127
All	W58	Horizontal	409192	3723307	3.66	4.60	533	18.0	0.127
All	W59	Horizontal	409208	3723296	3.66	4.60	533	18.0	0.127

Huntington Beach Energy Project
Attachment DR104-7 Table 1
Block 1 Operation and Block 2 Construction Source Parameters for AERMOD Input
April 2014

Point Sources

Pollutant	Source ID	Stack Release Type (Beta)	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Stack Height (m)	Temperature (K)	Exit Velocity (m/s)	Stack Diameter (m)
All	W60	Horizontal	409225	3723284	3.66	4.60	533	18.0	0.127
All	W61	Horizontal	409242	3723273	3.66	4.60	533	18.0	0.127
All	W62	Horizontal	409258	3723261	3.66	4.60	533	18.0	0.127
All	W63	Horizontal	409275	3723249	3.66	4.60	533	18.0	0.127
All	W64	Horizontal	409291	3723238	3.66	4.60	533	18.0	0.127
All	W65	Horizontal	409188	3723338	3.66	4.60	533	18.0	0.127
All	W66	Horizontal	409205	3723326	3.66	4.60	533	18.0	0.127
All	W67	Horizontal	409221	3723315	3.66	4.60	533	18.0	0.127
All	W68	Horizontal	409238	3723303	3.66	4.60	533	18.0	0.127
All	W69	Horizontal	409254	3723291	3.66	4.60	533	18.0	0.127
All	W70	Horizontal	409271	3723280	3.66	4.60	533	18.0	0.127
All	W71	Horizontal	409288	3723268	3.66	4.60	533	18.0	0.127
All	W72	Horizontal	409304	3723257	3.66	4.60	533	18.0	0.127

Area Sources

Source ID	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Release Height (m)	Easterly Length (m)	Northerly Length (m)	Angle from North	Vertical Dimension (m)
FUGW	409066	3723183	3.66	0.00	165	215	35.0	1.00

Huntington Beach Energy Project
Attachment DR104-7 Table 2
Block 1 Operation and Block 2 Construction Modeling Parameters - Emission Rates
April 2014

Emission Rates for 24-hour Modeling [a, b]

	24-hour PM_{10}		24-hour $PM_{2.5}$	
Source ID	(g/s)	(lb/hr)	(g/s)	(lb/hr)
Stack 4	1.20	9.50	1.20	9.50
Stack 5	1.20	9.50	1.20	9.50
Stack 6	1.20	9.50	1.20	9.50
W(1-72)	0.008	0.066	0.010	0.076
FUGW	0.016	0.130	0.0013	0.010
Maximum Month	46		48	

Emission Rates for Annual Modeling [a, b]

	Annual PM_{10}		Annual $PM_{2.5}$	
Source ID	(g/s)	(lb/hr)	(g/s)	(lb/hr)
Stack 4	0.48	3.78	0.48	3.78
Stack 5	0.48	3.78	0.48	3.78
Stack 6	0.48	3.78	0.48	3.78
W(1-72)	0.005	0.041	0.005	0.041
FUGW	0.010	0.078	0.001	0.0078
Maximum Months	46 - 57		46 - 57	

[a] Emission rates for construction exhaust point sources, W(1-72) source group, are presented as the sum total for all sources in the group.
[b] Block 1 operation emissions were obtained from AFC Table 5.1-24, submitted June 2012. Block 2 construction emissions were obtained from Table 5.1A.46R from Appendix 5.1AR, which is included with this submission as Attachment DR104-5R2.

Huntington Beach Energy Project
Attachment DR104-7 Table 3
Block 1 Operation and Block 2 Construction Building Parameters for AERMOD Input
April 2014

Building Name	Number of Tiers	Tier Number	Base Elevation (m)	Tier Height (m)	Number of Corners	Corner 1 East (X) (m)	Corner 1 North (Y) (m)	Corner 2 East (X) (m)	Corner 2 North (Y) (m)
ACC1	1	1	3.66	31.7	4	409474	3723311	409536	3723311
STG1	1	1	3.66	12.2	4	409538	3723247	409556	3723247
CTG4	1	1	3.66	28.0	4	409500	3723162	409517	3723162
CTG5	1	1	3.66	28.0	4	409500	3723198	409517	3723198
CTG6	1	1	3.66	28.0	4	409499	3723236	409517	3723236
AIRIN6	1	1	3.66	11.6	6	409470	3723211	409470	3723215
AIRIN5	1	1	3.66	11.6	6	409471	3723174	409471	3723178
AIRIN4	1	1	3.66	11.6	6	409471	3723136	409471	3723141
B1	2	1	3.66	23.2	4	409293	3723102	409312	3723128
B1	*	2	*	37.6	4	409301	3723114	409312	3723128
B2	2	1	3.66	23.2	4	409252	3723127	409272	3723153
B2	*	2	*	37.6	4	409261	3723139	409272	3723153

Tank Name	Base Elevation (m)	Center East (X) (m)	Center North (Y) (m)	Tank Height (m)	Tank Diameter (m)
Stack12	3.66	409274	3723095	61.0	6.27

Huntington Beach Energy Project
Attachment DR104-7 Table 3
Block 1 Operation and Block 2 Construction Building Parameters for AERMOD Input
April 2014

Building Name	Number of Tiers	Tier Number	Base Elevation (m)	Tier Height (m)	Corner 3 East (X) (m)	Corner 3 North (Y) (m)	Corner 4 East (X) (m)	Corner 4 North (Y) (m)	Corner 5 East (X) (m)	Corner 5 North (Y) (m)	Corner 6 East (X) (m)	Corner 6 North (Y) (m)
ACC1	1	1	3.66	31.7	409537	3723274	409474	3723274				
STG1	1	1	3.66	12.2	409556	3723231	409538	3723231				
CTG4	1	1	3.66	28.0	409517	3723149	409500	3723150				
CTG5	1	1	3.66	28.0	409517	3723186	409500	3723186				
CTG6	1	1	3.66	28.0	409517	3723223	409499	3723224				
AIRIN6	1	1	3.66	11.6	409475	3723225	409477	3723225	409482	3723215	409482	3723210
AIRIN5	1	1	3.66	11.6	409476	3723188	409478	3723188	409483	3723178	409483	3723174
AIRIN4	1	1	3.66	11.6	409476	3723151	409478	3723151	409483	3723140	409483	3723136
B1	2	1	3.66	23.2	409335	3723112	409317	3723086				
B1	*	2	*	37.6	409335	3723112	409326	3723098				
B2	2	1	3.66	23.2	409295	3723137	409277	3723111				
B2	*	2	*	37.6	409295	3723137	409285	3723123				

Tank Name	Base Elevation (m)	Center East (X) (m)	Center North (Y) (m)	Tank Height (m)
Stack12	3.66	409274	3723095	61.0

Huntington Beach Energy Project
Attachment DR104-7 Table 4
Block 1 Operation and Block 2 Construction Modeling Results
April 2014

		PM_{10} ($\mu g/m^3$)		$PM_{2.5}$ ($\mu g/m^3$)	
Source	Year	24-hour	Annual	24-hour	Annual
ALL		6.17	1.25	0.99	0.24
CONSTRUCTION	2008	6.13	1.24	0.84	0.23
OPERATION		0.91	0.16	0.91	0.16
ALL		6.40	1.21	1.16	0.23
CONSTRUCTION	2009	6.38	1.20	0.88	0.22
OPERATION		1.15	0.15	1.15	0.15
ALL		6.61	1.25	1.04	0.23
CONSTRUCTION	2010	6.58	1.25	0.94	0.22
OPERATION		0.90	0.12	0.90	0.12
ALL		7.34	1.21	1.17	0.23
CONSTRUCTION	2011	7.33	1.20	0.99	0.22
OPERATION		1.12	0.15	1.12	0.15
ALL		7.60	1.22	1.41	0.23
CONSTRUCTION	2012	7.59	1.21	0.98	0.22
OPERATION		1.40	0.15	1.40	0.15

Attachment DR104-8
Supporting Documentation for Analysis of PM Impacts from HBEP Operation with Demolition of Units 1 and 2

Huntington Beach Energy Project
Attachment DR104-8 Table 1
Operation of Blocks 1 and 2 and Demolition of Units 1 and 2 Source Parameters for AERMOD Input
April 2014

Point Sources

Pollutant	Source ID	Stack Release Type (Beta)	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Stack Height (m)	Temperature (K)	Exit Velocity (m/s)	Stack Diameter (m)
24-hour PM_{10}, 24-hour $PM_{2.5}$	Stack 1	Default	409185	3723252	3.66	36.6	455	21.8	5.49
	Stack 2	Default	409216	3723231	3.66	36.6	455	21.8	5.49
	Stack 3	Default	409245	3723210	3.66	36.6	455	21.8	5.49
	Stack 4	Default	409522	3723157	3.66	36.6	455	21.8	5.49
	Stack 5	Default	409522	3723194	3.66	36.6	455	21.8	5.49
	Stack 6	Default	409522	3723230	3.66	36.6	455	21.8	5.49
Annual PM_{10}, Annual $PM_{2.5}$	Stack 1	Default	409185	3723252	3.66	36.6	460	16.7	5.49
	Stack 2	Default	409216	3723231	3.66	36.6	460	16.7	5.49
	Stack 3	Default	409245	3723210	3.66	36.6	460	16.7	5.49
	Stack 4	Default	409522	3723157	3.66	36.6	460	16.7	5.49
	Stack 5	Default	409522	3723194	3.66	36.6	460	16.7	5.49
	Stack 6	Default	409522	3723230	3.66	36.6	460	16.7	5.49
All	S01	Horizontal	409219	3723095	3.66	4.60	533	18.0	0.127
All	S02	Horizontal	409236	3723084	3.66	4.60	533	18.0	0.127
All	S03	Horizontal	409252	3723072	3.66	4.60	533	18.0	0.127
All	S04	Horizontal	409269	3723061	3.66	4.60	533	18.0	0.127
All	S05	Horizontal	409286	3723049	3.66	4.60	533	18.0	0.127
All	S06	Horizontal	409302	3723037	3.66	4.60	533	18.0	0.127
All	S07	Horizontal	409232	3723114	3.66	4.60	533	18.0	0.127
All	S08	Horizontal	409248	3723102	3.66	4.60	533	18.0	0.127
All	S09	Horizontal	409265	3723091	3.66	4.60	533	18.0	0.127
All	S10	Horizontal	409282	3723079	3.66	4.60	533	18.0	0.127
All	S11	Horizontal	409298	3723068	3.66	4.60	533	18.0	0.127
All	S12	Horizontal	409315	3723056	3.66	4.60	533	18.0	0.127
All	S13	Horizontal	409245	3723133	3.66	4.60	533	18.0	0.127
All	S14	Horizontal	409261	3723121	3.66	4.60	533	18.0	0.127
All	S15	Horizontal	409278	3723110	3.66	4.60	533	18.0	0.127
All	S16	Horizontal	409294	3723098	3.66	4.60	533	18.0	0.127
All	S17	Horizontal	409311	3723086	3.66	4.60	533	18.0	0.127
All	S18	Horizontal	409328	3723075	3.66	4.60	533	18.0	0.127
All	S19	Horizontal	409257	3723151	3.66	4.60	533	18.0	0.127
All	S20	Horizontal	409274	3723140	3.66	4.60	533	18.0	0.127
All	S21	Horizontal	409290	3723128	3.66	4.60	533	18.0	0.127
All	S22	Horizontal	409307	3723117	3.66	4.60	533	18.0	0.127
All	S23	Horizontal	409324	3723105	3.66	4.60	533	18.0	0.127
All	S24	Horizontal	409340	3723093	3.66	4.60	533	18.0	0.127
All	S25	Horizontal	409270	3723170	3.66	4.60	533	18.0	0.127
All	S26	Horizontal	409287	3723159	3.66	4.60	533	18.0	0.127
All	S27	Horizontal	409303	3723147	3.66	4.60	533	18.0	0.127
All	S28	Horizontal	409320	3723135	3.66	4.60	533	18.0	0.127
All	S29	Horizontal	409336	3723124	3.66	4.60	533	18.0	0.127
All	S30	Horizontal	409353	3723112	3.66	4.60	533	18.0	0.127
All	S31	Horizontal	409283	3723189	3.66	4.60	533	18.0	0.127
All	S32	Horizontal	409299	3723177	3.66	4.60	533	18.0	0.127
All	S33	Horizontal	409316	3723166	3.66	4.60	533	18.0	0.127
All	S34	Horizontal	409332	3723154	3.66	4.60	533	18.0	0.127
All	S35	Horizontal	409349	3723142	3.66	4.60	533	18.0	0.127
All	S36	Horizontal	409366	3723131	3.66	4.60	533	18.0	0.127
All	S37	Horizontal	409331	3723044	3.66	4.60	533	18.0	0.127
All	S38	Horizontal	409344	3723063	3.66	4.60	533	18.0	0.127
All	S39	Horizontal	409357	3723082	3.66	4.60	533	18.0	0.127
All	S40	Horizontal	409373	3723070	3.66	4.60	533	18.0	0.127
All	S41	Horizontal	409370	3723101	3.66	4.60	533	18.0	0.127
All	S42	Horizontal	409386	3723089	3.66	4.60	533	18.0	0.127
All	S43	Horizontal	409403	3723077	3.66	4.60	533	18.0	0.127
All	S44	Horizontal	409382	3723119	3.66	4.60	533	18.0	0.127
All	S45	Horizontal	409399	3723108	3.66	4.60	533	18.0	0.127
All	S46	Horizontal	409415	3723096	3.66	4.60	533	18.0	0.127

Area Poly Sources

Source ID	Base Elevation (m)	Release Height (m)	Number of Vertices	Vertical Dimension (m)	Easting (X1) (m)	Northing (Y1) (m)	Easting (X2) (m)	Northing (Y2) (m)	Easting (X3) (m)	Northing (Y3) (m)	Easting (X4) (m)	Northing (Y4) (m)
FUGS	3.66	0.00	4.00	1.00	409199	3723086	409281	3723203	409449	3723089	409304	3723012

Huntington Beach Energy Project
Attachment DR104-8 Table 2
Operation of Blocks 1 and 2 and Demolition of Units 1 and 2 Modeling Parameters - Emission Rates
April 2014

Emission Rates for 24-hour Modeling [a, b]

	24-hour PM_{10}		24-hour $PM_{2.5}$	
Source ID	(g/s)	(lb/hr)	(g/s)	(lb/hr)
Stack 1	1.20	9.50	1.20	9.50
Stack 2	1.20	9.50	1.20	9.50
Stack 3	1.20	9.50	1.20	9.50
Stack 4	1.20	9.50	1.20	9.50
Stack 5	1.20	9.50	1.20	9.50
Stack 6	1.20	9.50	1.20	9.50
S(1-46)	0.012	0.099	0.012	0.099
FUGS	0.028	0.22	0.0058	0.046
Maximum Month	80		80	

Emission Rates for Annual Modeling [a, b]

	Annual PM_{10}		Annual $PM_{2.5}$	
Source ID	(g/s)	(lb/hr)	(g/s)	(lb/hr)
Stack 1	0.48	3.78	0.48	3.78
Stack 2	0.48	3.78	0.48	3.78
Stack 3	0.48	3.78	0.48	3.78
Stack 4	0.48	3.78	0.48	3.78
Stack 5	0.48	3.78	0.48	3.78
Stack 6	0.48	3.78	0.48	3.78
S(1-46)	0.0073	0.058	0.0073	0.058
FUGS	0.017	0.14	0.0027	0.022
Maximum Months	77-88		77-88	

[a] Emission rates for construction exhaust point sources, S(1-46) source group, are presented as the sum total for all sources in the group.

[b] Block 1 and 2 operation emissions were obtained from AFC Table 5.1-24, submitted in June 2012, and Units 1 and 2 demolition emissions were obtained from Table 5.1A.46R from Appendix 5.1AR, which is included with this submission as Attachment DR104-5R2.

Huntington Beach Energy Project
Attachment DR104-8 Table 3
Operation of Blocks 1 and 2 and Demolition of Units 1 and 2 Building Parameters for AERMOD Input
April 2014

Building Name	Number of Tiers	Tier Number	Base Elevation (m)	Tier Height (m)	Number of Corners	Corner 1 East (X) (m)	Corner 1 North (Y) (m)	Corner 2 East (X) (m)	Corner 2 North (Y) (m)	Corner 3 East (X) (m)	Corner 3 North (Y) (m)
ACC1	1	1	3.66	31.7	4	409474	3723311	409536	3723311	409537	3723274
STG1	1	1	3.66	12.2	4	409538	3723247	409556	3723247	409556	3723231
CTG4	1	1	3.66	28.0	4	409500	3723162	409517	3723162	409517	3723149
CTG5	1	1	3.66	28.0	4	409500	3723198	409517	3723198	409517	3723186
CTG6	1	1	3.66	28.0	4	409499	3723236	409517	3723236	409517	3723223
AIRIN6	1	1	3.66	11.6	6	409470	3723211	409470	3723215	409475	3723225
AIRIN5	1	1	3.66	11.6	6	409471	3723174	409471	3723178	409476	3723188
AIRIN4	1	1	3.66	11.6	6	409471	3723136	409471	3723141	409476	3723151
CTG1	1	1	3.66	28.0	4	409166	3723235	409176	3723252	409188	3723244
CTG2	1	1	3.66	28.0	4	409197	3723216	409207	3723232	409219	3723224
CTG3	1	1	3.66	28.0	4	409226	3723194	409236	3723210	409247	3723203
AIRIN1	1	1	3.66	11.6	6	409172	3723196	409169	3723199	409163	3723209
AIRIN2	1	1	3.66	11.6	6	409202	3723175	409199	3723178	409194	3723188
AIRIN3	1	1	3.66	11.6	6	409232	3723154	409229	3723157	409224	3723167
STG2	1	1	3.66	12.2	4	409165	3723276	409180	3723266	409170	3723252
ACC2	1	1	3.66	31.7	4	409212	3723305	409263	3723269	409241	3723237
Admin	2	1	3.66	3.35	16	409290	3723286	409355	3723240	409351	3723235
Admin	*	2	*	5.18	14	409287	3723281	409348	3723237	409338	3723223

Huntington Beach Energy Project
Attachment DR104-8 Table 3
Operation of Blocks 1 and 2 and Demolition of Units 1 and 2 Building Parameters for AERMOD Input
April 2014

Building Name	Number of Tiers	Tier Number	Base Elevation (m)	Tier Height (m)	Number of Corners	Corner 1 East (X) (m)	Corner 4 East (X) (m)	Corner 4 North (Y) (m)	Corner 5 East (X) (m)	Corner 5 North (Y) (m)	Corner 6 East (X) (m)	Corner 6 North (Y) (m)	Corner 7 East (X) (m)	Corner 7 North (Y) (m)	Corner 8 East (X) (m)	Corner 8 North (Y) (m)
ACC1	1	1	3.66	31.7	4	409474	409474	3723274								
STG1	1	1	3.66	12.2	4	409538	409538	3723231								
CTG4	1	1	3.66	28.0	4	409500	409500	3723150								
CTG5	1	1	3.66	28.0	4	409500	409500	3723186								
CTG6	1	1	3.66	28.0	4	409499	409499	3723224								
AIRIN6	1	1	3.66	11.6	6	409470	409477	3723225	409482	3723215	409482	3723210				
AIRIN5	1	1	3.66	11.6	6	409471	409478	3723188	409483	3723178	409483	3723174				
AIRIN4	1	1	3.66	11.6	6	409471	409478	3723151	409483	3723140	409483	3723136				
CTG1	1	1	3.66	28.0	4	409166	409178	3723228								
CTG2	1	1	3.66	28.0	4	409197	409209	3723208								
CTG3	1	1	3.66	28.0	4	409226	409237	3723187								
AIRIN1	1	1	3.66	11.6	6	409172	409164	3723211	409176	3723208	409179	3723206				
AIRIN2	1	1	3.66	11.6	6	409202	409195	3723190	409206	3723187	409209	3723185				
AIRIN3	1	1	3.66	11.6	6	409232	409225	3723169	409236	3723166	409239	3723164				
STG2	1	1	3.66	12.2	4	409165	409156	3723262								
ACC2	1	1	3.66	31.7	4	409212	409189	3723274								
Admin	2	1	3.66	3.35	16	409290	409348	3723237	409338	3723223	409343	3723219	409333	3723205	409321	3723213
Admin	*	2	*	5.18	14	409287	409343	3723219	409333	3723205	409321	3723213	409323	3723216	409296	3723237

Huntington Beach Energy Project
Attachment DR104-8 Table 3
Operation of Blocks 1 and 2 and Demolition of Units 1 and 2 Building Parameters for AERMOD Input
April 2014

Building Name	Number of Tiers	Tier Number	Base Elevation (m)	Tier Height (m)	Number of Corners	Corner 1 East (X) (m)	Corner 9 East (X) (m)	Corner 9 North (Y) (m)	Corner 10 East (X) (m)	Corner 10 North (Y) (m)	Corner 11 East (X) (m)	Corner 11 North (Y) (m)	Corner 12 East (X) (m)	Corner 12 North (Y) (m)	Corner 13 East (X) (m)	Corner 13 North (Y) (m)
ACC1	1	1	3.66	31.7	4	409474										
STG1	1	1	3.66	12.2	4	409538										
CTG4	1	1	3.66	28.0	4	409500										
CTG5	1	1	3.66	28.0	4	409500										
CTG6	1	1	3.66	28.0	4	409499										
AIRIN6	1	1	3.66	11.6	6	409470										
AIRIN5	1	1	3.66	11.6	6	409471										
AIRIN4	1	1	3.66	11.6	6	409471										
CTG1	1	1	3.66	28.0	4	409166										
CTG2	1	1	3.66	28.0	4	409197										
CTG3	1	1	3.66	28.0	4	409226										
AIRIN1	1	1	3.66	11.6	6	409172										
AIRIN2	1	1	3.66	11.6	6	409202										
AIRIN3	1	1	3.66	11.6	6	409232										
STG2	1	1	3.66	12.2	4	409165										
ACC2	1	1	3.66	31.7	4	409212										
Admin	2	1	3.66	3.35	16	409290	409323	3723216	409296	3723237	409296	3723237	409292	3723241	409293	3723243
Admin	*	2	*	5.18	14	409287	409296	3723237	409292	3723241	409293	3723243	409279	3723252	409292	3723270

Huntington Beach Energy Project
Attachment DR104-8 Table 3
Operation of Blocks 1 and 2 and Demolition of Units 1 and 2 Building Parameters for AERMOD Input
April 2014

Building Name	Number of Tiers	Tier Number	Base Elevation (m)	Tier Height (m)	Number of Corners	Corner 1 East (X) (m)	Corner 14 East (X) (m)	Corner 14 North (Y) (m)	Corner 15 East (X) (m)	Corner 15 North (Y) (m)	Corner 16 East (X) (m)	Corner 16 North (Y) (m)
ACC1	1	1	3.66	31.7	4	409474						
STG1	1	1	3.66	12.2	4	409538						
CTG4	1	1	3.66	28.0	4	409500						
CTG5	1	1	3.66	28.0	4	409500						
CTG6	1	1	3.66	28.0	4	409499						
AIRIN6	1	1	3.66	11.6	6	409470						
AIRIN5	1	1	3.66	11.6	6	409471						
AIRIN4	1	1	3.66	11.6	6	409471						
CTG1	1	1	3.66	28.0	4	409166						
CTG2	1	1	3.66	28.0	4	409197						
CTG3	1	1	3.66	28.0	4	409226						
AIRIN1	1	1	3.66	11.6	6	409172						
AIRIN2	1	1	3.66	11.6	6	409202						
AIRIN3	1	1	3.66	11.6	6	409232						
STG2	1	1	3.66	12.2	4	409165						
ACC2	1	1	3.66	31.7	4	409212						
Admin	2	1	3.66	3.35	16	409290	409279	3723252	409292	3723270	409283	3723276
Admin	*	2	*	5.18	14	409287	409283	3723276				

Huntington Beach Energy Project
Attachment DR104-8 Table 4
Operation of Blocks 1 and 2 and Demolition of Units 1 and 2 Modeling Results
April 2014

		PM_{10} ($\mu g/m^3$)		$PM_{2.5}$ ($\mu g/m^3$)	
Source	Year	24-hour	Annual	24-hour	Annual
ALL	2008	15.4	2.54	3.63	0.51
CONSTRUCTION		15.4	2.52	3.57	0.489
OPERATION		3.32	0.27	3.32	0.27
ALL	2009	14.5	2.81	3.44	0.56
CONSTRUCTION		14.4	2.79	3.33	0.54
OPERATION		1.62	0.26	1.62	0.26
ALL	2010	15.4	2.73	3.66	0.54
CONSTRUCTION		15.3	2.71	3.52	0.52
OPERATION		2.82	0.22	2.82	0.22
ALL	2011	16.1	2.79	3.70	0.55
CONSTRUCTION		16.0	2.77	3.59	0.53
OPERATION		3.19	0.25	3.19	0.25
ALL	2012	15.3	2.78	3.67	0.56
CONSTRUCTION		15.2	2.76	3.53	0.54
OPERATION		1.65	0.26	1.65	0.26

Attachment DR104-9
Supporting Documentation for Analysis of PM Impacts from HBEP Construction and Demolition of Units 3 and 4

Huntington Beach Energy Project
Attachment DR104-9 Table 1
HBEP Construction and Demolition of Units 3 and 4 Source Parameters for AERMOD Input
April 2014

Point Sources

Source ID	Stack Release Type (Beta)	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Stack Height (m)	Temperature (K)	Exit Velocity (m/s)	Stack Diameter (m)
E01	Horizontal	409329	3723184	3.66	4.60	533	18.0	0.127
E02	Horizontal	409345	3723173	3.66	4.60	533	18.0	0.127
E03	Horizontal	409362	3723161	3.66	4.60	533	18.0	0.127
E04	Horizontal	409378	3723150	3.66	4.60	533	18.0	0.127
E05	Horizontal	409341	3723203	3.66	4.60	533	18.0	0.127
E06	Horizontal	409358	3723191	3.66	4.60	533	18.0	0.127
E07	Horizontal	409374	3723180	3.66	4.60	533	18.0	0.127
E08	Horizontal	409391	3723168	3.66	4.60	533	18.0	0.127
E09	Horizontal	409354	3723222	3.66	4.60	533	18.0	0.127
E10	Horizontal	409371	3723210	3.66	4.60	533	18.0	0.127
E11	Horizontal	409387	3723199	3.66	4.60	533	18.0	0.127
E12	Horizontal	409404	3723187	3.66	4.60	533	18.0	0.127
E13	Horizontal	409395	3723138	3.66	4.60	533	18.0	0.127
E14	Horizontal	409412	3723126	3.66	4.60	533	18.0	0.127
E15	Horizontal	409428	3723115	3.66	4.60	533	18.0	0.127
E16	Horizontal	409445	3723103	3.66	4.60	533	18.0	0.127
E17	Horizontal	409408	3723157	3.66	4.60	533	18.0	0.127
E18	Horizontal	409424	3723145	3.66	4.60	533	18.0	0.127
E19	Horizontal	409441	3723133	3.66	4.60	533	18.0	0.127
E20	Horizontal	409457	3723122	3.66	4.60	533	18.0	0.127
E21	Horizontal	409420	3723175	3.66	4.60	533	18.0	0.127
E22	Horizontal	409437	3723164	3.66	4.60	533	18.0	0.127
E23	Horizontal	409454	3723152	3.66	4.60	533	18.0	0.127
E24	Horizontal	409470	3723141	3.66	4.60	533	18.0	0.127
E25	Horizontal	409487	3723129	3.66	4.60	533	18.0	0.127
E26	Horizontal	409469	3723294	3.66	4.60	533	18.0	0.127
E27	Horizontal	409469	3723276	3.66	4.60	533	18.0	0.127
E28	Horizontal	409469	3723257	3.66	4.60	533	18.0	0.127
E29	Horizontal	409469	3723239	3.66	4.60	533	18.0	0.127
E30	Horizontal	409469	3723221	3.66	4.60	533	18.0	0.127
E31	Horizontal	409469	3723202	3.66	4.60	533	18.0	0.127
E32	Horizontal	409469	3723184	3.66	4.60	533	18.0	0.127
E33	Horizontal	409469	3723166	3.66	4.60	533	18.0	0.127
E34	Horizontal	409488	3723294	3.66	4.60	533	18.0	0.127
E35	Horizontal	409488	3723276	3.66	4.60	533	18.0	0.127
E36	Horizontal	409488	3723257	3.66	4.60	533	18.0	0.127
E37	Horizontal	409488	3723239	3.66	4.60	533	18.0	0.127
E38	Horizontal	409489	3723221	3.66	4.60	533	18.0	0.127
E39	Horizontal	409489	3723203	3.66	4.60	533	18.0	0.127
E40	Horizontal	409489	3723184	3.66	4.60	533	18.0	0.127
E41	Horizontal	409489	3723166	3.66	4.60	533	18.0	0.127
E42	Horizontal	409489	3723148	3.66	4.60	533	18.0	0.127
E43	Horizontal	409508	3723294	3.66	4.60	533	18.0	0.127
E44	Horizontal	409508	3723276	3.66	4.60	533	18.0	0.127
E45	Horizontal	409508	3723258	3.66	4.60	533	18.0	0.127
E46	Horizontal	409508	3723239	3.66	4.60	533	18.0	0.127
E47	Horizontal	409508	3723221	3.66	4.60	533	18.0	0.127
E48	Horizontal	409508	3723203	3.66	4.60	533	18.0	0.127
E49	Horizontal	409508	3723184	3.66	4.60	533	18.0	0.127
E50	Horizontal	409508	3723166	3.66	4.60	533	18.0	0.127
E51	Horizontal	409508	3723148	3.66	4.60	533	18.0	0.127
E52	Horizontal	409527	3723294	3.66	4.60	533	18.0	0.127
E53	Horizontal	409527	3723276	3.66	4.60	533	18.0	0.127
E54	Horizontal	409527	3723258	3.66	4.60	533	18.0	0.127
E55	Horizontal	409527	3723239	3.66	4.60	533	18.0	0.127
E56	Horizontal	409528	3723221	3.66	4.60	533	18.0	0.127
E57	Horizontal	409528	3723203	3.66	4.60	533	18.0	0.127
E58	Horizontal	409528	3723185	3.66	4.60	533	18.0	0.127
E59	Horizontal	409528	3723166	3.66	4.60	533	18.0	0.127
E60	Horizontal	409528	3723148	3.66	4.60	533	18.0	0.127
E61	Horizontal	409547	3723295	3.66	4.60	533	18.0	0.127
E62	Horizontal	409547	3723276	3.66	4.60	533	18.0	0.127
E63	Horizontal	409547	3723258	3.66	4.60	533	18.0	0.127
E64	Horizontal	409547	3723240	3.66	4.60	533	18.0	0.127
E65	Horizontal	409547	3723221	3.66	4.60	533	18.0	0.127
E66	Horizontal	409547	3723203	3.66	4.60	533	18.0	0.127
E67	Horizontal	409547	3723185	3.66	4.60	533	18.0	0.127
E68	Horizontal	409547	3723166	3.66	4.60	533	18.0	0.127
E69	Horizontal	409547	3723148	3.66	4.60	533	18.0	0.127
E70	Horizontal	409509	3723130	3.66	4.60	533	18.0	0.127
W01	Horizontal	409086	3723188	3.66	4.60	533	18.0	0.127
W02	Horizontal	409103	3723177	3.66	4.60	533	18.0	0.127
W03	Horizontal	409120	3723165	3.66	4.60	533	18.0	0.127
W04	Horizontal	409136	3723153	3.66	4.60	533	18.0	0.127
W05	Horizontal	409153	3723142	3.66	4.60	533	18.0	0.127
W06	Horizontal	409169	3723130	3.66	4.60	533	18.0	0.127
W07	Horizontal	409186	3723119	3.66	4.60	533	18.0	0.127
W08	Horizontal	409203	3723107	3.66	4.60	533	18.0	0.127
W09	Horizontal	409099	3723207	3.66	4.60	533	18.0	0.127
W10	Horizontal	409116	3723195	3.66	4.60	533	18.0	0.127
W11	Horizontal	409132	3723184	3.66	4.60	533	18.0	0.127
W12	Horizontal	409149	3723172	3.66	4.60	533	18.0	0.127
W13	Horizontal	409165	3723160	3.66	4.60	533	18.0	0.127
W14	Horizontal	409182	3723149	3.66	4.60	533	18.0	0.127
W15	Horizontal	409199	3723137	3.66	4.60	533	18.0	0.127
W16	Horizontal	409215	3723126	3.66	4.60	533	18.0	0.127
W17	Horizontal	409112	3723226	3.66	4.60	533	18.0	0.127
W18	Horizontal	409128	3723214	3.66	4.60	533	18.0	0.127
W19	Horizontal	409145	3723202	3.66	4.60	533	18.0	0.127
W20	Horizontal	409162	3723191	3.66	4.60	533	18.0	0.127
W21	Horizontal	409178	3723179	3.66	4.60	533	18.0	0.127
W22	Horizontal	409195	3723168	3.66	4.60	533	18.0	0.127

Huntington Beach Energy Project
Attachment DR104-9 Table 1
HBEP Construction and Demolition of Units 3 and 4 Source Parameters for AERMOD Input
April 2014

Point Sources

Source ID	Stack Release Type (Beta)	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Stack Height (m)	Temperature (K)	Exit Velocity (m/s)	Stack Diameter (m)
W23	Horizontal	409211	3723156	3.66	4.60	533	18.0	0.127
W24	Horizontal	409228	3723144	3.66	4.60	533	18.0	0.127
W25	Horizontal	409124	3723244	3.66	4.60	533	18.0	0.127
W26	Horizontal	409141	3723233	3.66	4.60	533	18.0	0.127
W27	Horizontal	409158	3723221	3.66	4.60	533	18.0	0.127
W28	Horizontal	409174	3723209	3.66	4.60	533	18.0	0.127
W29	Horizontal	409191	3723198	3.66	4.60	533	18.0	0.127
W30	Horizontal	409207	3723186	3.66	4.60	533	18.0	0.127
W31	Horizontal	409224	3723175	3.66	4.60	533	18.0	0.127
W32	Horizontal	409241	3723163	3.66	4.60	533	18.0	0.127
W33	Horizontal	409137	3723263	3.66	4.60	533	18.0	0.127
W34	Horizontal	409154	3723251	3.66	4.60	533	18.0	0.127
W35	Horizontal	409170	3723240	3.66	4.60	533	18.0	0.127
W36	Horizontal	409187	3723228	3.66	4.60	533	18.0	0.127
W37	Horizontal	409204	3723217	3.66	4.60	533	18.0	0.127
W38	Horizontal	409220	3723205	3.66	4.60	533	18.0	0.127
W39	Horizontal	409237	3723193	3.66	4.60	533	18.0	0.127
W40	Horizontal	409253	3723182	3.66	4.60	533	18.0	0.127
W41	Horizontal	409150	3723282	3.66	4.60	533	18.0	0.127
W42	Horizontal	409166	3723270	3.66	4.60	533	18.0	0.127
W43	Horizontal	409183	3723258	3.66	4.60	533	18.0	0.127
W44	Horizontal	409200	3723247	3.66	4.60	533	18.0	0.127
W45	Horizontal	409216	3723235	3.66	4.60	533	18.0	0.127
W46	Horizontal	409233	3723224	3.66	4.60	533	18.0	0.127
W47	Horizontal	409249	3723212	3.66	4.60	533	18.0	0.127
W48	Horizontal	409266	3723200	3.66	4.60	533	18.0	0.127
W49	Horizontal	409163	3723300	3.66	4.60	533	18.0	0.127
W50	Horizontal	409179	3723289	3.66	4.60	533	18.0	0.127
W51	Horizontal	409196	3723277	3.66	4.60	533	18.0	0.127
W52	Horizontal	409212	3723266	3.66	4.60	533	18.0	0.127
W53	Horizontal	409229	3723254	3.66	4.60	533	18.0	0.127
W54	Horizontal	409246	3723242	3.66	4.60	533	18.0	0.127
W55	Horizontal	409262	3723231	3.66	4.60	533	18.0	0.127
W56	Horizontal	409279	3723219	3.66	4.60	533	18.0	0.127
W57	Horizontal	409175	3723319	3.66	4.60	533	18.0	0.127
W58	Horizontal	409192	3723307	3.66	4.60	533	18.0	0.127
W59	Horizontal	409208	3723296	3.66	4.60	533	18.0	0.127
W60	Horizontal	409225	3723284	3.66	4.60	533	18.0	0.127
W61	Horizontal	409242	3723273	3.66	4.60	533	18.0	0.127
W62	Horizontal	409258	3723261	3.66	4.60	533	18.0	0.127
W63	Horizontal	409275	3723249	3.66	4.60	533	18.0	0.127
W64	Horizontal	409291	3723238	3.66	4.60	533	18.0	0.127
W65	Horizontal	409188	3723338	3.66	4.60	533	18.0	0.127
W66	Horizontal	409205	3723326	3.66	4.60	533	18.0	0.127
W67	Horizontal	409221	3723315	3.66	4.60	533	18.0	0.127
W68	Horizontal	409238	3723303	3.66	4.60	533	18.0	0.127
W69	Horizontal	409254	3723291	3.66	4.60	533	18.0	0.127
W70	Horizontal	409271	3723280	3.66	4.60	533	18.0	0.127
W71	Horizontal	409288	3723268	3.66	4.60	533	18.0	0.127
W72	Horizontal	409304	3723257	3.66	4.60	533	18.0	0.127

Area Sources

Source ID	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Release Height (m)	Easterly Length (m)	Northerly Length (m)	Angle from North	Vertical Dimension (m)
FUGW	409066	3723183	3.66	0.00	165	215	35.0	1.00

Area Poly Sources

Source ID	Base Elevation (m)	Release Height (m)	Number of Vertices	Vertical Dimension (m)	Easting (X1) (m)	Northing (Y1) (m)	Easting (X2) (m)	Northing (Y2) (m)	Easting (X3) (m)	Northing (Y3) (m)	Easting (X4) (m)	Northing (Y4) (m)
	3.66	0.00	9.00	1.00	409452	3723309	409563	3723310	409565	3723115	409537	3723136

Source ID	Easting (X5) (m)	Northing (Y5) (m)	Easting (X6) (m)	Northing (Y6) (m)	Easting (X7) (m)	Northing (Y7) (m)	Easting (X8) (m)	Northing (Y8) (m)	Easting (X9) (m)	Northing (Y9) (m)
FUGE	409449	3723089	409315	3723180	409358	3723245	409372	3723242	409453	3723187

Huntington Beach Energy Project
Attachment DR104-9 Table 2
HBEP Construction and Demolition of Units 3 and 4 Modeling Parameters - Emission Rates
April 2014

Emission Rates for 24-hour Modeling [a, b]

	24-hour PM_{10}		24-hour $PM_{2.5}$	
Source ID	(g/s)	(lb/hr)	(g/s)	(lb/hr)
E(1-70)	0.021	0.17	0.021	0.17
FUGE	0.025	0.20	0.0053	0.042
W(1-72)	0.0106	0.084	0.0106	0.084
FUGW	0.012	0.092	0.0013	0.0103
Maximum Month(s)	19		19	

Emission Rates for Annual Modeling [a, b]

	Annual PM_{10}		Annual $PM_{2.5}$	
Source ID	(g/s)	(lb/hr)	(g/s)	(lb/hr)
E(1-70)	0.012	0.10	0.011	0.088
FUGE	0.016	0.13	0.0028	0.022
W(1-72)	0.0074	0.059	0.0085	0.067
FUGW	0.0083	0.066	0.0010	0.0076
Maximum Months	14-25		16-27	

[a] Emission rates for construction exhaust point sources, W(1-72) and E(1-70) source groups, are presented as the sum total for all sources in each respective group.

[b] Units 3 and 4 demolition emissions, as well as construction emissions that overlap in time with the demolition of Units 3 and 4, were obtained from Table 5.1A.58R from Appendix 5.1AR, which is included with this submission as Attachment DR104-5R2.

Huntington Beach Energy Project
Attachment DR104-9 Table 3
HBEP Construction and Demolition of Units 3 and 4 Modeling Results
April 2014

		PM_{10} ($\mu g/m^3$)		$PM_{2.5}$ ($\mu g/m^3$)	
Source	Year	24-hour	Annual	24-hour	Annual
ALL	2008	14.4	4.71	4.29	1.25
CONSTRUCTION		14.1	4.54	4.09	1.16
DEMOLITION		4.53	1.11	0.91	0.30
ALL	2009	13.9	4.66	4.08	1.23
CONSTRUCTION		13.7	4.50	3.85	1.14
DEMOLITION		4.72	1.08	0.95	0.29
ALL	2010	14.0	4.60	4.15	1.23
CONSTRUCTION		13.7	4.44	4.02	1.14
DEMOLITION		4.87	1.12	1.02	0.29
ALL	2011	13.6	4.62	4.10	1.23
CONSTRUCTION		13.1	4.46	3.90	1.14
DEMOLITION		5.43	1.08	1.06	0.28
ALL	2012	15.0	4.80	4.24	1.27
CONSTRUCTION		14.3	4.63	3.97	1.18
DEMOLITION		5.61	1.09	1.04	0.29