

Table 2. Air Monitoring Revised Action Levels and Stop Work Levels during Encycle Demolition Project (2 Week Period from 2/6/12 to 2/20/12) - Wind Direction with Northerly Component, 5500 Up River Road, Corpus Christi, Texas

Parameter	OSHA PEL (8 hour TWA)	NAAQS	South Property	South Property	Sample Collection Frequency
			Boundary Action Level to Increase Dust Suppression/ Emission Controls ^a	Boundary Stop Work Level ^b	
Asbestos	0.1 f/cc		0.01 f/cc	0.01 f/cc	Daily during asbestos abatement activities.
Dust/Particulates (cement)	5 mg/m ³	0.15 mg/m ³ (PM ₁₀) 0.035 mg/m ³ (PM _{2.5})	0.13 mg/m ³ (PM ₁₀) ^c 0.031 mg/m ³ (PM _{2.5}) ^c	0.13 mg/m ³ (PM ₁₀) ^d 0.039 mg/m ³ (PM _{2.5}) ^d	Continuous real-time measurements during demolition, asbestos abatement, and hazardous waste removal.
Antimony	0.5 mg/m ³		0.005 mg/m ³ (f)	0.005 mg/m ³ (f)	At least twice weekly during demolition, asbestos abatement, and hazardous waste removal.
Arsenic	0.01 mg/m ³		0.0001 mg/m ³ (f)	0.0001 mg/m ³ (f)	At least twice weekly during demolition, asbestos abatement, and hazardous waste removal.
Barium	0.5 mg/m ³		0.005 mg/m ³ (f)	0.005 mg/m ³ (f)	At least twice weekly during demolition, asbestos abatement, and hazardous waste removal.
Cadmium	0.005 mg/m ³		0.0001 mg/m ³ (f)	0.0001 mg/m ³ (f)	At least twice weekly during demolition, asbestos abatement, and hazardous waste removal.
Chromium	0.5 mg/m ³		0.0036 mg/m ³ (f)	0.0036 mg/m ³ (f)	At least twice weekly during demolition, asbestos abatement, and hazardous waste removal.
Copper	1 mg/m ³		0.01 mg/m ³ (f)	0.01 mg/m ³ (f)	At least twice weekly during demolition, asbestos abatement, and hazardous waste removal.
Lead	0.05 mg/m ³	0.00015 mg/m ³ (e)	0.00015 mg/m ³	0.00015 mg/m ³ (e)	At least twice weekly during demolition, asbestos abatement, and hazardous waste removal.
Mercury	0.05 mg/m ³		0.00025 mg/m ³ (f)	0.00025 mg/m ³ (f)	At least twice weekly during demolition, asbestos abatement, and hazardous waste removal.
Nickel	1 mg/m ³		0.00015 mg/m ³ (f)	0.00015 mg/m ³ (f)	At least twice weekly during demolition, asbestos abatement, and hazardous waste removal.
Selenium	0.2 mg/m ³		0.002 mg/m ³ (f)	0.002 mg/m ³ (f)	At least twice weekly during demolition, asbestos abatement, and hazardous waste removal.
Silver	0.01 mg/m ³		0.0001 mg/m ³ (f)	0.0001 mg/m ³ (f)	At least twice weekly during demolition, asbestos abatement, and hazardous waste removal.
Zinc	15 mg/m ³		0.02 mg/m ³ (f)	0.02 mg/m ³ (f)	At least twice weekly during demolition, asbestos abatement, and hazardous waste removal.

f/cc Fibers per cubic centimeter

mg/m³ Milligrams per cubic meter

PEL Permissible exposure limit

TWA Time-weighted average

NAAQS National Ambient Air Quality Standards

PM_{2.5} and PM₁₀ NAAQS particulate matter (in micrometers diameter) 24-hour average standard. Annual standard (arithmetic mean) for PM_{2.5} is 0.015 mg/m³.

a These Action Levels apply on days when wind direction has a northerly component (i.e., when the wind is blowing from Encycle toward Up River Road). If an Action Level is exceeded, and the background (upwind sample) concentration is also exceeded on that same day, increased dust suppression/emission controls will be conducted.

b These Stop Work Levels apply on days when wind direction has a northerly component (i.e., when the wind is blowing from Encycle toward Up River Road). If the Stop Work Level is exceeded, and the background (upwind sample) concentration is also exceeded on that same day,

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demolition, hazardous waste removal, and asbestos abatement work will be stopped for a period of at least 30 minutes. During the work stoppage period, the Demolition Contractor shall make dust suppression adjustments to reduce airborne particulate matter concentrations below Action Level concentrations. In addition, if the asbestos or one or more metal concentrations exceed Stop Work Levels, since these parameters are not analyzed real-time, the Demolition Contractor shall immediately lower the real-time particulate PM_{2.5} and PM₁₀ Action Levels and Stop Work Levels by an amount corresponding to the Stop Work Level exceedance. For example, if the Stop Work level for nickel is exceeded by twice the Stop Work Level shown on this table, the PM_{2.5} and PM₁₀ Action Levels and Stop Work Levels will be reduced by half (i.e., PM_{2.5} and PM₁₀ Action Levels will be reduced to 0.0175 mg/m³ and 0.075 mg/m³, respectively; and the PM_{2.5} and PM₁₀ Stop Work Levels will be reduced to 0.0225 mg/m³ and 0.075 mg/m³, respectively). After the real time particulate Action Levels and Stop Work Levels have been reduced (minimum 2 week period), the Demolition Contractor shall make dust suppression adjustments, and the asbestos and metals analytical data will be evaluated every 2 weeks to determine the effectiveness of the dust suppression adjustments. If following the 2 week evaluation period, the asbestos and metal analytical data during that 2 week period show the asbestos and metals concentrations did not exceed any of the Action Levels, the PM_{2.5} and PM₁₀ Action Levels and Stop Work Levels can be returned to the original levels shown on this table.

c Average over 30 minute period. 0.015 mg/m³ annual average for PM_{2.5} shall not be exceeded.

d Average over one hour period.

e NAAQS Rolling 3-Month Average; Quarterly Average is 0.0015 mg/m³.

f Texas Effects Screening Levels (ESLs) - short term ESLs (1-hour averaging period)