

US EPA ARCHIVE DOCUMENT

Carter Carburetor Weekly Air Monitoring & Sampling Report

March 16, 2015 – March 22, 2015

Carter Carburetor Daily Weather Conditions							
	Monday 3/16/2015	Tuesday 3/17/2015	Wednesday 3/18/2015	Thursday 3/19/2015	Friday 3/20/2015	Saturday 3/21/2015	Sunday 3/22/2015
Temperature (range) ¹	47-83	41-68	39-47	40-51	42-57	42-69	45-65
Wind Speed (peak & average) ²	28.0 / 11.0	36.0 / 12.3	31.1 / 9.8	15.0 / 6.0	16.1 / 5.4	19.9 / 6.3	21.0 / 9.6
Wind Direction (predominant)	SW	NE	E	E	W	NW	E
Precipitation (total) ³	0.00	0.00	0.03	Trace	0.00	0.00	0.00

Carter Carburetor Daily Work Activities							
Site Activity	Monday 3/16/2015	Tuesday 3/17/2015	Wednesday 3/18/2015	Thursday 3/19/2015	Friday 3/20/2015	Saturday 3/21/2015	Sunday 3/22/2015
Dry Ice Blasting							
Power Washing	X	X	X	X	X		

Daily Air Monitoring and Sampling Results

Air Monitoring / Sampling Results - Station 1 (Results reported in µg/m ³)									
Parameter	Type of Analysis	Standard / Action Level	Monday 3/16/2015	Tuesday 3/17/2015	Wednesday 3/18/2015	Thursday 3/19/2015	Friday 3/20/2015	Saturday 3/21/2015	Sunday 3/22/2015
PM ₁₀ (24-hour TWA)	Real-time	150 µg/m ³ (NAAQS)	25.7	31.8	27.9	32.1	44.9	39.8	36.0
Lead (in air sample)	Lab	0.15 µg/m ³ (NAAQS)	<0.081	<0.079	<0.078	<0.080			
Comments	No laboratory samples collected Friday, 3/20/2015, through Sunday, 3/22/2015 (weekend).								

Air Monitoring / Sampling Results - Station 2 (Results reported in µg/m ³)									
Parameter	Type of Analysis	Standard / Action Level	Monday 3/16/2015	Tuesday 3/17/2015	Wednesday 3/18/2015	Thursday 3/19/2015	Friday 3/20/2015	Saturday 3/21/2015	Sunday 3/22/2015
PM ₁₀ (24-hour TWA)	Real-time	150 µg/m ³ (NAAQS)	8.5	13.6	10.6	14.0	26.1	20.3	15.2
Lead (in air sample)	Lab	0.15 µg/m ³ (NAAQS)	<0.075	<0.073	<0.072	<0.073			
Comments	No laboratory samples were collected Friday, 3/20/2015, through Sunday, 3/22/2015 (weekend).								

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Air Monitoring / Sampling Results - Station 3 (Results reported in $\mu\text{g}/\text{m}^3$)									
Parameter	Type of Analysis	Standard / Action Level	Monday 3/16/2015	Tuesday 3/17/2015	Wednesday 3/18/2015	Thursday 3/19/2015	Friday 3/20/2015	Saturday 3/21/2015	Sunday 3/22/2015
PM ₁₀ (24-hour TWA)	Real-time	150 $\mu\text{g}/\text{m}^3$ (NAAQS)	5.8	10.9	8.4	12.7	23.2	26.1	13.6
Lead (in air sample)	Lab	0.15 $\mu\text{g}/\text{m}^3$ (NAAQS)	<0.084	<0.082	<0.081	<0.082			
Comments	The PM ₁₀ 1-hour TWA was exceeded on Saturday, 3/21/2015, at 1:08am due to excessive car exhaust; the air monitoring results returned to normal shortly after. No laboratory samples were collected Friday, 3/20/2015, through Sunday, 3/22/2015 (weekend).								

Air Monitoring / Sampling Results - Station 4 (Results reported in $\mu\text{g}/\text{m}^3$)									
Parameter	Type of Analysis	Standard / Action Level	Monday 3/16/2015	Tuesday 3/17/2015	Wednesday 3/18/2015	Thursday 3/19/2015	Friday 3/20/2015	Saturday 3/21/2015	Sunday 3/22/2015
PM ₁₀ (24-hour TWA)	Real-time	150 $\mu\text{g}/\text{m}^3$ (NAAQS)	27.3	9.4	7.7	10.9	22.1	17.1	11.9
Lead (in air sample)	Lab	0.15 $\mu\text{g}/\text{m}^3$ (NAAQS)	<0.071	<0.069	<0.068	<0.069			
Comments	The PM ₁₀ air monitoring instrument malfunctioned on Monday, 3/16/2015, and was replaced. No laboratory samples were collected Friday, 3/20/2015, through Sunday, 3/22/2015 (weekend).								

Legend:

No shading – indicates TWA readings less than the applicable standard/action level	Yellow shading – indicates a 1-hour TWA exceeded the applicable standard/action level, but the 24-hour TWA was below the standard/action level; initiate investigation	Red shading – indicates the 24-hour TWA exceeded the applicable standard/action level; initiate corrective action	Orange shading – indicates no data are available
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NAAQS – National Ambient Air Quality Standard

PM₁₀ – Particulate matter less than 10 microns in size

TWA – Time-weighted average (average of data collected from 12:00 AM to 12:00 AM)

$\mu\text{g}/\text{m}^3$ – Micrograms per cubic meter

¹ Temperature reported in degrees Fahrenheit

² Wind speed reported in miles per hour

³ Precipitation reported in inches

