

**Industrial Hygiene Project Report, Ambient Lead Air Monitoring, WSSC
Temple Hills Blasting**

Submitted to: Kathleen Anderson
D&M Painting Corporation
1500 Amity Ridge Road
Washington, PA 15301

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1.0 Background and Executive Summary

Industrial Hygiene Air Sampling was conducted at the WSSC Temple Hills water tank blasting project on September 8, 2017. Four area air samples were collected at the four corners of the project site to verify that lead particulates generated by blasting activities are not migrating to adjacent properties. This project report port summarizes assessment methodologies and analytical results from the sampling.

2.0 Methodologies

The samples were collected using low flow air sampling points at a flow rate of 2.5 liters per minute for 480 minutes, for a total air volume of between 1,200 liters. The sampling pumps were pre and post calibrated using a rotameter calibrated against a primary standard. The samples were hand delivered under chain-of-custody to AMA Analytical Services of Lanham, Maryland for analysis via NIOSH Method 7082 (Flame AA). AMA Analytical Services is an American Industrial Hygiene Association (AIHA) accredited analytical laboratory.

3.0 Project Benchmarks

Section 02091, Paragraph 1.6.H of the WSSC project specifications establishes an ambient project action level of 30 $\mu\text{g}/\text{m}^3$. Sample results above this limit require modification of abatement methods to bring concentrations to below 30 $\mu\text{g}/\text{m}^3$.

4.0 Analytical Results

The analytical results of the four area samples collected on September 8, 2017 are summarized in Table 1. The results are presented by sample number, sample location and duration, and the analytical result.

Gary Morris, MS, CIH, CSP
Environmental, Health and Safety Management Consulting

As indicated by the data in Table 1, the analytical results of the four area air samples were below the analytical limit of detection (indicated by a less than symbol in the result).

Table 1 –Air Sampling Results

Sample Number	Sample/Type	Location and Duration	Analytical Result/ 8 Hour TWA
69059817-3	Area/Ambient	NE Perimeter Fence 480 Minutes	<2.5 µg/m ³
69059817-4	Area/Ambient	SE Perimeter Fence 480 Minutes	<2.5 µg/m ³
69059817-5	Area/Ambient	SW Perimeter Fence 480 Minutes	<2.5 µg/m ³
69059817-6	Area/Ambient	NW Perimeter Fence 480 Minutes	<2.5 µg/m ³

5.0 Conclusions

The analytical results of the four perimeter area air samples were below the project action level of 30 µg/m³ established in Section 02091, Paragraph 1.6.H of the WSSC project specifications.

If there are any additional questions, or if I can be of additional assistance, please do not hesitate to contact me at 240-328-4698.

Sincerely,

Gary Morris, MS, CIH, CSP

Gary Morris, MS, CIH, CSP
10389 Fox Meadow Circle
New Market, MD 21774
240-328-4698
[morriscgary@hotmail.com](mailto:morrisgary@hotmail.com)