

# Analytical Laboratory Report

April 15, 2010

Report ID: 9296760

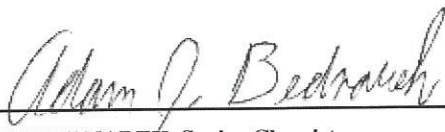
Company Number: 5898

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## PROJ 100406 WS-LEARNING GATE

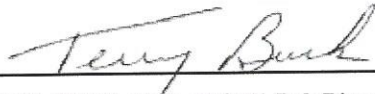
Date Received: 4/7/2010  
Date of Analysis: 4/14/2010  
Date Reported: 4/15/2010

Analyst:



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If you have any questions regarding this report please feel free to contact the laboratory via email (as listed above) or via telephone at 800-446-0403

## Analytical Results

LAB NUMBER FIELD NUMBER	DESCRIPTION				AIR VOLUME
1422680 100406WS-1 53 Formaldehyde	DNPB SEP-PAK	3.9 µg/sample	0.016 mg/m <sup>3</sup>	0.013 ppm	243.6 liters
1422681 100406WS-2 43 Formaldehyde	DNPB SEP-PAK	3.0 µg/sample	0.013 mg/m <sup>3</sup>	0.010 ppm	241.2 liters
1422682 100406WS-3 41 Formaldehyde	DNPB SEP-PAK	2.9 µg/sample	0.012 mg/m <sup>3</sup>	0.0098 ppm	244.8 liters

Displayed values on report have been rounded; however all calculations are performed using raw, unrounded intermediate results. Please contact the laboratory if you have any questions regarding our result calculation or rounding. All samples were received by the laboratory in acceptable condition unless otherwise noted.

## Analytical Methodology

### ALDEHYDE/ACETONE RESULTS:

These substances are analyzed using WOHL method WL051.10 based on EPA method T011A.

Samples are collected on DNPB coated cartridges, desorbed with acetonitrile and analyzed using high performance liquid chromatography with uv detection.

Reporting Limits may vary from sample to sample if SEP-PAK's are used.

Results are not blank corrected unless otherwise noted on report.

### REPORTING LIMITS:

This table contains the WOHL determined reporting limits for the compounds specified in this report. These numbers are based on the historical statistical data for a particular analyte or are based on WOHL determined values.

<u>Analyte</u>	<u>Reporting Limit</u>
Formaldehyde on DNPB SEP-PAK (Volume = 4.5ml)	0.72 µg/sample
Formaldehyde on DNPB SEP-PAK (Volume = 4.6ml)	0.74 µg/sample

## Analytical Quality Control

Laboratory prepared quality control (QC) samples were analyzed along with the samples included in the analytical report. The analysis results for these QC samples are listed below.

Instrument Used for Analysis: Waters Acquity UPLC

### Laboratory Control Sample: 139995

QC Sample Media: DNPH Sep Paks

<u>Analyte</u>	<u>Target Value</u>	<u>Recovery (%)</u>	<u>Acceptable Recovery (%)</u>	<u>Pass/Fail</u>
Formaldehyde (LC)	0.7 µg/sample	101.9	76 - 124	PASS

### Laboratory Control Sample: 139996

QC Sample Media: DNPH Sep Paks

<u>Analyte</u>	<u>Target Value</u>	<u>Recovery (%)</u>	<u>Acceptable Recovery (%)</u>	<u>Pass/Fail</u>
Formaldehyde (LC)	1.5 µg/sample	104.4	76 - 124	PASS

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The acceptable range for an analyte is based on the standard deviation of each analyte, which has been determined from statistical evaluation of the historical performance of the assay. The acceptable range includes up to 3 standard deviations, so a result within 3 standard deviations is considered to have passed the QC requirements. A result outside of the acceptable range is considered to have failed QC and may indicate the direction of possible bias for the samples included in the analytical report. The analytes used for QC determination will not always be the same analytes that appear in the samples for the report, however they are representative of the compounds found in the samples and indicative of overall assay performance.

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## End of Analytical Report

The results in this report apply only to the samples, specifically listed above, tested at the Wisconsin Occupational Health Laboratory .  
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