

June 18, 2013

Rick Bratton
Bratton's, Inc.
177 Bratmore Terrace
Hot Springs, AR 71901

Dear Mr. Bratton,

Enclosed is our draft report from the industrial hygiene air sampling project that we conducted at Saint Jean Industries, Inc. on June 7, 2013. Four area samples were collected and analyzed for metal working fluids.

Positions	Potential Air Contaminant	# of samples
Cast Only CNC, operator station	Metal Working Fluids	1
Cast Only CNC, top of exhaust unit	Metal Working Fluids	1
Honda Line, operator station	Metal Working Fluids	1
Honda Line, top of exhaust unit	Metal Working Fluids	1

Please contact me at (800) 256-1835 if you need to discuss this draft. Otherwise, please consider this as the final report.

Sincerely,

Patricia Carlisle, CIH

Bratton's, Inc.
at
Saint Jean Industries, Inc.

Industrial Hygiene
Air Monitoring Project

Conducted

June 7, 2013

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Table 1 – Metal Working Fluids

I. Executive Summary

On June 7, 2013, Carlisle Consulting, Inc. collected four area samples for the purpose of comparing the airborne levels of metal working fluids at the exhaust of two Industrial Maid exhaust units to the corresponding operator stations. The samples were submitted to ALS Laboratories, an American Industrial Hygiene Association (AIHA) accredited laboratory, for analysis.

The air concentrations at the operator stations were higher than the concentrations measured at the exhaust of the Industrial Maid units. Two maintenance personnel and two operators stated that the air quality seemed much better since the installation of the Industrial Maid units. Specifically, they pointed out that the “cloud” near the ceiling and disagreeable odors are no longer noticeable.

II. Introduction

This industrial hygiene survey was initiated at the request of Bratton’s, Inc. for the purpose of quantifying improvements made to the indoor air quality at Saint Jean Industries in Heber Springs, Arkansas after the installation of Industrial Maid exhaust units. The results from the air sample analyses are found in the attached data table.

III. Air Monitoring Results

NIOSH Method #5524 for Metal Working Fluids was used for sample analysis. The air concentrations at the operator stations were higher than the concentrations measured on top of the Industrial Maid exhaust units, indicating that they are reducing the airborne concentrations of metal working fluids.

Both of the sample results were below the National Institute for Occupational Safety and Health (NIOSH) recommended exposure limit (REL) for metal working fluids and are reported in Table 1. The Occupational Safety and Health Administration (OSHA) and the American Conference of Governmental Industrial Hygienist (ACGIH) do not have exposure limits for metal working fluids. Since the samples were “area” samples, they are not representative of worker exposure.

Table 1
Bratton's, Inc.
At Saint Jean Industries
Metal Working Fluids Concentrations, in mg/m³

Sample #	1	2	4	5		
Date	6/7/13	6/7/13	6/7/13	6/7/13		
Area/Position	Cast Only CNC Industrial Maid Exhaust	Cast Only CNC Operator station*	Honda Line Industrial Maid Exhaust	Honda Line Operator station*		
Time (min.)	472	472	464	464	Limit of Detection (mg)	NIOSH REL (8-hr. TWA) (mg/m3)
Air Volume (L)	945	946	929	928		
Metal Working Fluids	<0.042	0.13	<0.043	0.47	0.040	0.5

**Area samples are not representative of personal exposure levels.*