

U.S. Environmental Protection Agency

Air Study at Grenada Stamping

Information for Workers



Fact Sheet #12

August 2017

Introduction

EPA directed Grenada Manufacturing, LLC (Facility), to perform air sampling in and around the manufacturing building (commonly known as Grenada Stamping and currently operated by Ice Industries) in October 2016 and January, March and May 2017. The most recent results continue to show some elevated levels of trichloroethene (TCE) in the Facility's indoor air. TCE contamination is believed to be present beneath the Facility as a result of spills from prior operations. Sampling indicates TCE vapors from beneath the concrete floor are rising into the building and there could be a risk to workers. More information about the cleanup of the Facility is posted at: www.epa.gov/grenadacleanup

May 2017 Results

Indoor Air Results

Results from May 2017 sampling ranged from non-detect to exceeding removal management levels (RMLs) for sensitive and non-sensitive populations. RMLs are used by EPA to help determine if any future actions may be needed. A sample result higher than a RML by itself does not imply that adverse health effects will occur.

A new, more robust sampling protocol began in May. Indoor air samples were collected using Radiello® samplers that slowly draw air over a specified duration. Samples were collected at six locations, including three locations where workers among the sensitive population work (Program A), and three locations where workers among the non-sensitive population work (Program C). Each Program A location was sampled over different time periods: eight hours (from the start of three work shifts) once a week for three weeks, over 7-days and 14-days. Each Program C location was sampled over different time periods: eight hours (from the start of three work shifts) once a week for three weeks, over 7-days and 30-days. This yielded 90 samples (summarized in Table 1). The data show that interim measures continue to help lower the indoor air concentrations inside the Facility.

Table 1: Summary of TCE Concentrations in Indoor Air inside of Manufacturing Building

Sample Duration	Sampling Date	RML for Sensitive Populations	Concentrations Detected Program A Locations		
			B-4	B-6	B-9
8 hour	5/1-16/2017	8.8	ND - 280 J	ND -240 J	ND - 91
7 day	5/1-8/2017	8.8	46	40	75
14 day	5/1-15/2017	8.8	1.2	1.2	1.2
Sample Duration	Sampling Date	RML for Non-Sensitive Populations	Concentrations Detected Program C Locations		
			A-5	B-3	B-8
8 hour	5/1-2/2017	26	ND	ND	ND
7 day	5/1-8/2017	26	20	29	14
30 day	5/1-30/2017	26	7.4	13	**

Concentrations reported in micrograms per cubic meter **ug/m3**

ND TCE was not detected

J TCE was detected, however, the concentration is estimated

****** The Radiello® sampler was moved or stolen and no data could be collected.

The Removal Management Level (RML) for sensitive Populations, which includes women of childbearing age, is 8.8 $\mu\text{g}/\text{m}^3$. The RML for non-sensitive populations is 26.0 $\mu\text{g}/\text{m}^3$.

Worker Health

If you have health questions, you may want to consult your doctor. The Agency for Toxic Substances and Disease Registry (ATSDR) has TCE exposure information available for you and your doctors upon request. The materials explain how you can be exposed to TCE and how it may affect your health. For more information, contact:

- o Mississippi Poison Control Center: (601) 984-5577 or (800) 222-1222
- o Leann Bing, ATSDR: (404) 562-1784 or KBing@cdc.gov
- o Occupational Safety and Health Administration: (601)965-4606 or www.osha.gov/workers/file_complaint.html
- o Dr. Paul Byers, Mississippi State Department of Health: (601) 576-7725

May 2017 Results (continued)

Outdoor Air Results

Throughout May, outdoor air samples were also collected using Radiello® samplers from outside the four corners of the manufacturing building. Sample durations ranged from eight hours to 30 days. TCE was detected in two of 40 samples at low levels below the indoor RMLs (there is no RML for outdoor air). Detailed results are posted online.

Ongoing Sampling

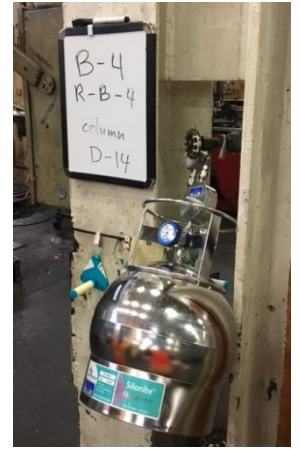
Indoor air sampling is ongoing inside of the Facility. The current sampling protocol and indoor air sampling frequency are described in detail on the EPA website. **Future sampling results will be made available online at:** www.epa.gov/grenadacleanup.

Actions Being Taken

Interim measures to increase ventilation to the work area are ongoing and the data show that these actions continue to help lower the indoor air concentrations inside the Facility. EPA and the Facility's goal is to further reduce TCE concentrations by installing a vapor intrusion treatment system called "sub-slab depressurization." A pilot study of the proposed treatment system began in early August 2017 (see Fact Sheet #11).

The Facility will also perform additional indoor and outdoor air sampling for TCE with EPA oversight, as follows:

- Indoor air is being sampled monthly using passive Radiello® samplers; and
- Outdoor air is being sampled monthly from July through October to monitor conditions during the warmest months.



A Summa air canister and a Radiello® sampler

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FOR MORE INFORMATION

Website

www.epa.gov/grenadacleanup

Information Repository

Elizabeth Jones Library
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