



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, ILLINOIS 60604**

DATE: DEC 17 2018

SUBJECT: CLEAN AIR ACT INSPECTION REPORT
Three Brothers Laundry, Chicago, Illinois

FROM: Scott Connolly, Environmental Engineer
AECAB (IL/IN)

THRU: Nathan Frank, Section Chief
AECAB (IL/IN)

TO: File

BASIC INFORMATION

Facility Name: Three Brothers Laundry

Facility Location: 2643 West 19th Street, Chicago, Illinois

Date of Inspection: December 11, 2018

EPA Inspector:

1. Scott Connolly, Environmental Engineer

Other Attendees

1. Nick Patel, Manager/Owner, Three Brothers Laundry
2. Nathan Frank, Section Chief, EPA

Contact Email Address: threebrotherslaundry@gmail.com

Purpose of Inspection: To determine compliance with the Clean Air Act and to address citizen complaints.

Facility Type: Dry cleaning and laundry services

Regulations Central to Inspection: 40 C.F.R. Part 63, Subpart M – National Perchloroethylene Air Emissions Standards for Dry Cleaning Facilities

Arrival Time: 9:10 am

Departure Time: 9:50 am

Inspection Type:

- ☒ Unannounced Inspection
- ☐ Announced Inspection

OPENING CONFERENCE

- ☒ Credentials Presented
- ☒ CBI warning to facility provided

The following information was obtained verbally from Nick Patel unless otherwise noted.

Process Description:

The facility operates as an industrial laundromat that processes mostly hotel laundry. The facility operates up to 12 hours per day, 7 days per week, depending on customer orders. Pillows cases, clothing and smaller items are washed in one of three single load washers. Sheets, towels and other linens are washed in a multi-stage washing machine that can process up to 30,000 pounds of laundry a day. Cleaning soaps and chemicals are withdrawn directly from storage by a system of pumps and are added to the machine in premeasured amounts. The multi-stage washing machine has two vents that vent directly out the roof. Washed linens exit the multi-stage washer and are automatically pressed to remove water before entering one of four Milnor, natural gas-powered industrial dryers. Each dryer has two stacks, one exhaust and one intake. A fabric filter bag is used to capture lint from the dryers. Dried linens are ironed and folded in automatic machines that use a heating oil system to heat press any wrinkles out. Ironed and folded linens are sent by truck back to customers. The facility operates one perchloroethylene dry cleaning machine that was installed in May 2018.

Staff Interview: Mr. Patel stated that the roll iron machines use a wax to maintain consistent products and that the towels and sheet are partially wet when fed into the heated rolls. Mr. Patel stated that ventilation stacks were added to the tunnel washing machine at the request of City of Chicago inspectors because the machine diagrams indicate ventilation location and that the manufacturer typically recommends capping the outlets during normal operations. The facility recently switched to new washing products, manufactured by Ecolab. In July 2018, the facility started operating its relocated a dry-cleaning machine and began dry cleaning operations. The dry-cleaning machine uses perchloroethylene, but Mr. Patel stated that he had no knowledge of any compliance submittals.

TOUR INFORMATION

EPA toured the facility: Yes

Data Collected and Observations:

The room containing the ironing machines was visibly hazy at the time of the inspection. The tunnel washing machine and industrial driers were not operating at the time of the inspection.

Photos and/or Videos: were taken during the inspection.

A digital image log is contained in Appendix A.

Field Measurements: were not taken during this inspection.

RECORDS REVIEW

1. No records were reviewed on site

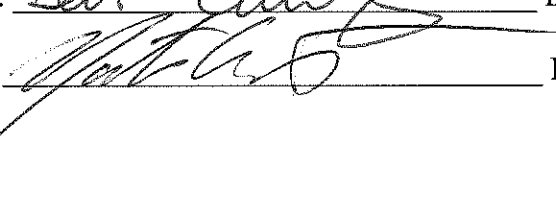
CLOSING CONFERENCE**Requested documents:**

1. Safety data sheets for all cleaning materials used at the facility, including the Ecolab products
2. Perchloroethylene (PCE) usage at the facility since dry cleaning operations began.
3. Monthly and/or weekly checks for vapor leaks on the dry-cleaning machine since operations began
4. Specify whether a refrigerated condenser or carbon adsorber is used to control emissions of PCE from the dry-cleaning machine.
5. Notification of Compliance Status

Compliance Assistance: Facility staff were informed that by using perchloroethylene the facility was subject to the National Perchloroethylene Air Emissions Standards for Dry Cleaning Facilities and that the regulations require the facility to submit a notification of compliance to the state.

SIGNATURES

Report Author:  Date: 12/14/18

Section Chief:  Date: 12/17/18

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APPENDICES AND ATTACHMENTS

I. Appendix A: Digital Image Log

Facility Name: Three Brothers Laundry
Facility Location: 2643 West 19th Street, Chicago, Illinois
Date of Inspection: December 11, 2018

APPENDIX A: DIGITAL IMAGE LOG

1. Inspector Name: Scott Connolly	2. Date of Inspection: December 11, 2018
3. Company/Facility Name: Three Brothers Laundry	4. Street Address, City, State: 2643 West 19th Street, Chicago, Illinois
5. Number of Images: 4	6. Archival Record Location: https://usepa-my.sharepoint.com/:f/g/personal/connolly_scott_epa_gov/E11XlZzKgKpEi-73dcTali8B8tIZKqcOxb41EFa8pCcqZw?e=kFf924

Image Number	File Name	Date and Time	Latitude and Longitude	Description of Image
1	PC110001.JPG	12/11/2018 9:25	Data Not Available	Dry cleaning machine (front)
2	PC110002.JPG	12/11/2018 9:26	Data Not Available	Dry cleaning machine (back)
3	PC110003.JPG	12/11/2018 9:30	Data Not Available	Out of range valve on dry cleaning machine
4	PC110004.JPG	12/11/2018 9:30	Data Not Available	Control Panel on front of dry cleaning machine

