

GDC WEEKLY SAMPLING PLAN

Project name **Weekly Sampling – BD Global Distribution Center**
Client **Becton, Dickinson and Company**
Version **1**
To **Georgia Environmental Protection Division (EPD)**
From **Russell S. Kemp, PE**

TASK

Date January 13, 2020

Conduct indoor and outdoor air monitoring for ethylene oxide (EO) at the Becton, Dickinson and Company (BD) Global Distribution Center (GDC) located at 14201 Lochridge Blvd. in Covington (Newton County), Georgia.

FACILITY OVERVIEW

The GDC is a warehousing and distribution operation that receives ethylene oxide sterilized medical products from BD's nearby sterilization facilities in Covington and Madison, Georgia, and ships out these products to customers.

Ramboll
1600 Parkwood Circle
Suite 310
Atlanta, GA 30339
USA

SAMPLING PLAN

Sampling will be conducted using the procedures described in the "Estimation of Fugitive Ethylene Oxide Emissions Report." In this ongoing weekly sampling, we will not be collecting samples from the exterior west wall of the facility (W1) as that location is neither "indoor" nor "fence line." Sampling will include the indoor samples in the various GDC "Sections" and the perimeter sample P1 at the southwest fence line adjacent to the guard shack and incoming truck entrance. Indoor samples will be collected from the locations marked in the attached figure.

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Adjustments to this sampling approach, methods, or sample locations would only be made upon advance consultation with and approval from the Georgia Environmental Protection Division (EPD).

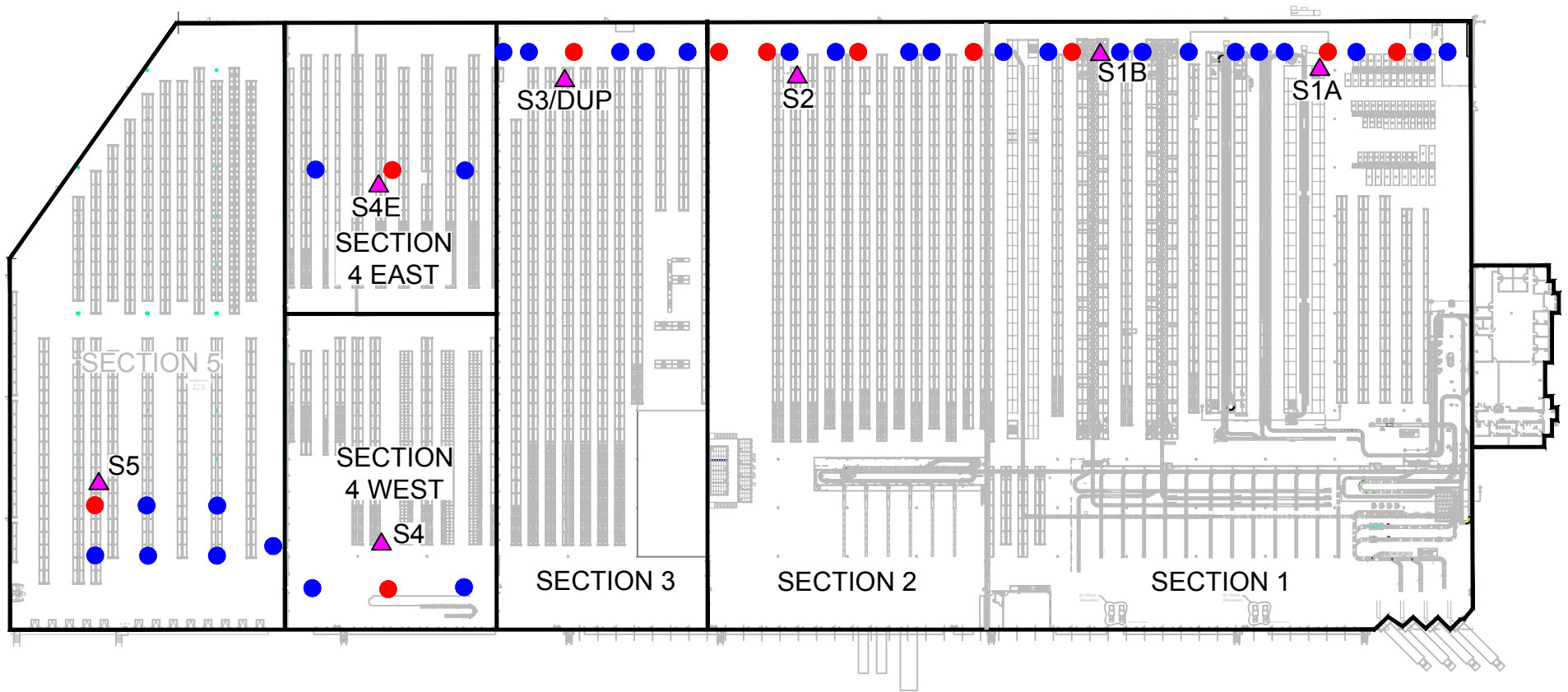
Concentrations of EO in the air will be sampled over an approximately 24-hour period over two consecutive days. Samples will be collected using Summa Canisters set to pull samples over a 24-hour duration. Canisters will be placed in the middle of the first day and collected the middle of the second day. These times will generally be in the range between 10:00 a.m. and 3:00 p.m.

SCHEDULE

Sampling will be performed Wednesday to Thursday every week. Any deviation from this schedule will be made with at least 24-hour notice to the EPD.

ANALYTICAL METHODS

The samples collected in the Summa Canisters will be analyzed using EPA Method TO-15 with GC/MS in the Selective Ion Monitoring (SIM) acquisition mode to determine the concentration of ethylene oxide. Analysis will be performed by Eurofins, a national independent laboratory. Concentration results will be reported in units of micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).



LEGEND:
● NON-OPERATING FAN LOCATION (APPROXIMATE)
● OPERATING FAN LOCATION (APPROXIMATE)

0 130
SCALE IN FEET

ROOF FAN LOCATIONS
14201 LOCHRIDGE BOULEVARD
COVINGTON, GEORGIA



FIGURE
1

DRAFTED BY: RGM

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PROJECT: 1690014483