



**Richard E. Dunn, Director**

**Air Protection Branch**

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**MEMORANDUM**

**TO:** Sean Taylor  
**THROUGH:** Daniel McCain  
**FROM:** Ray Shen  
**SUBJECT:** SOURCE TEST REPORT REVIEW

The following test has been reviewed and was conducted in an acceptable fashion for the purpose intended.

<b>COMPANY NAME</b>	BD Global Distribution Center																						
<b>COMPANY ADDRESS</b>	Covington, GA																						
<b>SOURCE TESTED</b>	Dry Bed Fugitive Control System																						
<b>POLLUTANT DETERMINED</b>	Ethylene Oxide																						
<b>REPORT REVIEWED BY</b>	Ray Shen																						
<b>TEST WITNESSED BY</b>	Anna Gray, Marcus Cureton																						
<b>DATE(S) OF TEST</b>	December 21, 2021																						
<b>DATE RECEIVED BY APB</b>	March 22, 2022																						
<b>APPLICABLE REQUIREMENT</b>	N/A																						
<b>MEMORANDUM</b>	<p>BD has a BACT system for the capture and control of potential fugitive emissions of ethylene oxide (EtO) that emits from the Global Distribution Center (GDC) in Covington, GA. The equipment includes (3) ductwork zones totaling (50) Advanced Air Technologies Model DR490 Dry Bed Scrubbers. Each dry bed cell is designed for max. 2,000 ACFM flowrate.</p> <p>Air flow rates at three zones of the inlet ducts and the outlet ducts were measured. Samples from the flows of all three inlet ducts and the exhaust duct were drawn into summa canisters. Results are shown below.</p> <table> <thead> <tr> <th></th><th>CONC. (ug/m<sup>3</sup>)</th><th>FLOW (dscfm)</th><th>EMISSION RATE (lb/hr)</th></tr> </thead> <tbody> <tr> <td>Zone 2 Inlet (25 Dry Bed cells)</td><td>510</td><td>45,444</td><td>0.0868</td></tr> <tr> <td>Zone 3 Inlet (17 Dry Bed cells)</td><td>850</td><td>33,722</td><td>0.1074</td></tr> <tr> <td>Zone 5 Inlet (8 Dry Bed cells)</td><td>160</td><td>14,075</td><td>0.0084</td></tr> <tr> <td>Outlet</td><td>18</td><td>97,455</td><td>0.0066</td></tr> </tbody> </table> <p>DRE of Dry Bed System is 96.76%. Annual EtO emission post-dry bed fugitive control system is 57.56 Lb./Yr. Annual EtO emission pre-dry bed fugitive control system is 1,775 Lb./Yr.</p>				CONC. (ug/m <sup>3</sup> )	FLOW (dscfm)	EMISSION RATE (lb/hr)	Zone 2 Inlet (25 Dry Bed cells)	510	45,444	0.0868	Zone 3 Inlet (17 Dry Bed cells)	850	33,722	0.1074	Zone 5 Inlet (8 Dry Bed cells)	160	14,075	0.0084	Outlet	18	97,455	0.0066
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cc: Sean Taylor  
AIRS Number: 217-00075

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