

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

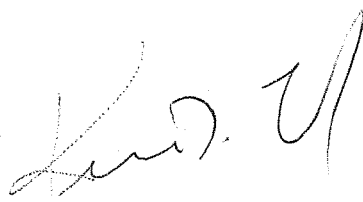
INTEROFFICE COMMUNICATION

TO: Sybil Kolon, Project Manager  
Remediation Division  
Jackson District

FROM: Kevin Lund, PE Senior Geologist  
Remediation Division (RD)  
Jackson District

DATE: August 25, 2010

SUBJECT: High Density polyethylene (HDPE) life expectancy  
Pall/Gelman Ann Arbor, Michigan



This memorandum presents a review of the July 8, 2010 letter to Pall Corporation from Fishbeck, Thompson, Carr and Huber, Inc. (FTC&H) regarding the analysis of the HDPE horizontal pipeline life expectancy. Pall Corporation submitted the letter to the MDNRE Remediation Division as an examination of the HDPE horizontal pipeline life expectancy.

I have reviewed the letter and attachments that support FTC&H's opinion the HDPE pipeline will have a service life of at least 50-years. Independently I have found that HDPE has been used in drinking water pipe applications for almost 50 years and is specified and/or approved in American Water Works Association (AWWA) C901, AWWA C906, National Science Foundation (NSF) 14, NSF 16 and American Society for Testing and Materials (ASTM) D3035.

In my opinion, I agree the HDPE pipe will have a service life of at least 50-years, provided the HDPE piping was assembled correctly and is not damaged by unforeseen external forces.

KL

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