

From: Jack, Richard F.
Sent: Tuesday, October 22, 2013 6:26 PM
To: Hanlon, Edward
Subject: Ref. for EPA SAB panel Nov. 20

Dear Ed,

I would like to include the following pdf for the panel review's consideration.

Warner, N.R., Christie, C.A., Jackson, R.B., and Vengosh, A. Impacts of Shale Gas Wastewater Disposal on Water Quality in Western Pennsylvania. 2013. *Environ. Sci. Technol.* Volume 47, Issue 20: 11849–11857.

Thank You,

Richard F. Jack, Ph.D.
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