



**pennsylvania**  
DEPARTMENT OF ENVIRONMENTAL  
PROTECTION

December 19, 2017

**CERTIFIED MAIL NO.** [REDACTED]

[REDACTED]

Re: 58 Pa. C.S. § 3218 Determination  
Water Supply Request for Investigation No. 273350  
Terry Township, Bradford County

Dear [REDACTED]

The Department initiated an investigation of the possible degradation (reported turbid water) of your water supply ("Water Supply") located at the above referenced address, in response to an August 11, 2010 complaint that gas well drilling activities may have affected the Water Supply. Based on the sample results and other information obtained during the Department's investigation, the Department determined that the Water Supply was adversely affected by oil and gas activities including but not limited to the drilling, alteration, or operation of an oil or gas well. A letter detailing this determination was issued to you on November 15, 2010.

Subsequent to the issuance of the November 15, 2010 letter, additional samples were collected from the Water Supply. The samples were collected by a qualified third party or the Department, and submitted to the Department's laboratory or an independent accredited laboratory for analysis. The analytical reports for those samples were previously submitted to you and are summarized on the enclosed tables attached to this letter. Based on the Department's investigation, the Department has determined that the impacts on the Water Supply were temporary and that the quality of the Water Supply has now returned to pre-drill conditions. Because the Water Supply has returned to pre-drill conditions, the Department does not plan to require further action regarding the Water Supply.

Should you have any questions, please feel free to contact William J. Kosmer, P.G. at 570-974-2613.

Sincerely,

Jennifer W. Means  
Eastern District Oil and Gas Manager  
District Oil and Gas Operations

Enclosures:  
Laboratory Analytical Tables  
"How to Interpret A Water Analysis Report"



# pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION  
208 West Third Street, Suite 101  
Williamsport, PA 17701-6448

November 15, 2010

Northcentral Regional Office

Fax 570-327-3565

CERTIFIED MAIL NO. [REDACTED]

Re: Act 223, Section 208 Determination  
Complaint ID# 273350  
Terry Township, Bradford County

Dear :

In response to your August 11, 2010 complaint, the Department has investigated the possible pollution of your water supply (well) by oil or gas drilling activities.

On August 18, 2010, I sampled your water supply. The samples I collected were analyzed by our Bureau of Laboratories in Harrisburg. I have included, with this letter, a table summarizing the analyses completed from my sampling of your well, Chesapeake Appalachia's pre-drill water survey of your well (04/01/2010), and Chesapeake Appalachia's most recent sampling of your well (10/01/2010). Also enclosed is a fact sheet explaining maximum contaminant levels (MCLs) and interpretations of water sample results.

My August 18, 2010 sample of your well shows a concentration of Aluminum that exceeds drinking water maximum contaminant levels, while Chesapeake Appalachia's most recent sampling of your well shows concentrations of Iron and Manganese that exceed both your pre-drill survey levels and drinking water maximum contaminant levels. After carefully reviewing the sample results, and other information gathered during our investigation, the Department has determined that your water supply has been adversely affected by drilling activities conducted by Chesapeake Appalachia.

Pursuant to the provisions of Section 78.51 of the Department's rules and regulations (25 Pa. Code § 78.51), as enclosed, Chesapeake Appalachia must now develop a plan to restore or replace your existing private water supply if they cannot demonstrate that the impacts to your well are no longer existent. In the meantime, Chesapeake Appalachia is still responsible for providing you with an adequate (in both quality and quantity) alternative water supply source.

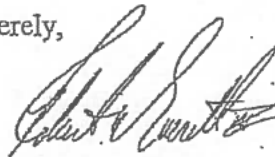
Should you have any questions, or require additional clarification, please contact me at 570-327-3680.

Water Supply Complaint  
Terry Township, Bradford County

- 2 -

November 15, 2010

Sincerely,



Robert W. Everett III  
Water Quality Specialist  
NCRO Bureau of Oil and Gas Management

Enclosures: Table Summarizing Analytical Results from Water Supply Sampling  
Copy of Penn State Article on "How to Interpret a Water Analysis Report"  
Copy of PA DEP Drinking Water Maximum Contaminant Levels (MCLs) Chart  
Copy of 25 Pa. Code § 78.51

cc: Jennifer W. Means (DEP BOGM Eastern Operations Program Manager)  
John W. Ryder (DEP BOGM Eastern Operations Group Manager)  
Tal Oden (Chesapeake Appalachia [REDACTED])  
NCRO Complaint File