



February 21, 2018

CERTIFIED MAIL NO. [REDACTED]

[REDACTED]

Re: Water Supply Request for Investigation ID: 330739
58 Pa.C.S. § 3218 Determination
Silver Lake Township, Susquehanna County

Dear [REDACTED]

The Department of Environmental Protection (Department) has investigated the possible degradation of your water supply located at the above referenced address ("Water Supply"), in response to a complaint received on November 3, 2017, that recent oil and gas activities may have affected your Water Supply. Based on sample results and other information obtained to date, the Department's investigation indicates that oil and gas operations are the cause of the pollution of your Water Supply. The information upon which this determination is based is summarized below.

Summary of Investigation

On November 3, 2017, the Department received notification of a complaint from Southwestern Production Company (SWNPC). The complaint was related to an increase in several parameters of concern in your Water Supply. On November 15, 2017, the Department initiated an investigation of your Water Supply and collected water samples from your Water Supply and spring, that were submitted to the Department's laboratory in Harrisburg for analysis. As a result, the Department was able to substantiate your complaint. The analytical results were previously provided to you but are summarized in the attached table for your convenience.

Results of samples from your Water Supply collected by SWNPC showed that the Water Supply had levels of Total Dissolved Solids (TDS) and chloride above pre-drill levels, and their respective standards. Specifically, TDS was detected at 577 milligrams per liter (mg/l) and chloride was detected at 485 mg/l on September 27, 2017. These levels are all elevated above the pre-drill samples collected on August 22, 2012. They also exceed the secondary maximum contaminant levels (SMCL) for regulated drinking water supplies. TDS exceeded its SMCL of 500 mg/l and chloride was found to be elevated over its SMCL of 250 mg/l. Please note that the most recent samples collected by the Department on November 15, 2017, indicate that the concentrations of these contaminants have decreased to 284 mg/l for TDS and 95mg/l for chloride. These levels, while below the SMCLs, are still elevated above the pre-drill levels.

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It is the Department's understanding that you are currently being provided bottled water. The Department is continuing to work to permanently resolve this issue. Should you have any questions, please feel free to contact Eric Rooney, P.G. at 570-346-5543 or erooney@pa.gov.

Sincerely,



Jennifer W. Means
Environmental Program Manager
Eastern Oil and Gas District

Enclosures:

Results Table
"How to Interpret a Water Analysis Report"

cc:

Michael O'Donnell (email)
Briana Cunningham (email)
Eric Rooney, P.G. (email)
Complaint File # 330739