



June 1, 2022

CERTIFIED MAIL NO. [REDACTED]

[REDACTED]

Re: 78a.51 Determination
Water Supply Request for Investigation No. 313289
Gallagher Township, Clinton County

Dear [REDACTED]

The Department of Environmental Protection (Department) has completed its investigation of your water supply located at the above referenced address (“Water Supply”), in response to a complaint received on June 30, 2015, that recent oil and gas activities affected the Water Supply. Based on the sample results reviewed and supplementary information obtained to date, the Department has determined that the Water Supply was temporarily affected by oil and gas activities but has returned to background conditions. Nevertheless, please note that, in the absence of any treatment, your water quality does not meet (i.e., is worse than) the following health and/or aesthetic statewide standards:

Parameters	Unit	Statewide Standards or Recommended Levels	Your Highest 2020 Sample Results that Are Above Statewide Standards/Levels
Iron	mg/L	0.3	0.812
Turbidity	NTU	1	3.812
Total Coliform	MPN/100 mL	Present	>200.5

You may consider exploring remedial actions regarding the levels of the above constituents. The Department’s investigation into your complaint is set forth below.

Summary of Investigation

On June 30, 2015, you complained to the Department that your water had become “muddy” starting earlier that month.

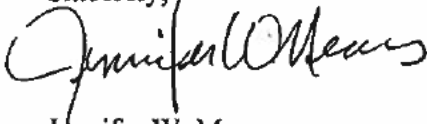
Initial samples from the Water Supply showed that the Water Supply had levels of iron, turbidity, and aluminum above pre-activity (pre-drill) levels. As a result, on November 4, 2015, the Department sent you a letter indicating that your Water Supply had been impacted by construction activity associated with a nearby compressor station. However, additional sampling

results revealed that those parameters returned to levels that were comparable to pre-activity conditions. As you are aware, the Water Supply is a shallow well, and water is withdrawn via a hand pump. Please note that the elevated levels of iron and turbidity noted in the above table were the result of pumping the well approximately 65 times in order to determine if pumping the well caused agitation and a change in conditions. The enclosed table provides comprehensive sample results from the Water Supply. The results of the other samples collected in 2020 are comparable to pre-drill samples collected from the Water Supply in January 2011.

Based on the Department's investigation, the Department has determined that the impacts to the Water Supply were temporary and that the quality of the Water Supply is comparable to background conditions. As a result, the Department does not plan to require further action regarding the Water Supply. However, please note that shallow wells are susceptible to pollution and surface water influences. You may wish to pursue remedial actions regarding the levels of bacteria, iron, and turbidity in your Water Supply. Please see the enclosed Fact Sheet regarding disinfection of home wells and springs.

Please contact Sue Herzing at 570.244.7785 if you have any questions about the Department's determination regarding the Water Supply.

Sincerely,



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

Enclosures:

Laboratory Analytical Table
"How to Interpret A Water Analysis Report"
"Disinfection of Home Wells and Springs"

cc:

Stephanie Wharton
Sean VanFleet
Sue Herzing
Complaint File # 313289