

William A. Wells
1537 Polo Grounds Road, Charlottesville, VA 22911
(434) 973-2819

February 9, 2016

Thomas Jefferson Health Department
1138 Rose Hill Drive, Charlottesville, VA 22903

Re: Public water

To whom it may Concern,

I have been living on this property since birth. My parents had permanent deeded rights to the natural spring that was located across Polo Grounds Rd that is now owned by Montgomery Ridge Homeowners/Subdivision. When Montgomery Ridge was being developed, we noticed about a 50% drop in the amount of water coming from that spring. Around 2012, D & D Lawn Care was removing large dead trees and drove over and around the spring damaging the water source even more.

The well I have dug for 1537 Polo Grounds is rich in iron. I have had several water treatment systems installed by Culligan that is not taking care of iron problem. This is my 4th system, the iron clogs the system and burns them up.

The water is not drinkable by human or pets; Can not wash clothes because of staining them; Water out of faucet is reddish in tint; stains tubs and toilets and leaves a orange tint to my skin; and a trouble odor to it.

I have to buy water for myself and animals; take my laundry to the laundry mat. I have spent thousands of dollars on water, replacing toilets, tubs and fixtures, replacing clothes; going to a laundry mat and cleaning products to get rid of stains.

I have had Wilson Well Drill out to locate a new location for a well however he said a new well would not help. This area is rich in iron. I have septic fields not public sewer so that limits me to where a new well could go because of setbacks to buildings, drain fields and fuel tanks.

Montgomery Ridge has granted me an easement for a waterline to be on their property. I have been in contact with Albemarle County Service Authority and Thomas Jefferson Health Department. Both are working with me to get on public water.

I would benefit tremendously being on county water.

Thank you,



William A Wells

Enclosed: True North letter ; Doctors letter



118 Buckingham Circle, Charlottesville, VA 22903

February 9, 2016

WA WELLS EXCAVATION
1537 Polo Grounds Road
Charlottesville, Virginia 22911

Re: Iron problems in groundwater well

Dear Mr. Wells,

This letter is written to offer an opinion regarding your persistent iron problem in your groundwater well and to recommend a solution.

Background

The site is located at 1537 Polo Grounds Road in Albemarle County, Virginia (Figure 1). It is understood that your present drinking water well, while adequate in quantity, possesses very high iron content. It is also understood that central water supplied by the Rivanna Water & Sewer Authority (RWSA) is present to the north of Polo Grounds Road.

Geology, Hydrogeology and Groundwater Quality

In most cases, groundwater quality problems can be attributed directly to the rock formation in which the water is derived. According to the United States Geological Service (USGS) and the Virginia Division of Mines & Minerals (DMME), the site is underlain by the Lynchburg Group of rocks. In Albemarle County the Lynchburg is subdivided into four of five separate units (depending upon location), each representing a distinctive environment of deposition and/or geochemical signature.

According to the Geologic Map by USGS and DMME your property is underlain by a belt of the Lynchburg (Zlm) rocks that includes graphitic phyllites, black graphite, and pyrite bearing phyllites and slate (Figure 1). Pyrite, an iron bearing sulfide mineral, is so plentiful in this formation that the Ohio Sulphur Mining Company maintained a mine on Proffit Road, probably for the production of chemicals used in the paper industry or for sulphuric acid.

Conclusion & Recommendation

The presence of graphite and pyrite is the likely cause of the iron in groundwater supply well. Based on the geology maps, your property is dominated by an iron-rich formation of stone. The

subdivision of the Lynchburg rocks is gradational and imprecise (except in the case of the amphibolite units).

Since drilling another well could result in a similar water chemistry given the ubiquitous nature of the formation and the uncertain dividing lines between the different units of the Lynchburg Group, True North recommends that you make efforts to obtain your water from the RWSA given the proximity of the supply.

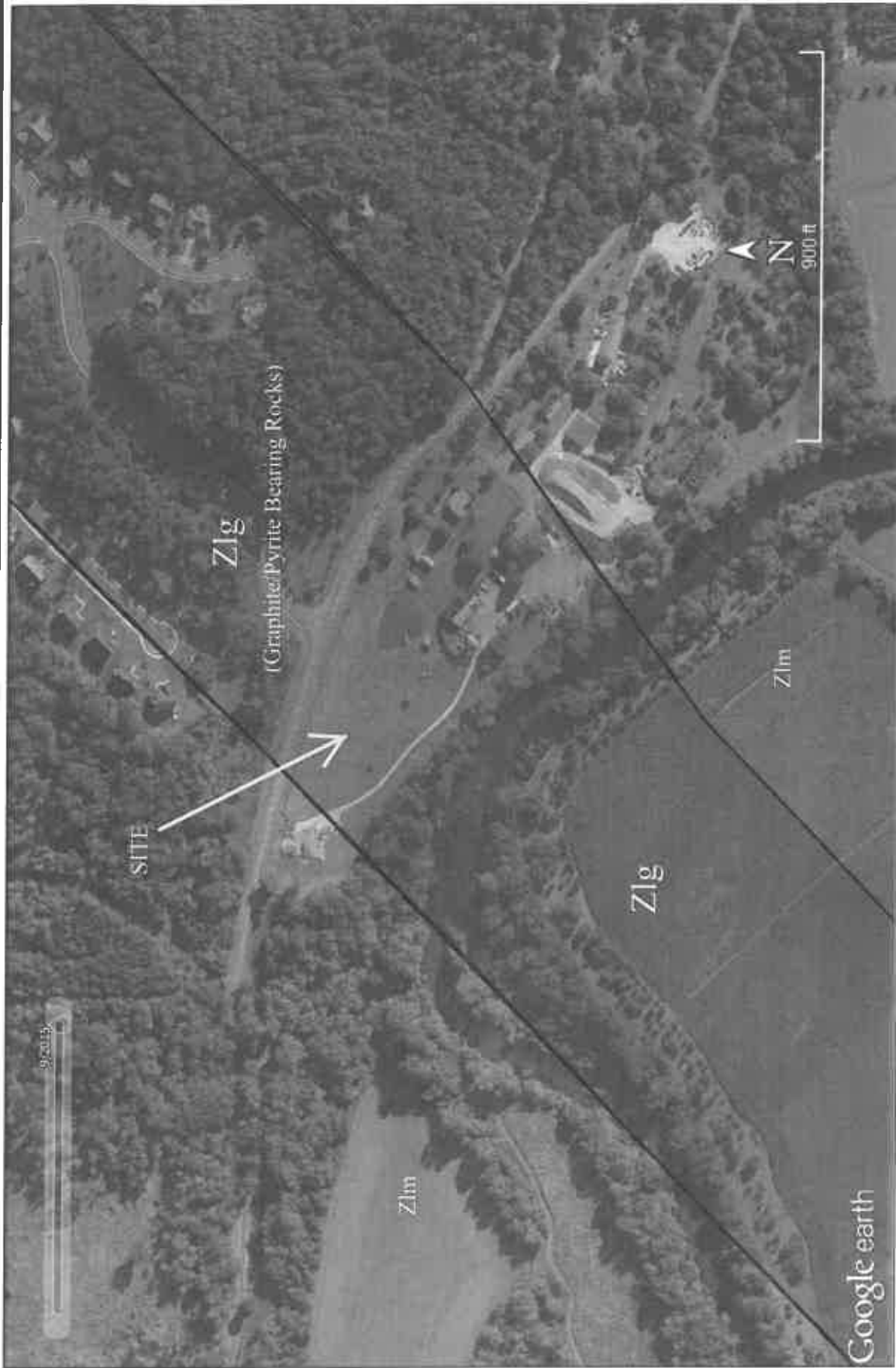
If you need additional information, or if we can be of further service, please do not hesitate to contact us at your earliest convenience.

Sincerely,



Vincent Day, PG
Geologist





Geologic and Site Location Map

WA WELLS EXCAVATION

Zlg: Lynchburg Group (Graphite Bearing)

Zlm: Lynchburg Group (Meat Graywacke)

Source Map: GoogleEarth & USGS/DMME

FIGURE

1

TRUE NORTH
Environmental, Inc.



Charlottesville Family Medicine

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Lissette Kinsella, N.P.

February 2, 2016

Re: William A. Wells
1537 Polo Grounds Rd.
Charlottesville, VA 22911

To whom it may concern:

Mr. Wells's water at his home is not suitable for drinking or bathing.

If you have any questions or concerns please contact my office at (434)973-1831.

Sincerely,

Kiyoko Asao-Ragosta, M.D.