

# **Hughes Borehole Pictorial – Natural low-pH Fe(II) Oxidation**

Portage, Pennsylvania  
October 2006 – May 2008

October 2006



10/11/2006

October 2006



**Hughes Borehole discharge:**  
800 – 1,500 gallons per minute

10/11/2006

October 2006



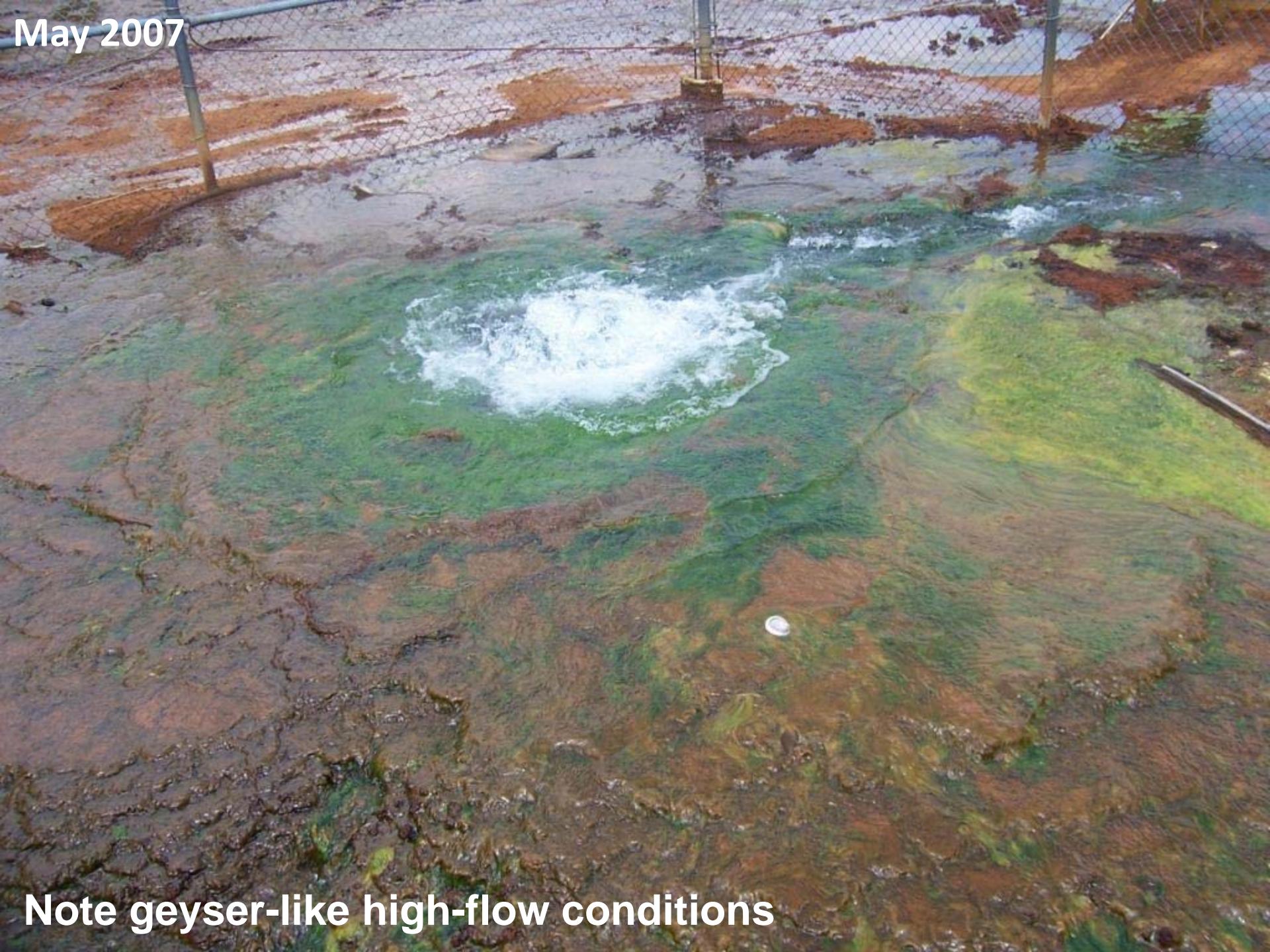
10/11/2006



October 2006

10/11/2006

May 2007



Note geyser-like high-flow conditions

May 2007



May 2007



May 2007



May 2007



December 2007



12/21/2007

December 2007



12/21/2007

December 2007



12/21/2007

An aerial photograph of a wetland area. The landscape is characterized by a mix of dark, reddish-brown soil or mudflats and patches of green vegetation, likely algae or small plants. A prominent feature is a white flag standing upright in the center-left portion of the image. The flag has some markings, possibly letters or numbers, which are not clearly legible. In the background, there are several small, irregularly shaped white patches, which could be snow, ice, or reflections on the water surface. The overall scene suggests a coastal or estuarine environment at low tide.

December 2007

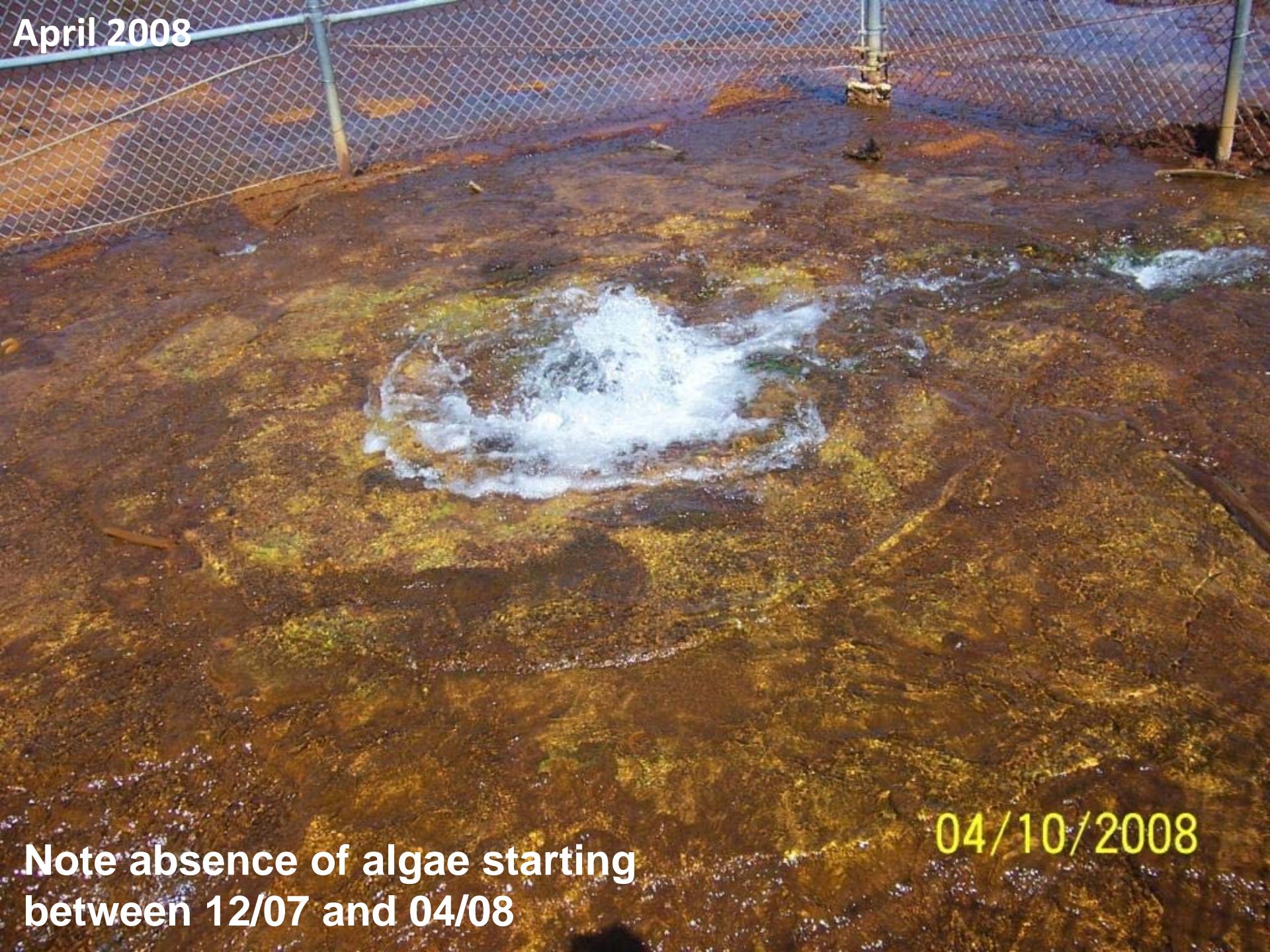
12/21/2007

December 2007



12/21/2007

April 2008



**Note absence of algae starting  
between 12/07 and 04/08**

04/10/2008

April 2008



04/10/2008

April 2008



04/10/2008

April 2008



04/10/2008

May 2008



05/28/2008

May 2008



05/28/2008

May 2008



05/28/2008

May 2008



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May 2008



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