

## Wickham, Jerry, Env. Health

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**From:** Robert Flory [rflory@aeiconsultants.com]  
**Sent:** Tuesday, February 02, 2010 9:17 AM  
**To:** Wickham, Jerry, Env. Health  
**Subject:** RO 02930 - Allen Property - 324 Martin Luther King Jr. Way - Update

Jerry,

A short update so you know where we are with the infusion.

We've finished infusing 8,000 gallons of peroxide into the IW wells at the site last Friday.

DO in the wells on Monday Feb 1 was as follows:

IW-1, IW-2, IW-3 are all 40+ mg/L.

MW-3 which has been running 0.8 mg/L in the past, came up to 2 mg/L (about the background in the non-impacted wells - MW-1, MW-2, and IW-1) after the first 2k infusion into the other wells (Jan 8). On Feb 2 MW-3 was 20 mg/L, so the infusion front got that far.

My experience with a site in Pittsburg, suggests may take 60 to 90 days for the DO levels to drop back. There I started with 22k TPHg and 26K TPHd and had 97% reduction in both in 90 days. No TPHg rebound, minor TPHd rebound.

Now we wait and see if we knocked more hydrocarbons loose, like the previous injection did.

I'll check DO and sample two wells (MW-3, IW-3) every two weeks this month. I'll do a regular quarterly as soon as I see some real drop in the DO or hydrocarbons. I suspect that will be in 30-45 days. I'll get a report out as soon as the lab data comes in.

If we have to do another round, we'll use 0.5%. The wells would accept 1-3 gallons/min of water, but once the DO got above saturation the infusion flow rates dropped dramatically. Even IW-1 the clean well appeared to be forming a bubble block. Probably due to the limonite coating on the yellow sand. In theory, infusing 100 mg/L peroxide solution would work.

IW-3 went from 3 gal/min to 0.126 gal/min. Despite the slowness I'm satisfied with the amount of peroxide we got in to the formation.

**Robert F. Flory, P.G.**  
*Senior Geologist*

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