

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

INTEROFFICE COMMUNICATION

August 19, 2004

TO: Sybil Kolon, Project Manager
Remediation and Redevelopment Division
Jackson District

FROM: Leonard Lipinski, Senior Geologist
Remediation and Redevelopment Division
Jackson District

SUBJECT: Gelman Sciences, Inc.
Wagner Road Area Work Plan

I have reviewed the work plan, dated August 1, 2004, prepared by PLS. I think the work plan is adequate with the following modifications. The main problem I see with it is the fact that all three of the test borings will be drilled with hollow stem augers with the vertical groundwater samples obtained with a simulprobe. I think drilling and sampling two of the borings by this method is fine. However, I believe that at least one of the three borings should be drilled by roto sonic drilling. This drilling method will provide continuous cores that can be described and correlated with the response from the gamma logs. This should be helpful when using the gamma logs for interpretation of the geology and provide a better understanding of the geology. Although it is not necessarily part of this work plan, I think it is important to point out that it is likely that we would want to see at least one or two additional roto sonic borings drilled as part of the Unit E investigation. This additional roto sonic drilling would probably be in the area of Maple Road and/or near the leading edge of the plume.

Due to the additional water that is likely to be used during the roto sonic drilling, the vertical groundwater samples should not be obtained with a simulprobe. The groundwater can be sampled using either a temporary well or a temporary screen and packer assembly. The amount of water used to advance the drill casing should be tracked so that at least that quantity of water can be removed before the actual vertical groundwater sample is obtained.

They propose to monitor water levels during the aquifer performance test using either electric tapes or a combination of electric tapes and pressure transducers equipped with data loggers. While it is possible to monitor water levels using just electric tapes, I think it is preferable to use the pressure transducers to monitor the pump well and the observation wells in close proximity to the pump well. Also, when conducting the pump test, I think it would be useful to also monitor the water level in MW-30D and MW-43.