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NAS WHITING FIELD
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LETTER REGARDING ADDITIONAL COMMENTS ON HYDROGEOLOGIC ASSESSMENT
AND GROUNDWATER MONITORING PLAN NAS WHITING FIELD FL
10/25/1994
FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENT

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October 25, 1984

Captain C. L. Lavinder
Commanding Officer
NAS Whiting Field
Milton, Florida 32570

Dear Captain Lavinder:

This letter provides comments on the remaining sites listed in the June 26, 1984 Hydrogeologic Assessment and Ground Water Monitoring Plan for the U.S. Naval Air Station, Whiting Field.

The Department has reviewed the plan and considers it very thorough; however, it is felt that the Crash Crew Training Areas and the site of the 25,000 gallon aviation fuel spill in 1972 warrant further investigation. Site specific data should be gathered and analyzed to verify the hypotheses presented for not studying these sites further.

Also, the designation and exact location of monitoring or test wells should be made clear. The placement of the wells in the first saturated unit may not provide adequate monitoring. Due to the evident "perched water table" the Department feels that it is unsatisfactory to use inferred directions of ground water flow. The general or regional flow can be inferred, but each site should be more specifically studied.

The flow in a perched water table may be different from the flow of the sand-and-gravel aquifer. Therefore, proof that a confining layer exists under each site (through use of permeabilities) and that it extends throughout each site is necessary. The following should be determined:

- a) Flow direction in the first saturated unit,
- b) First confining unit's ability to leak,
- c) Flow direction below first saturated unit.

From the information provided, it is not apparent that the proposed monitoring or test wells are indeed downgradient.

Enclosure (1)

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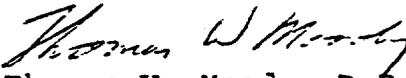
Captain C. L. Lavinder
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The production well W-S2 (South Well) is 120 feet from the dry well discharge at the Battery Shop. This well is screened in the bottom of the sand-and-gravel aquifer. Since transmissivity is 37,000 gpd/ft , the flow direction of water off of clay lenses is unknown, and downward leakage of perched water through clay lenses is very possible. The Department feels that this well should have been included in the monitoring network. It also appears that this well could create a cone of depression that would be significant.

Further review of the ground water monitoring plan will be held in abeyance until the data described above has been evaluated and an initial sampling and analysis has been accomplished. The Department considers Whiting Field to still be in the assessment phase and therefore, a routine ground water monitoring program in accordance with Florida Administrative Code Rule 17-4.245 may not be necessary at this time.

Upon receipt of the information requested above, the Department will make the determination as to what further monitoring and analysis will be required.

Sincerely,


Thomas W. Moody, P.E.
Special Programs Supervisor

TWM/wkf