Battelle
Pacific Northwest Laboratories

Project Number_____

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Date April 30, 1984

To J.R. Raymond

From P.J. Mitchell

Subject PROPOSED DATA BASE STRUCTURE FOR BWIP BASELINE MONITORING

RE: Request for input to your letter proposal to BWIP for funds for planning of monitoring work.

It is proposed that water-level data for approximately 35 new wells be stored in the Hanford Ground-Water Data Base, which currently employs CIRMIS as the data base management system. This addition of new wells will not require any funding. A required change in the structure of the data base is an additional entry indicating whether or not the water level was measured in the confined or unconfined aquifer. At least two manweeks of effort plus computer time will be needed here.

The disposal data will be stored in a separate data base currently being designed to identify disposal and pumping locations with digitized areas or points on a global coordinate system. Volumetric flow rates over time (allowing for changes with time) will be stored for each of the disposal and pumping locations. Separate routines must be developed for each ground-water flow code to access the data for input purposes. The design of this data base system has been funded by the Ground-Water Surveillance Program. Funding is needed for actual data storage which will involve digitizing of disposal sites (past and present) and terminal input of disposal and pumping rates through time. Funding needed here depends largely on the volume of data to be stored.

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