

OFFICE MEMORANDUM

TO : File

DATE: September 2, 1977

FROM : Thad C. Stevens, H-8 *TS*

SUBJECT : PROPOSAL FOR STANDARIZATION OF MEASURING TECHNIQUES USED FOR MOISTURE MONITORING HOLES.

SYMBOL : H8-77-664

OTab General
~~XXXXXXXXXX~~

The specific problem that has been identified with moisture measurements is that a measurement taken at a specific depth does not reflect the actual depth as measured from the surface. The reason for this problem is because the PVC pipe liner extending above the surface is not correlated to the depth numbers on the probe cable.

To solve this problem the following suggestions might be useful:

- 1) Standardize the height of above surface PVC pipes on all monitoring holes.
- 2) Correlate 1) with probe cable numbers.
- 3) Additionally, useage of metric system.

In reference to 1) above Willy V. Abeele has collected data with the neutron moisture probe indicating that depths less than 40cm produces an unreliable measurement. However, at depths of 50cm or greater measurements ~~is~~ reliable and accurate beyond any doubt. Therefore, it would be wise to chose 50cm below the surface as the first measuring point. To accomplish this the above surface PVC pipe dimensions shown in Figure 1. should be used. Since the probe cable has to be recalibrated, it would be a prime oppertunity to convert the cable to metric. This would greatly simplify calibration as well as field measurements.

TCS:tj

*All information here to be kept
out of the open access to the public*



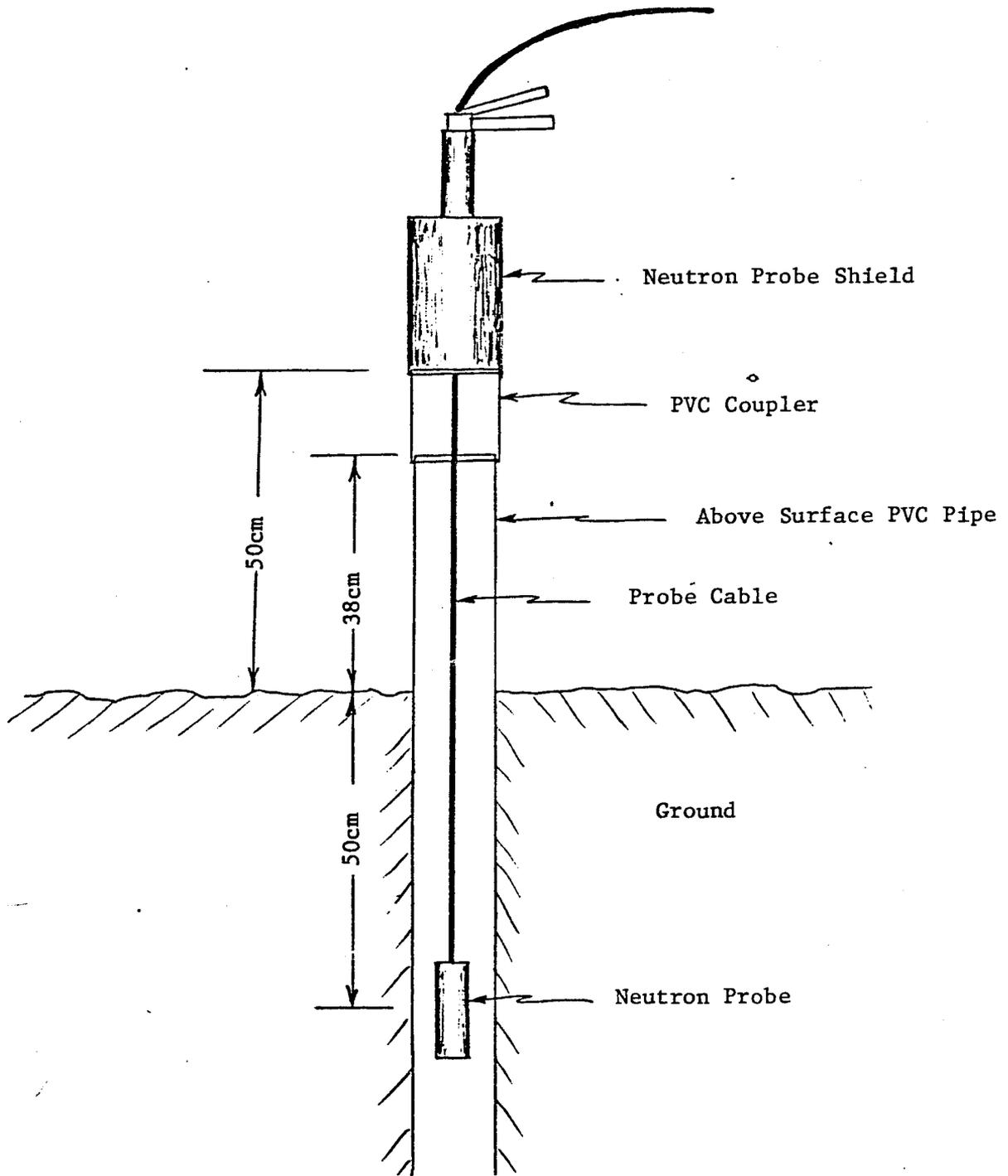


Figure 1. Above surface PVC pipe dimensions.