

1961
This was a preliminary study.

The 1961 infiltration study was similar to the 1960 one. ~~Two~~ cubic meters (6400 gal) per day of raw waste went into Absorption Bed 1 from June 30 to August 1. From August 2 through August 26, 26.9 m³ (7100 gal) per day of tap water was applied. Sampling continued for an additional week after the application of tap water.

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Samples were collected, at each sampling depth, continuously during each day until 50 mls was obtained or 8 hours had elapsed. Five daily samples were then composited and used as the weekly sample.³⁸ (See Table T-7.)

no indent ← The objectives of the present study were to determine if and where water moved beneath a disposal pit and to ascertain if waste products moved with the water.⁵¹

The 1961 study was reported by both the USGS and LASL. The USGS report⁵¹ stated

[1]...that waste water movement may have changed some of the physical properties of the tuff, such as pore and particles sizes. [2] Some of the wastes discharged in the east end of the disposal pit may have moved laterally through the sand material (Bed A on Sketch C and D, Fig. T-10) along the sloping top of the tuff and then vertically into the tuff.

[3] The lower moisture values...seem to coincide with areas of tuff in which the greatest amount of staining had occurred. The stained areas may indicate a different stage of weathering than that at the clay layer due to alternate wetting and drying cycles....[4] The tuff is extensively jointed (Fig. T-10) and the tendency for a liquid to move through the joints is indicated by higher gross alpha count of a 1000 per minute per dry gram at the 20' depth.... [5] [There were] several open joints...below a depth of 25 ft. Waste

water had penetrated the fineline joints to depths of at least 22 feet and subsequently altered the tuff adjacent to the joint as much as one-quarter to one-half inch. Clays developed locally and impeded drainage so that the joints retained water to the extent that the moisture content of the tuff was locally as much as 35%....

~~Fig. 23, profile 1.~~ [6]...Water in the low moisture range apparent

Indent and single space as above

