

REPORT ON UNDERGROUND DRAINAGE -CALCUTTA POLICE STATION,CALCUTTA TOWNSHIP.

This locality was inspected on 4/11/53.

REQUIREMENTS. It is intended to instal a septic tank at the Police Station, and to dispose of the effluent underground.

EXISTING CONDITIONS.

The Station is within the township of Calcutta, situated on a flat alluvial plain overlying a basement of older metamorphic rocks. At present, all the ablutions water etc. from the house is discharged into a 6 ft. pit in the backyard, and this has been functioning without trouble for some years. Almost immediately opposite, in the main street, there is an existing septic tank on the property of R. J. Kranz, which successfully discharges its effluent into a pit also 6 ft. in depth.

A 13 ft. well, also in the Station yard, has a small pump and electric motor mounted on it, and provides a quite adequate supply of water for garden purposes. There is also a bore 19 feet deep on a block about 200 yards south-east (R. E. Lehmann) which was pumped in my presence for some 30 minutes at 750 gallons per hour.

It is considered that drainage can be satisfactorily achieved by means of a pit 6 feet to 8 feet deep. No ground water is used in the township for domestic purposes, and the question of possible pollution does not seem to have any importance.

CONCLUSIONS & RECOMMENDATIONS.

The Architect-in-Chief could be advised that drainage for a septic tank should be adequate if a 6' to 8' pit is constructed in the backyard of the police station, as far from

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the existing drainage gump as is convenient to the proposed layout - a suggested minimum distance being 20 to 30 feet.

The existing gump continue to be used for the disposal of household effluent other than from the septic tank.

H. Russell
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(SENIOR GEOLOGIST)

HYDROLOGY

EFO'D:AK.
17/11/53.