LYTCHETT MATRAVERS PARISH COUNCIL
TRIAL HOLE AT YOUTH HALL SITE 2.7.24

Purpose of excavation was to establish if storm water could be discharged into anticipated running sand layer below clay.

Peter and I attended at the excavation/boring of a trial pit at the YH 0730hrs 2nd July 2024.
Weather was fine and dry with no significant rain for the last week.
Equipmnt - Tracked 1.5T Excavator (Express Hire) with operator.
Operator was briefed about purpose of excavation and location of sw sewer + probability of live electric, gas and water incoming services somewhere below the grassed surface. Agreed procedure was to carefully scrape excavation down to c800mm in anticipation that deepest service would be water pipe at c750mm. then to go as deep as possible with 300mm diam auger.

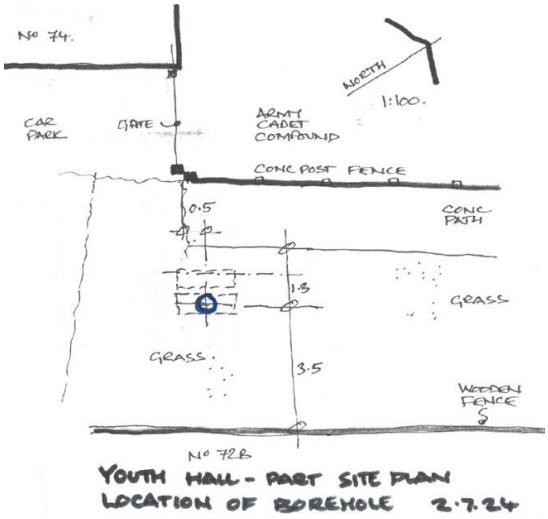
Excavated trench adjacent concrete path to c500mm where yellow 'Caution' tape (indicating either gas or electric service) was uncovered.
Then started second trench 500mm further away from path.

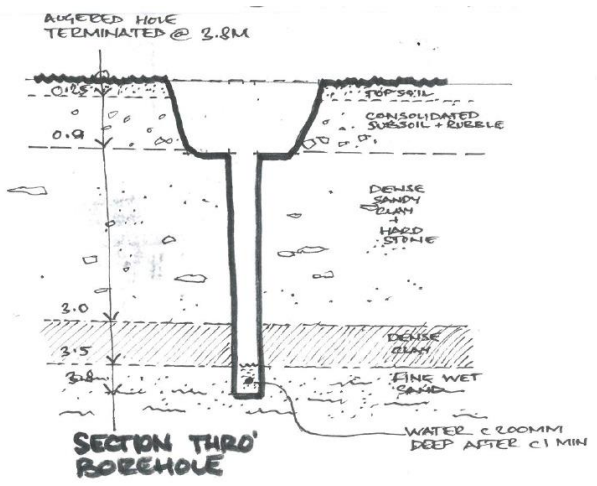
c250mm topsoil – then c650mm very hard packed subsoil with occasional flints and broken bricks.
At 900mm depth very slim likelihood of any buried services so reverted to 300mm diameter auger.
c2100mm firm dry sandy clay with occasional very hard stone obstructions.
At 3m depth very dense grey/white clay layer c500mm thick.
At 3.5m fine wet sand.
Auger reached max depth at 3.8m.
Within c1minute, water ponded c200mm deep at foot of borehole.

3 x Photographs (See Appendix A – 3 page) taken to show location, spoil material on auger + water at foot of borehole.

Excavations backfilled and levelled. Work completed by 0945.

Location of borehole with indicative cross section shown below





Conclusion – Opportunity to drain storm water from car park into lined borehole.

Ken Morgan (Cllr) 3.7.24

APPENDIX A



Photograoh 1 – Location of trial pits. Furthest trench , adjacent footpath, aborted at c500mm depth due to underground services. Closest trench excavated to 900mm then deepened with 300mm auger down to 3.8m depth.



Photograph 2 – Auger and spoil after completion of borehole;e. Note firm yellow sand found over dense grey/white clay over layer of very wet fine sand – note auger blade.



Photograph 3 – Borehole after completion. Note water reflection 3.6m deep.