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### **Mt Magnet WWTP Spray-field - Flood Assessment**

Mt Magnet Camp upgrades necessitate the improvement of the waste water treatment system including treated water discharge. This memo presents an assessment of the flood hazard to the proposed spray-field.

The camp is located at the northeast outskirts of Mt Magnet township which is situated in an uplying valley. The main creek line which bisects the town rises in breakaway country 11 km to the north. The spray-field is located east of a minor tributary which joins the main creek south of the town (Figure 1).

Aerial imagery suggests that the main creek flood plain extends across to the eastern tributary, such that continuous sheet flow between the two creek-lines could occur under extreme flood conditions (Figure 2). The ground elevation along the cross section line (west to east across the north side of the town) is shown on Figure 2 is shown as a profile in Figure 3. The flood plain is at an elevation of 426 m AHD in that section line.

The lower western side of the spray-field sits 1.5 m above the flood plain level and will not be prone to inundation. Perimeter bunding will provide a further contingency against any stormwater ingress.

Figure 1 – Natural Drainage

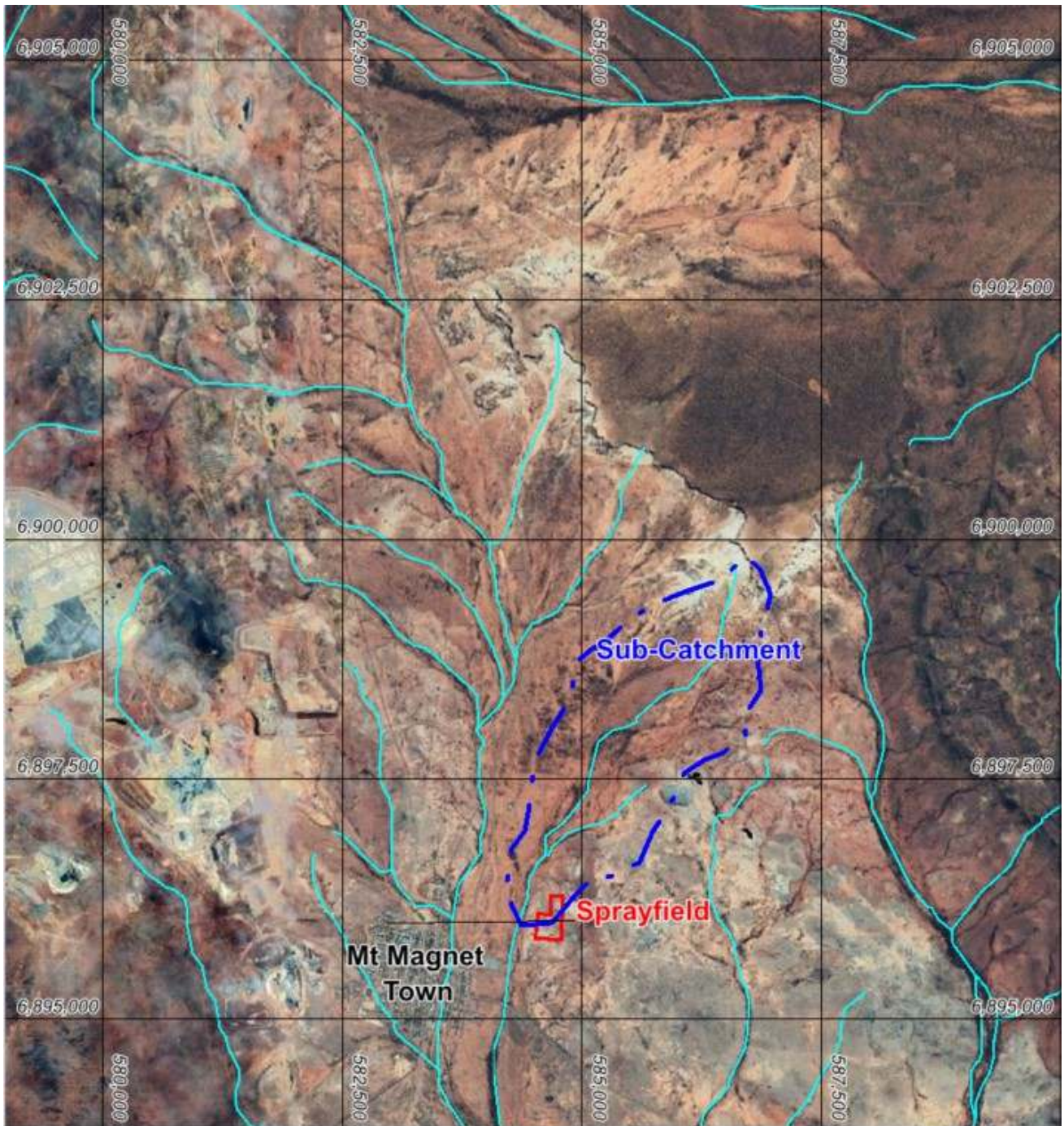


Figure 2 – Site Layout and Cross Section Line

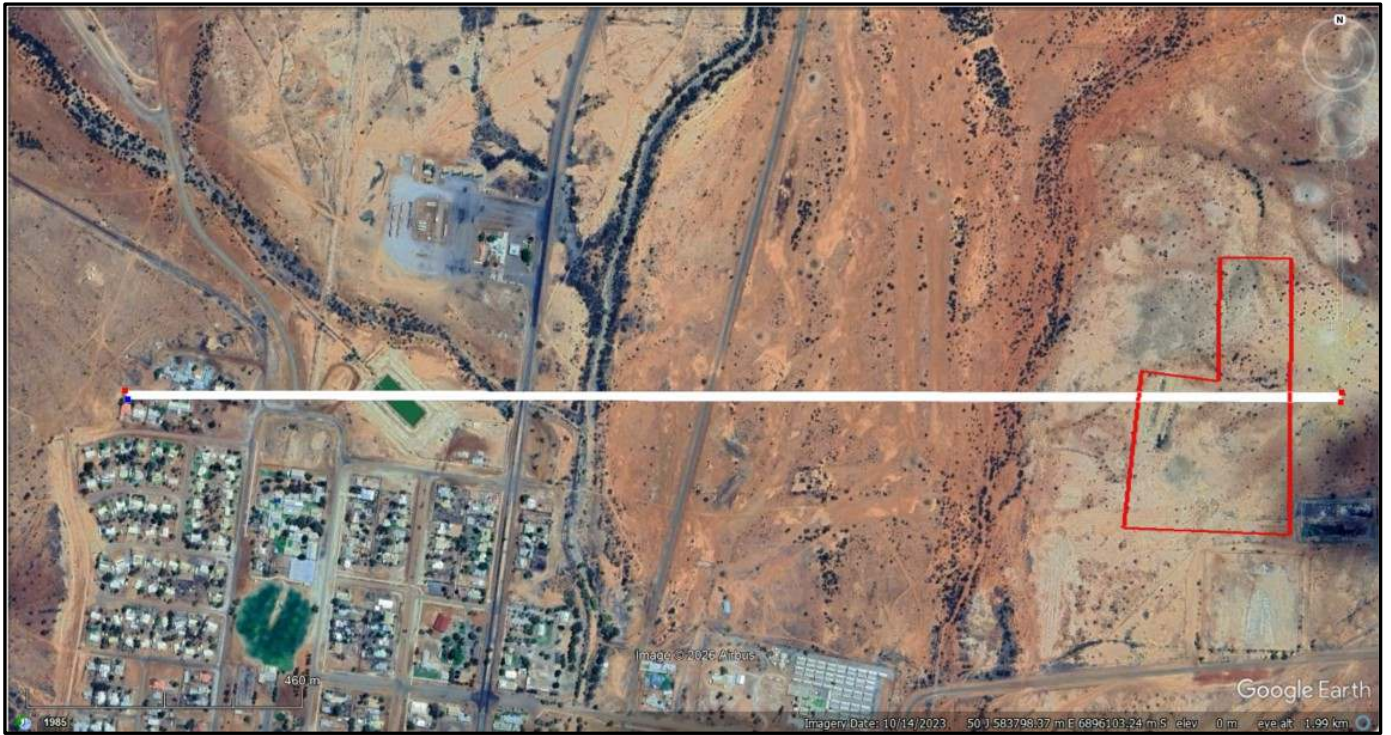


Figure 3 – Ground Elevation on Section Line

