


# Case Study



A photograph of a stream with a sandy bedload. The water is clear, revealing the sand on the bottom. The stream is bordered by a bank of green grass and soil on the left. A small clump of grass is visible in the water on the right. The water surface shows ripples and reflections of light.

Stream bedload is sand.

A photograph showing a wide expanse of light-colored, sandy soil. The soil is unevenly textured, with small clumps of green grass or weeds scattered across the surface. In the lower-left corner, there is a white rectangular box with a black border containing text. The right edge of the image shows a portion of a dark, textured object, possibly a tire or a piece of machinery, and a reddish-brown vertical shape, likely a wall or a fence.

Spoil spread out from recent ditch dredging includes sand, silt, cobbles.



30" deep soil sample using tile spade shows black, high carbon layers.




At the bank, red mottled sandy material is showing, although the material ribbons.





Along ditch bank about 1' above base flow is saturated, shows some red mottles above that location.

A vertical metal probe is inserted into the ground, surrounded by soil and sparse vegetation. The probe is a thin, dark rod extending from the top of the frame down to a point in the soil. The ground is a mix of light-colored soil, small stones, and some green grass blades. There are some small holes or indentations in the soil around the base of the probe.

Tile probe brings up water droplets from 36" depth.



Soil surface cracks can be a sign of hydric soil...but this is spread spoil.



View of tile outlet from opposite bank. Note recent dredging.





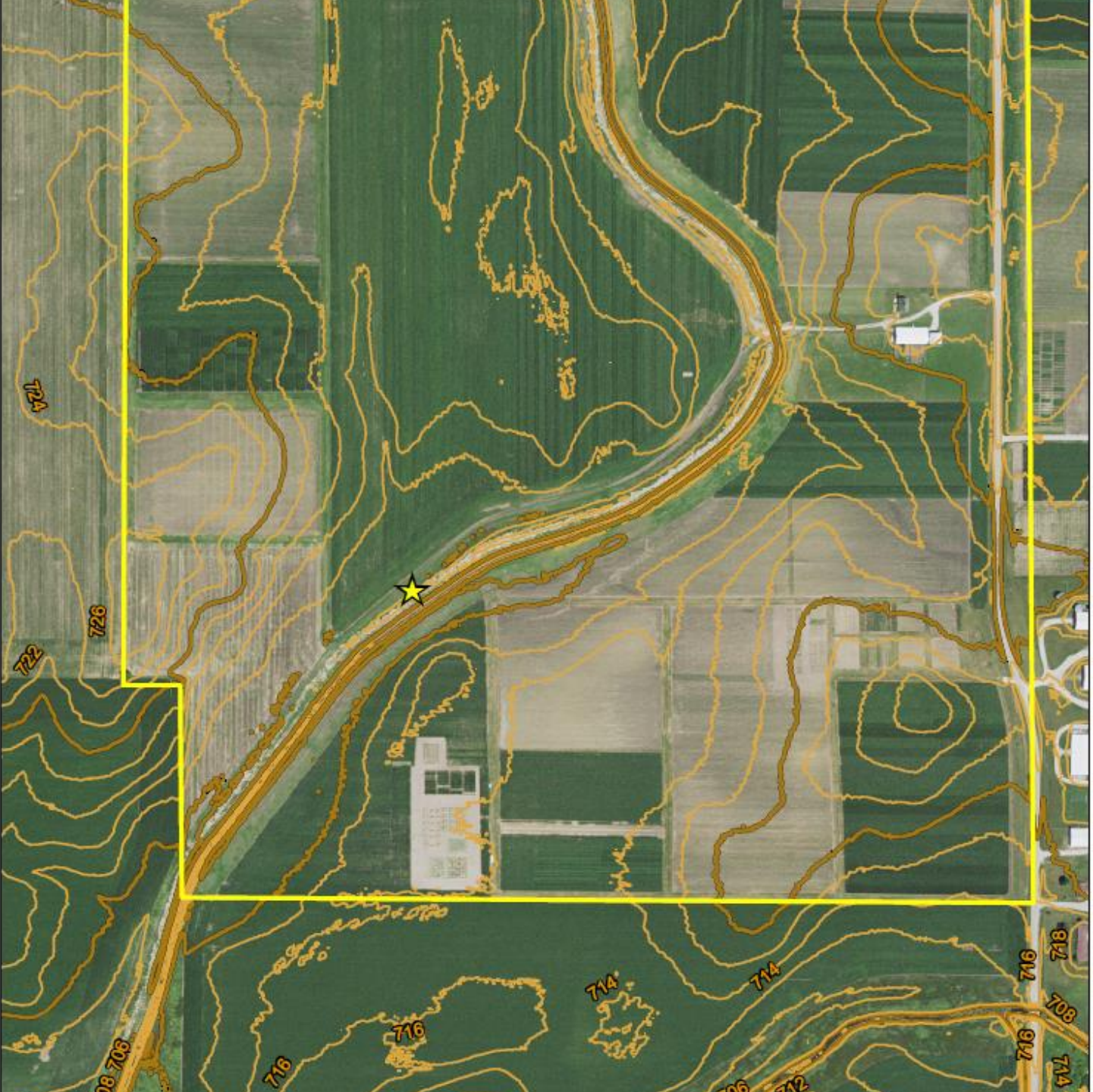
Piece of 8" clay tile found in the ditch adjacent to tile outlet. Any other tile present?



Looking downstream, are these banks stable?



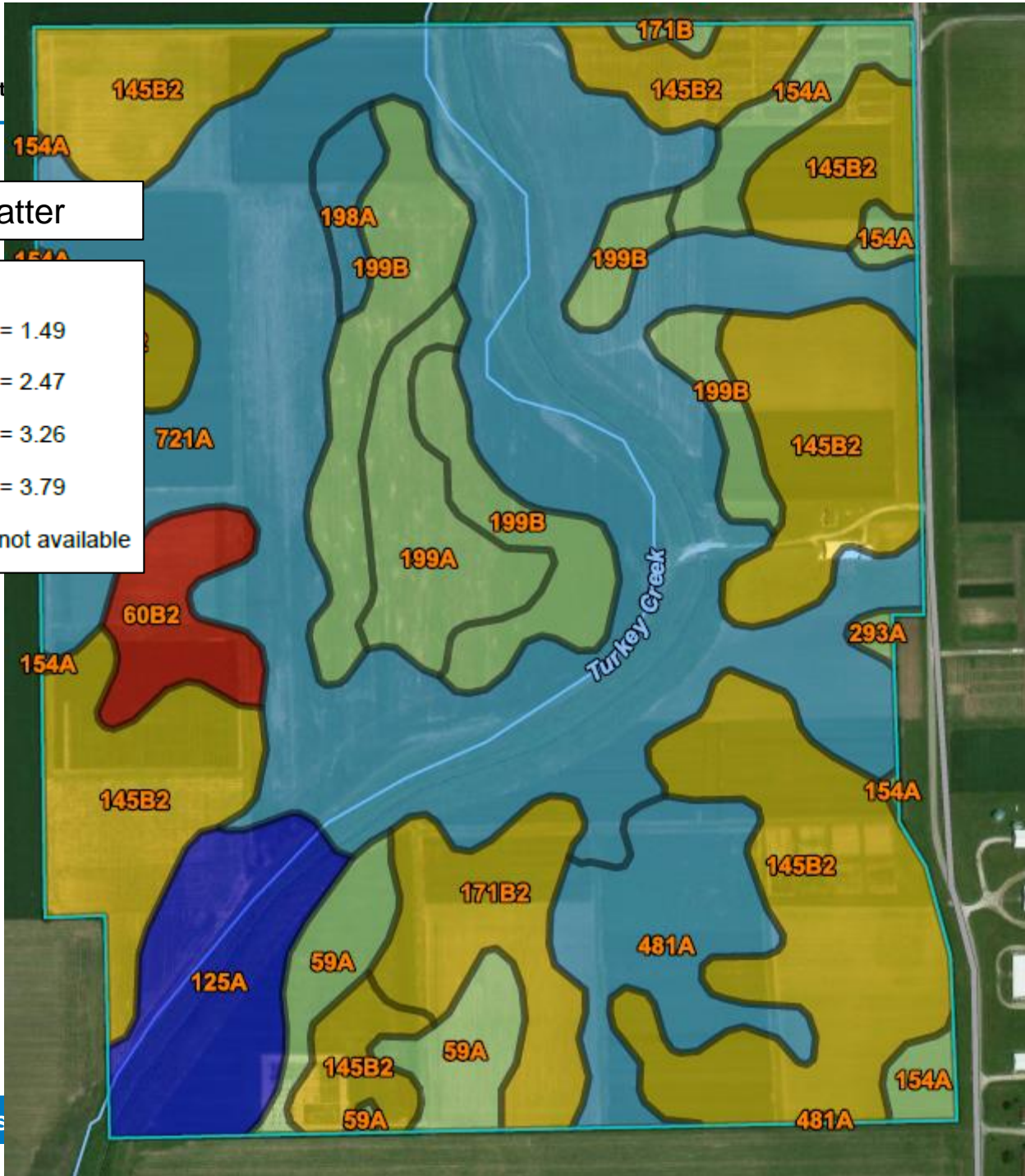






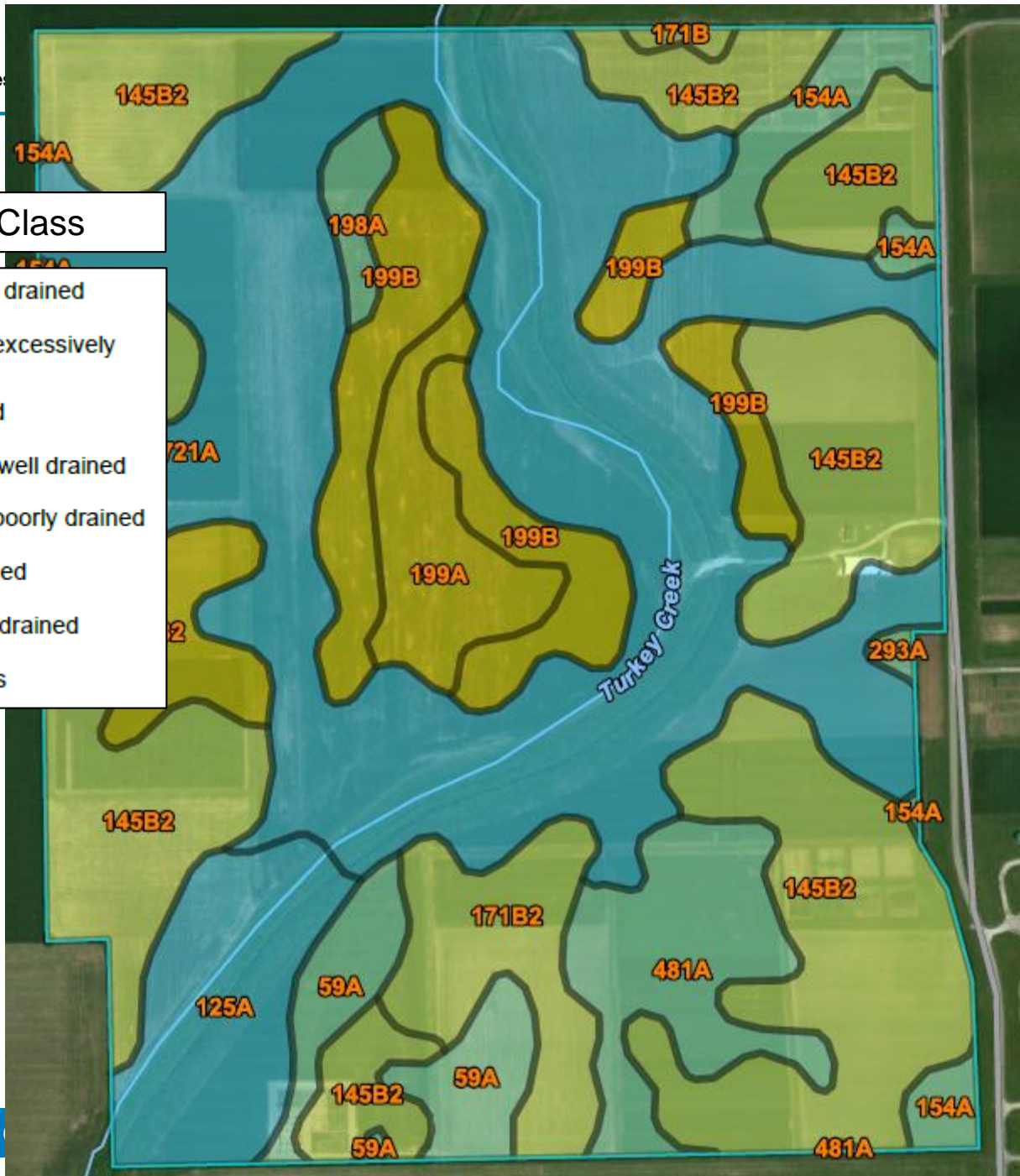
### Organic Matter

- $\leq 0.70$
- $> 0.70$  and  $\leq 1.49$
- $> 1.49$  and  $\leq 2.47$
- $> 2.47$  and  $\leq 3.26$
- $> 3.26$  and  $\leq 3.79$
- Not rated or not available



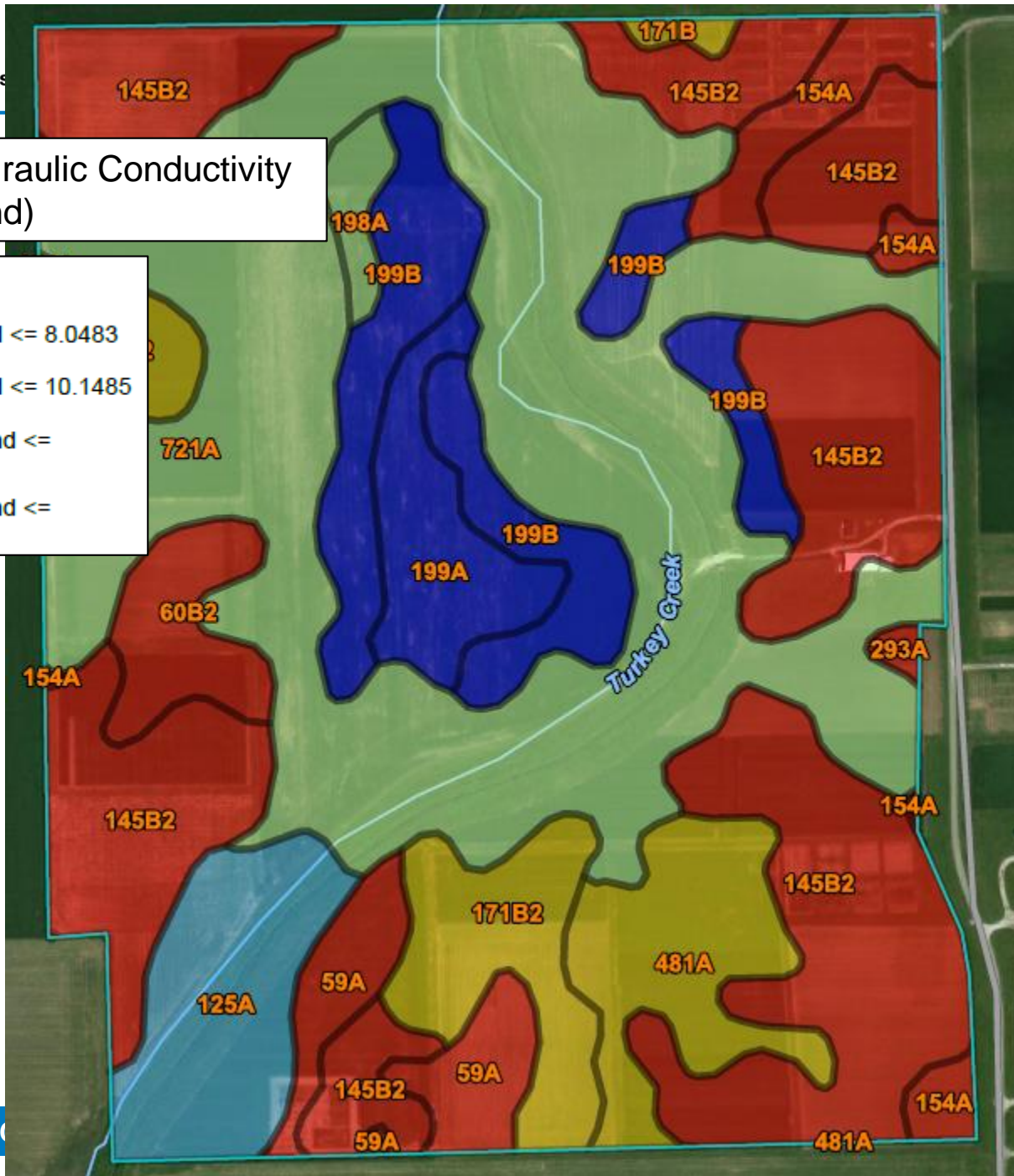
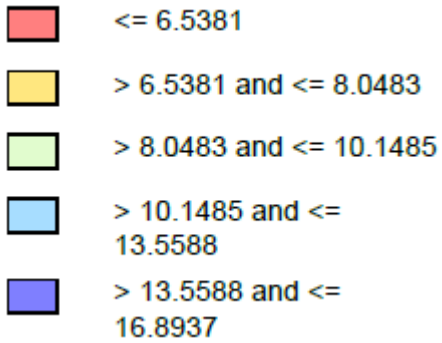
### Drainage Class

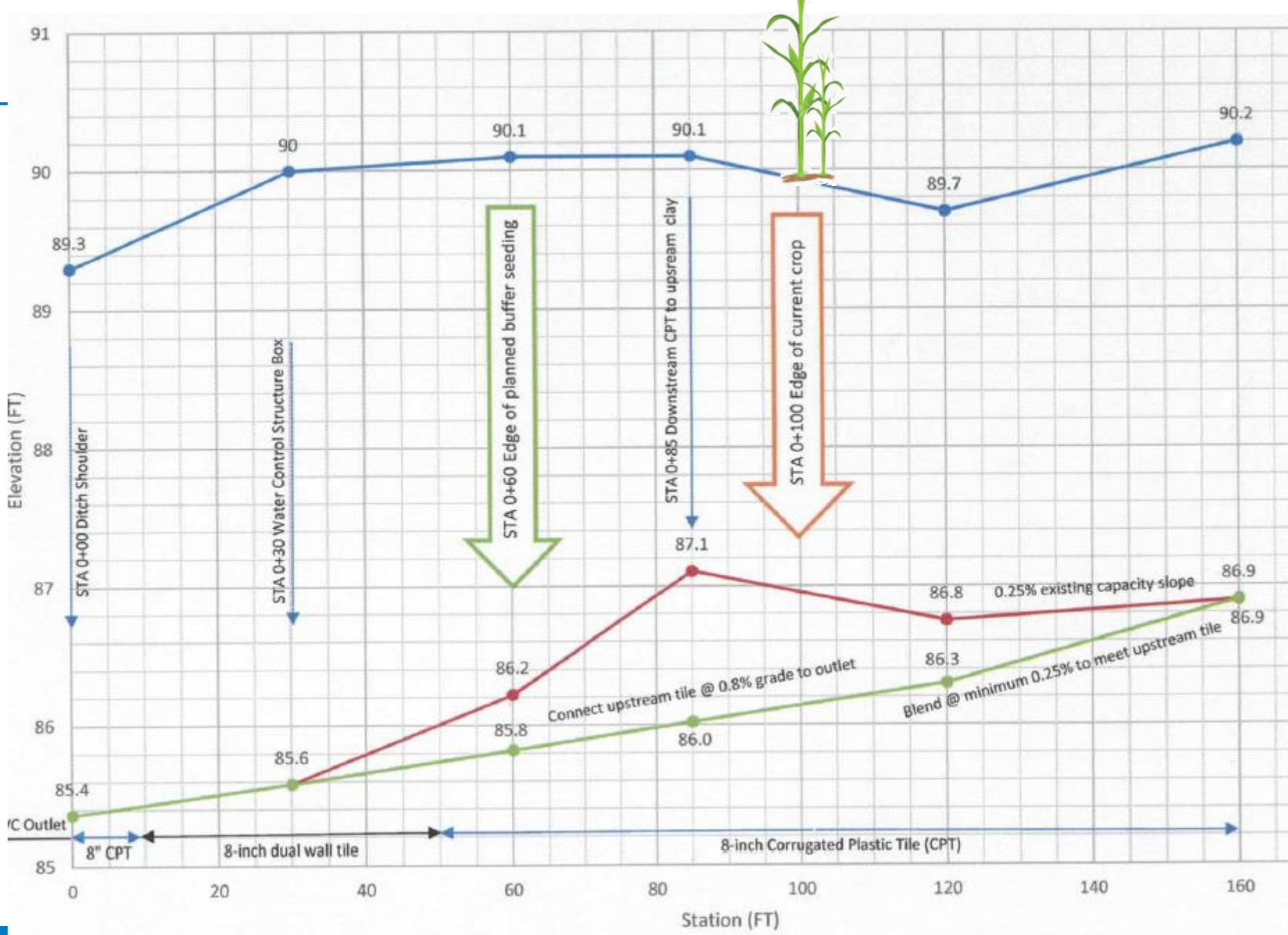
-  Excessively drained
-  Somewhat excessively drained
-  Well drained
-  Moderately well drained
-  Somewhat poorly drained
-  Poorly drained
-  Very poorly drained
-  Subaqueous



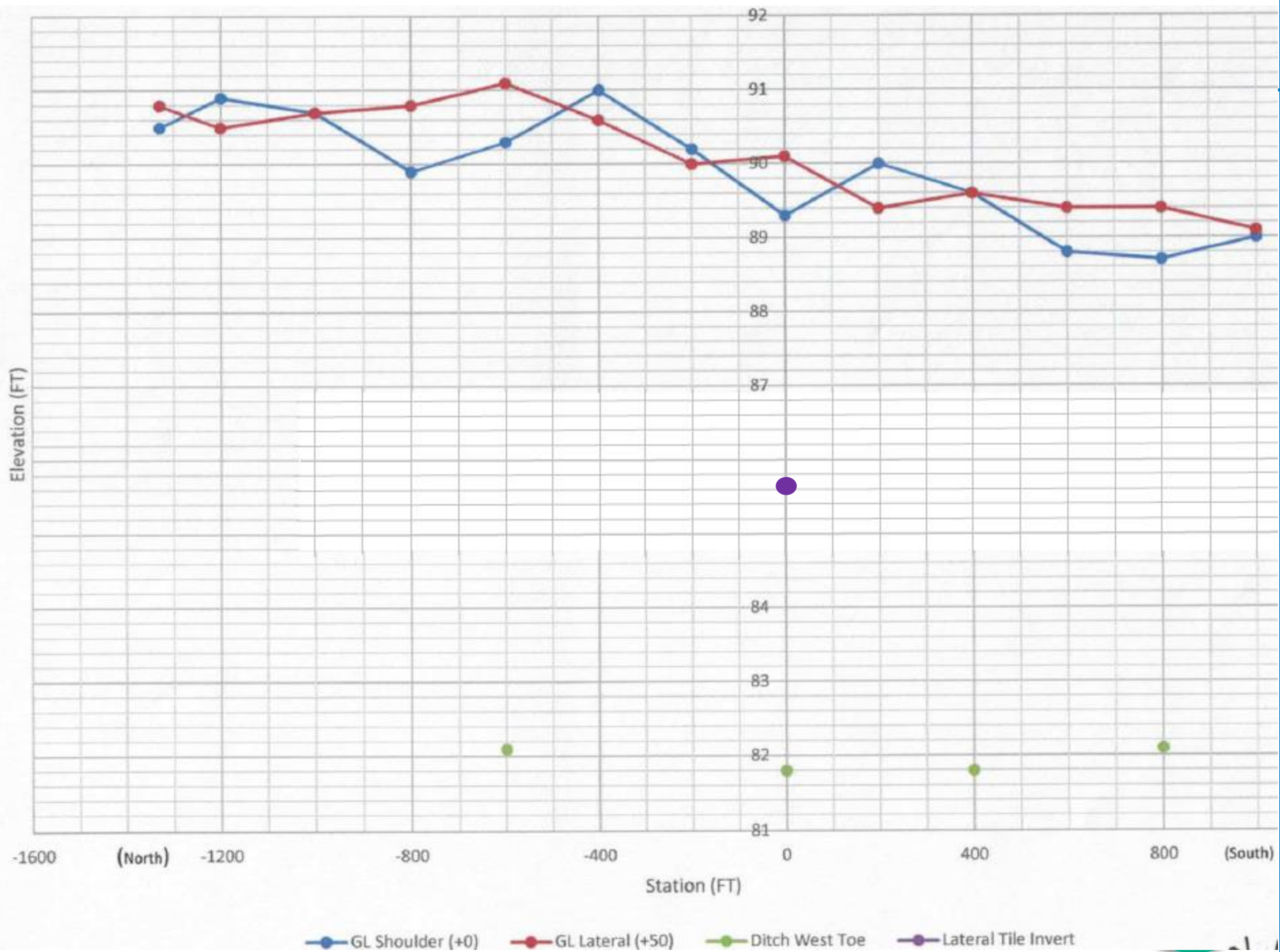


### Saturated Hydraulic Conductivity ( $\mu\text{m}$ per second)





● Ground Level    ● Existing Tile Invert    ● Proposed Tile Invert





United States Department of Agriculture

