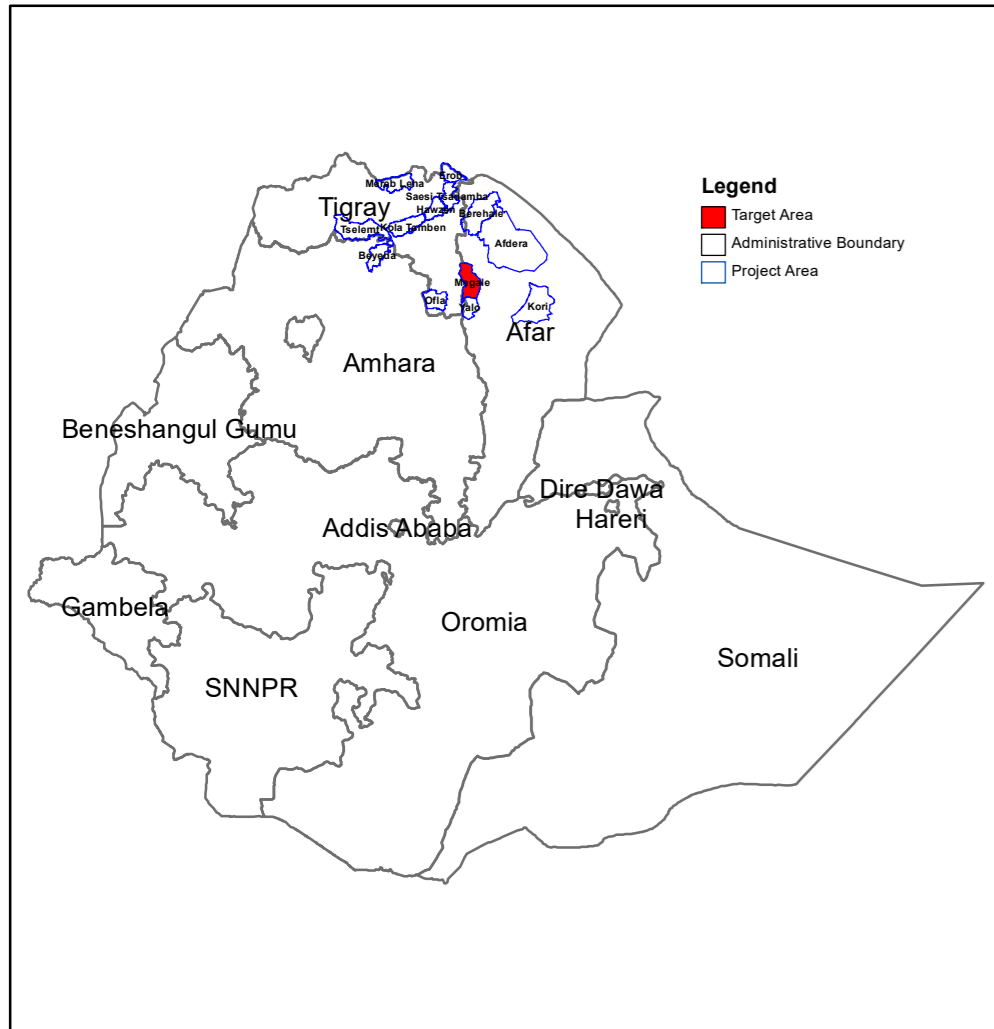
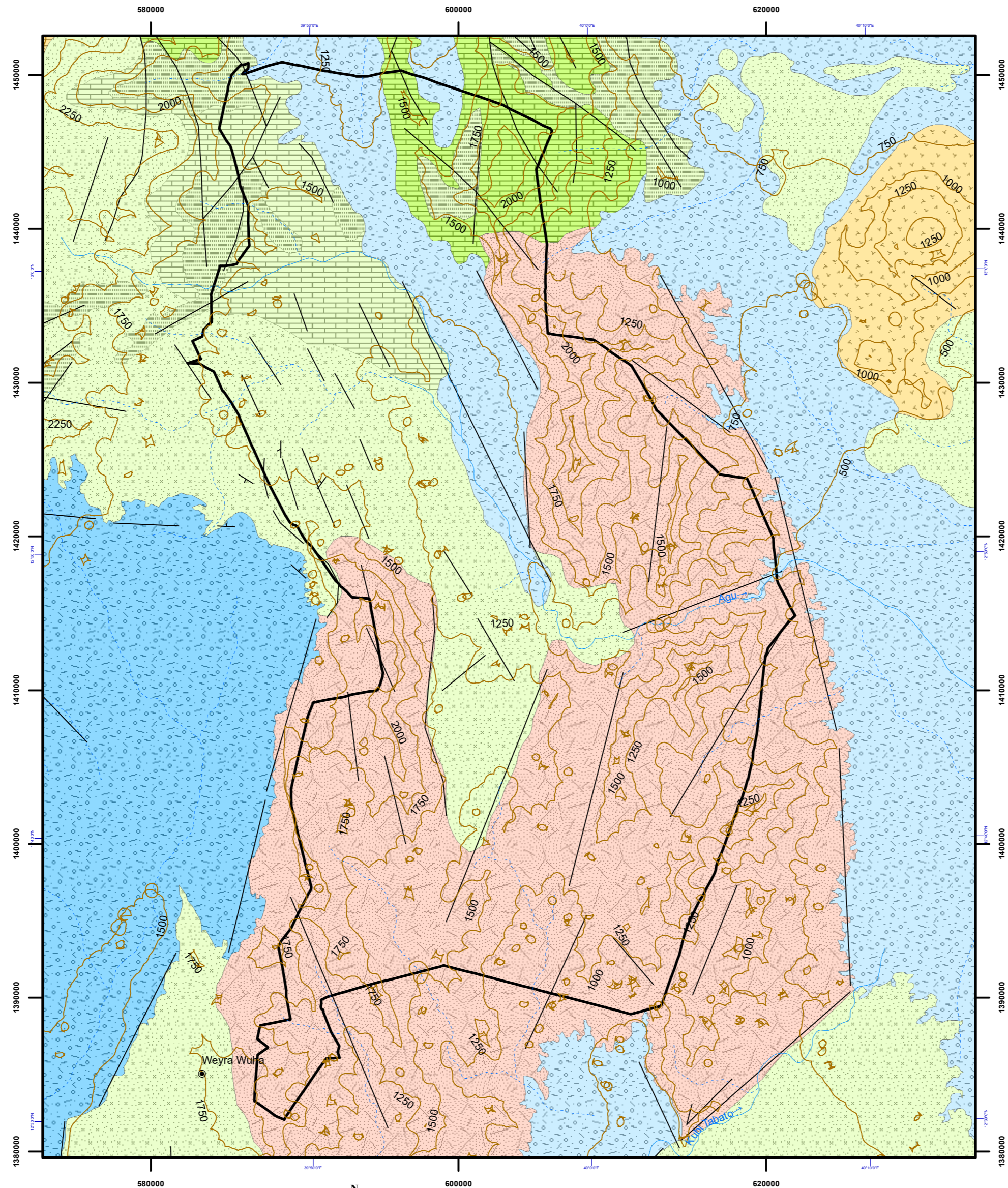
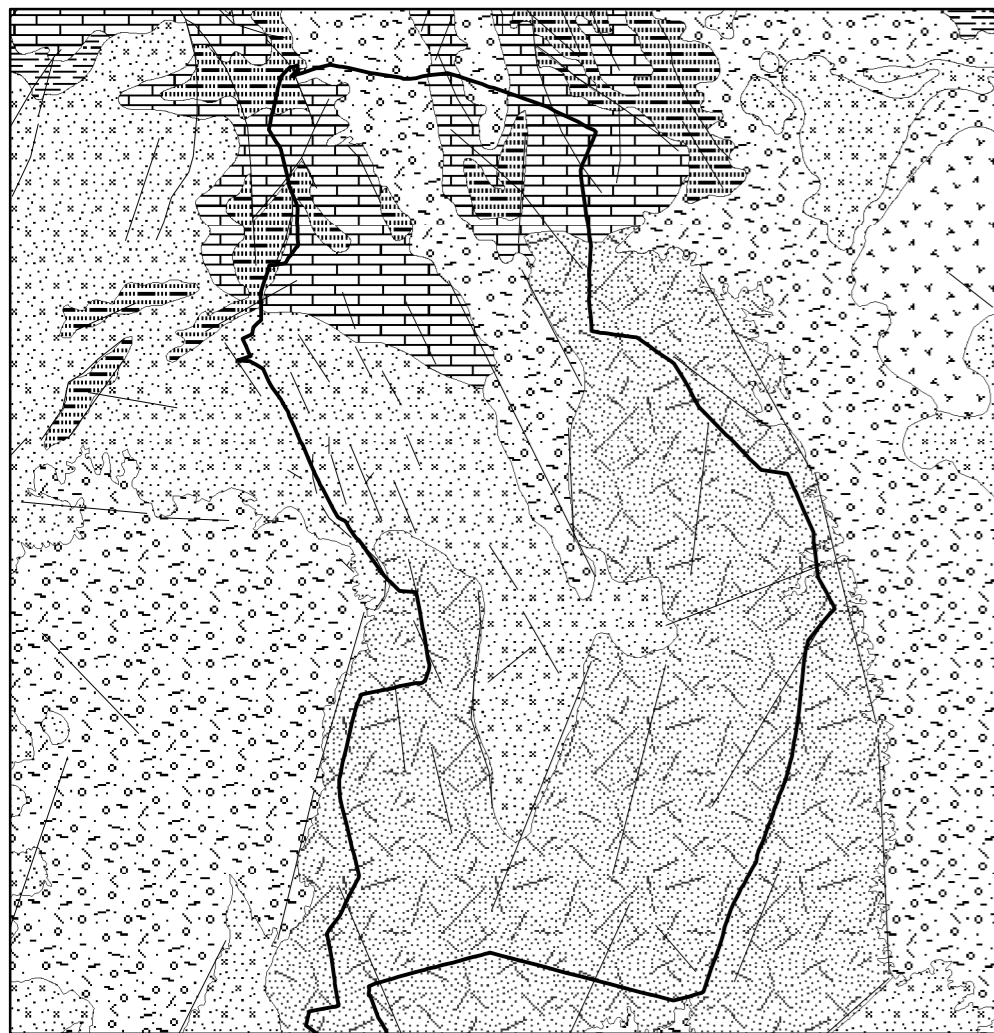


HYDROGEOLOGICAL MAP OF MEGALE

PROJECT AREA



GEOLOGICAL MAP OF MEGALE



LEGEND

Aquifer Classification

- Moderately productive porous aquifers ($T = 1 - 10 \text{ m}^2/\text{d}$, $q = 0.01 - 1 \text{ l/s.m}$, $Q = 0.5 - 5 \text{ l/s}$ for wells and/or springs) or local or discontinuous but highly productive aquifers
- Highly productive fissured / karst aquifers ($T = 10 - 100 \text{ m}^2/\text{d}$, $q = 1 - 10 \text{ l/s.m}$, $Q = 5 - 25 \text{ l/s}$ for wells and/or springs) or locally extremely productive aquifers consisting of sedimentary and volcanic rocks
- Moderately productive fissured aquifers ($T = 1 - 10 \text{ m}^2/\text{d}$, $q = 0.01 - 1 \text{ l/s.m}$, $Q = 0.5 - 5 \text{ l/s}$ for wells and/or springs) or local or discontinuous but highly productive aquifers consisting of sedimentary and volcanic rocks
- Low productive fissured aquifers ($T = 0.1 - 1 \text{ m}^2/\text{d}$, $q = 0.001 - 0.01 \text{ l/s.m}$, $Q = 0.05 - 0.5 \text{ l/s}$ for wells and/or springs) in which flow is mainly developed in irregular system of fissures & weathered mantle of a crystalline rock

- Perennial river
- Intermittent river
- Contour
- Fault
- Town
- Woreda Boundary

Lithology

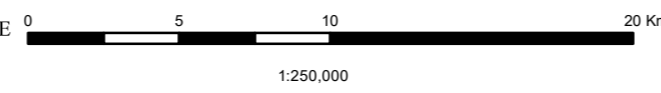
- Alluvial and lacustrine sediments – clay and sand with gravel dunes and other aeolian deposits (in Afar)
- Basalt with minor trachyte and upper pyroclastic
- Limestone, undifferentiated slates, calcareous sediments, marble and fossiliferous and sand limestone
- Sandstone – Adigrat, Amba Aradom, Enticho
- Low grade metamorphic rocks – phyllite and slate- metavolcanics rocks - intermediate and basic lavas, tuffaceous slate, agglomerate, rhyolite and metasediments - black slate limestone, sandstone, siltstone and greywacke

Hydrogeological Mapping for Climate Resilient Wash in Ethiopia - Lot 1



Disclaimer:

This document was produced with the financial assistance of The Department for International Development, UK. The boundaries in this map are not authoritative or political. Geology compiled by Geological Survey of Ethiopia from 1971 to 2015. Hydrogeology compiled by: Jiri Sima, 2021. Digital Cartography: Shiferaw Ayele Mamo, 2021.



Horizontal Datum: WGS 1984
Vertical Datum: Mean sea level
Projection: Universal Transverse Mercator, Zone 37N