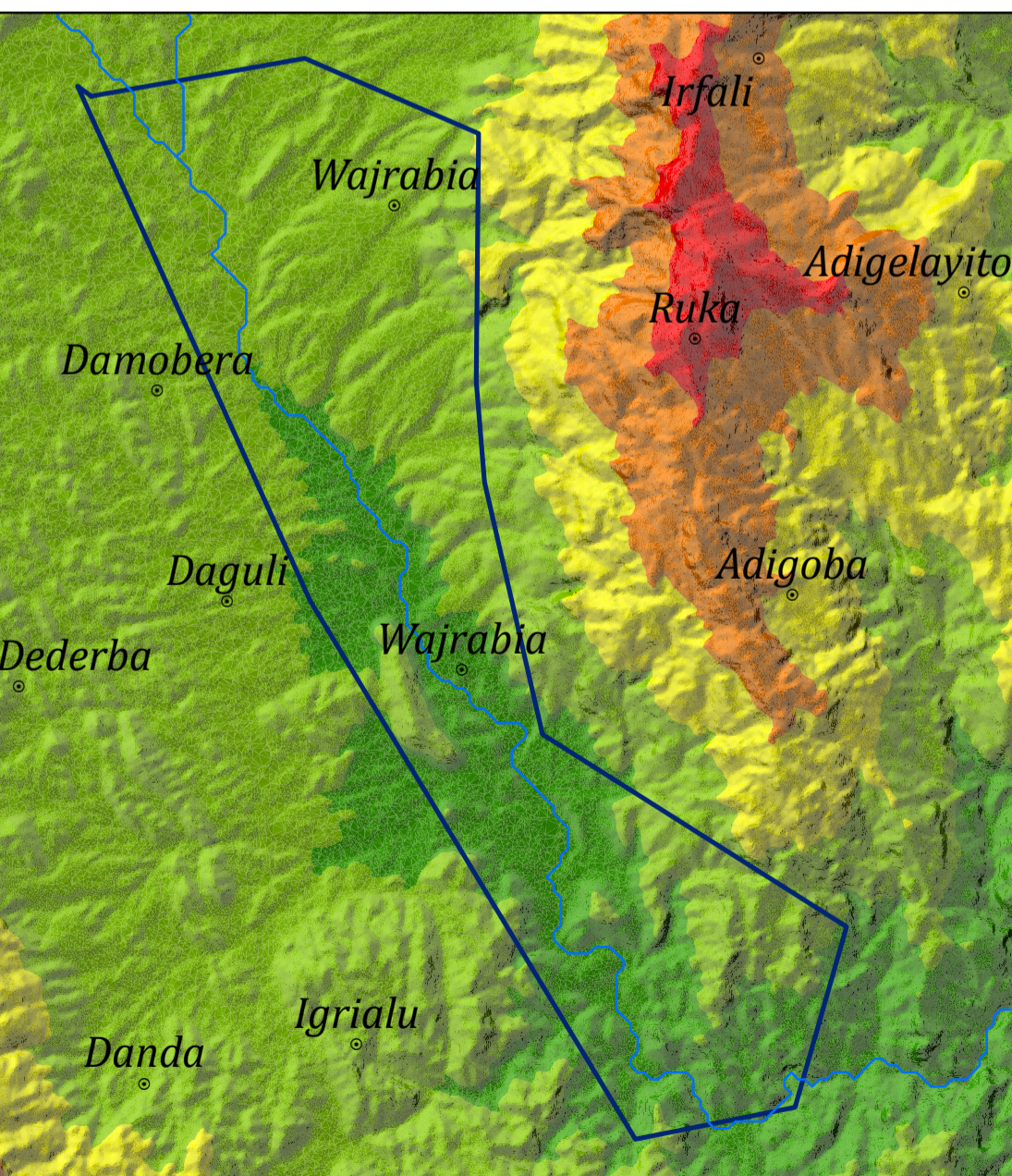
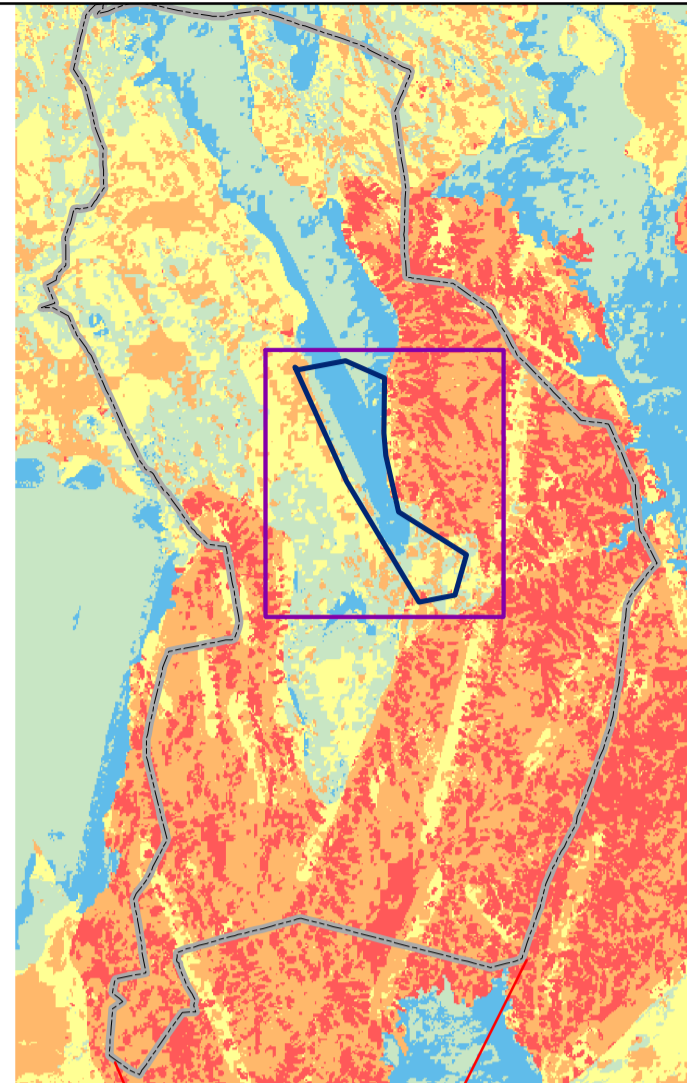


**INSET MAPS**

**GWPZ Index**

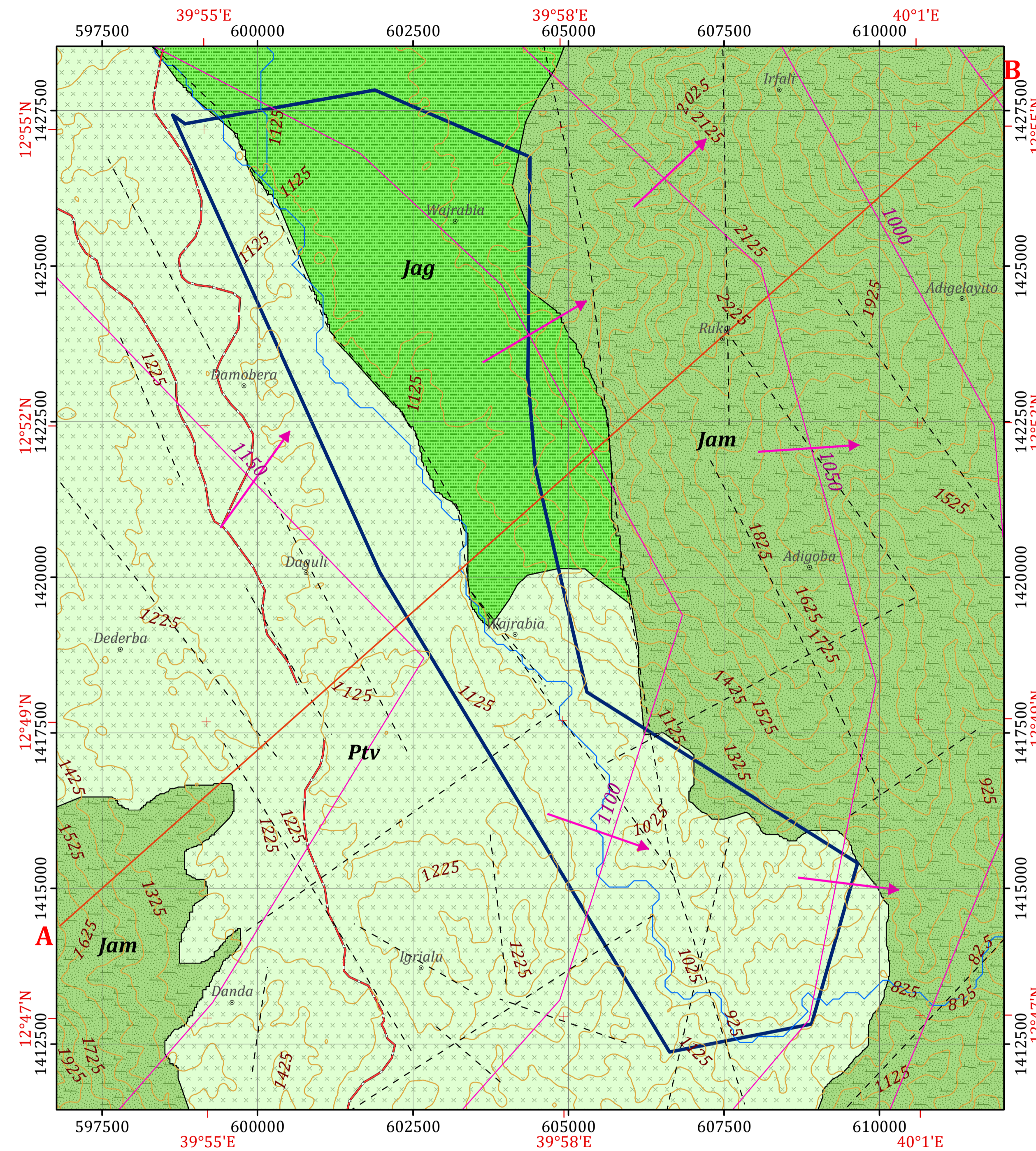
- Unsuitable
- Very Low
- Low
- Moderate
- High
- Mapping area
- Target Area-II
- Megale Woreda



**Elevation (m.a.s.l.)**

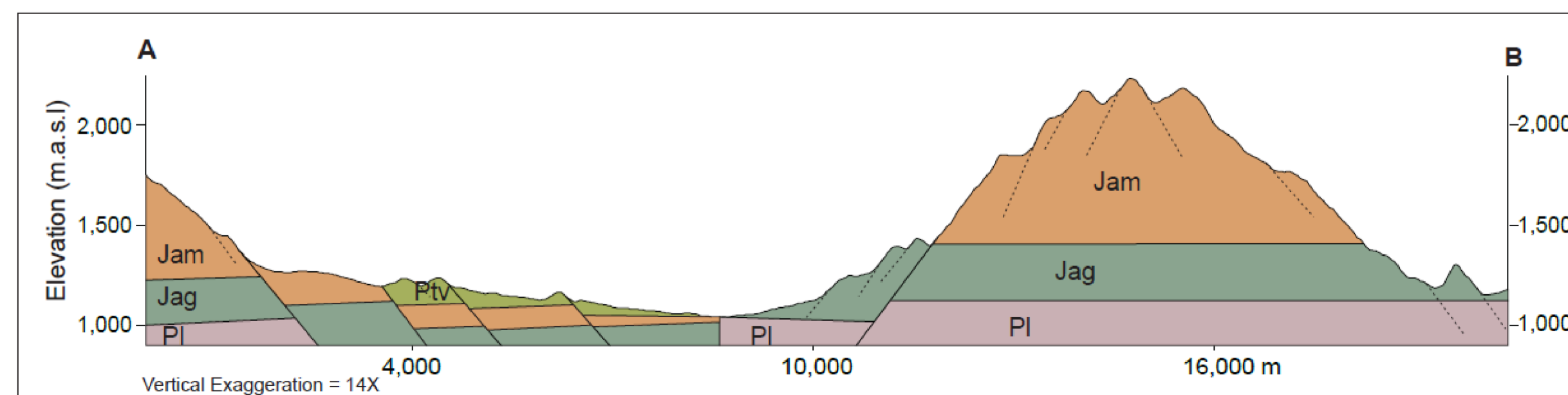
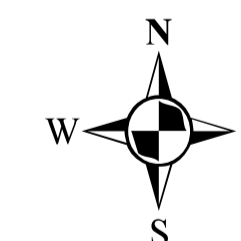
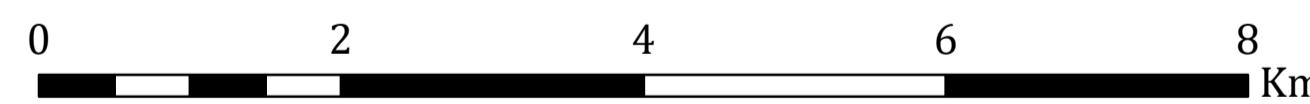
- 2020 - 2330
- 1710 - 2020
- 1400 - 1710
- 1090 - 1400
- 780 - 1090

**HYDROGEOLOGICAL MAP OF TARGET AREA-II WITHIN MEGALE WOREDA**



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

Scale: 1:50,000



**Legend**

**AQUIFER CLASSIFICATION**

- Aquifer class-I: Highly productive aquifers ( $T = 10-100m^2/d$ ,  $q = 1-10 l/s/m$ ,  $Q = 5-25 l/s$  for wells or locally extremely productive aquifers consisting of primary porosity and fracture porosity of the sandstone
- Aquifer class-II: Moderately productive fissured /karst aquifers ( $T = 1-10m^2/d$ ,  $q = 0.01-1 l/s/m$ ,  $Q = 0.5-5 l/s$  for wells and locally highly productive aquifers in fracture zones and karsts
- Aquifer class-III: Low productive fissured aquifers ( $T = 0.1-1m^2/d$ ,  $q = 0.001-0.01 l/s/m$ ,  $Q = 0.05-0.5 l/s$  for wells and/or springs in which flow is mainly developed in irregular system of fissures & weathered mantle of acrySTALLINE rock

**LITHOSTRATIGRAPHIC UNITS**

- PtV Transverse volcanics: Basaltic lava flows of mostly doleritic or porphyritic olivine basalt
- Jam Ambaradam sandstone: Clay, silt, sandstone, pebble conglomerate, and silty clay stone, lateritized in places
- Jag Agula shale: Finely crystalline limestone, marl, shale intercalated with sandstone

**GEOLOGICAL STRUCTURES**

- Lineament

**OTHER SYMBOLS**

- Locality
- ~ Contour Line (25 m Interval)
- ~ Drainage
- ~ Main Road
- ~ Groundwater Contour
- — Cross Section Line
- Target Area-II
- Flow Direction

**HYDROGEOLOGICAL MAPPING FOR CLIMATE RESILIENT WASH IN ETHIOPIA - LOT-1**



**Disclaimer:**  
 Administrative boundaries: CSA 2007  
 Built-up areas: Sentinel-2, Openstreetmap 2021

Hydrogeological map production : Dr. Dessie N. & Shiferaw L.  
 Geological map production : Dr. Tarekegn T. & Dr. Yohannes D.  
 Cartography:- Assaminew G.