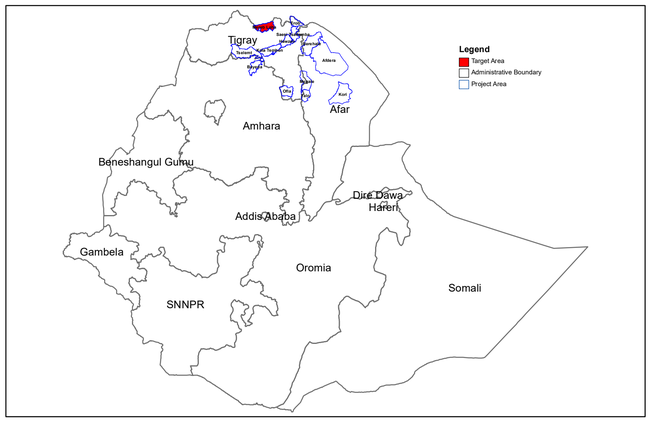
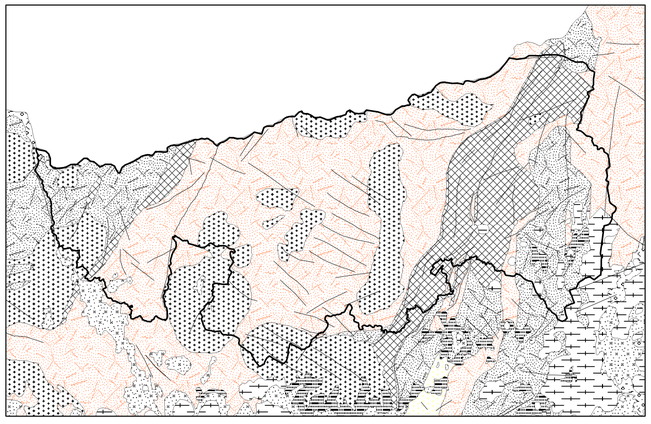
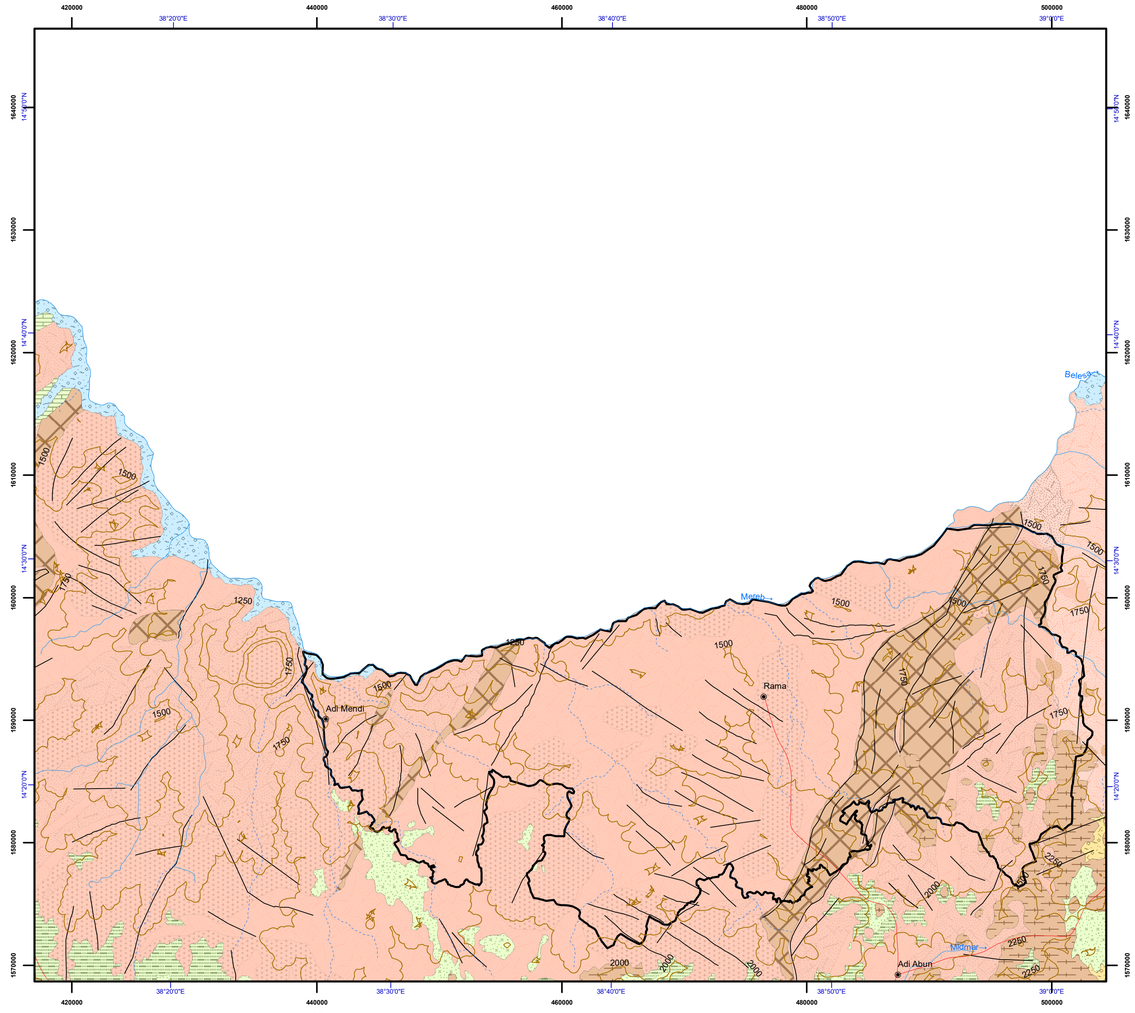
HYDROGEOLOGICAL MAP O F LEREB LEHA

PROJECT AREA



GEOLOGICAL MAP OF LEREB_LEHA





LEGEND

Aquifer Classification

- Moderately productive fissured aquifers (T = 1 - 10 m2/d, q = 0.01 - 1 l/s.m, Q = 0.5 - 5 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 m2/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 a crystalline rock
- Aquiclude - formation with essentially no groundwater resources consisting of dome forming phonolite / trachyte & gabbro and metagabbro (aquifuge – solid rocks / blind rocks)

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

Lithology

- Rhyolite and alkaline over saturated trachyte, alkaline and peralkaline rhyolite
- Granite / syenite
- Gabbroic intrusive, metagabbro and metapyroxinite
- Sandstone – Adigrat, Amba Aradom, Enticho
- Low grade metamorphic rocks – phylite and slate- metavolcanics rocks - intermediate and basic lavas,tuffaceous slate, agglomerate, rhyolite and metasediments - black slate limestone,sandstone, siltstone and greywacke
- Medium grade metamorphic rocks – schist - phyllitic schist, metagreywacke and metaconglomerate

Hydrogeological Mapping for Climate Resilient Wash in Ethiopia - Lot 1

Basins Development Authority
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ACACIA WATER

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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

N W E S

0 5 10 20 Km

1:250,000

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