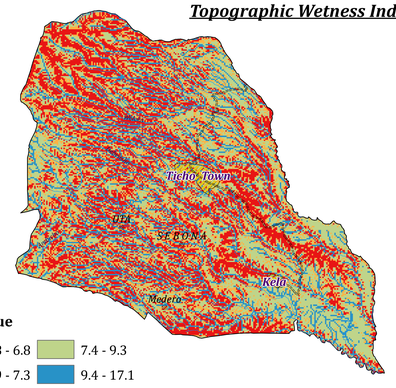
# GROUNDWATER POTENTIAL ZONES INDEX MAP OF TENA WOREDA

## Inset Maps

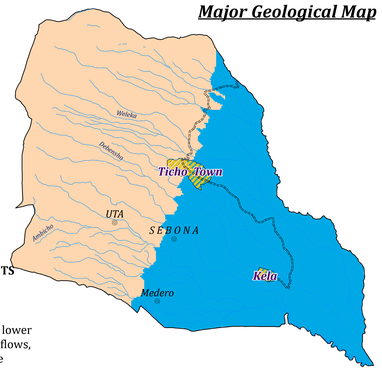
### Topographic Wetness Index Map




**TWI Value**

- 4.8 - 6.8
- 6.9 - 7.3
- 7.4 - 9.3
- 9.4 - 17.1

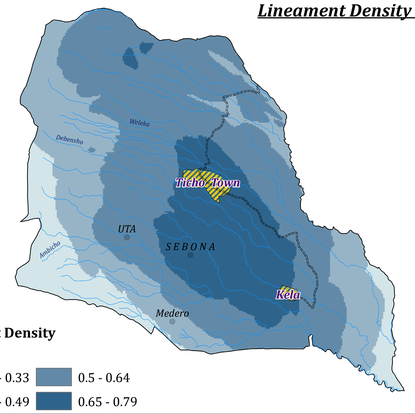
### Major Geological Map




**MAJOR LITHOLOGICAL UNITS**

- Tertiary volcanics of trachytes
- Tertiary volcanics of lower and plateau basaltic flows, and upper Hamanilie limesone Formation

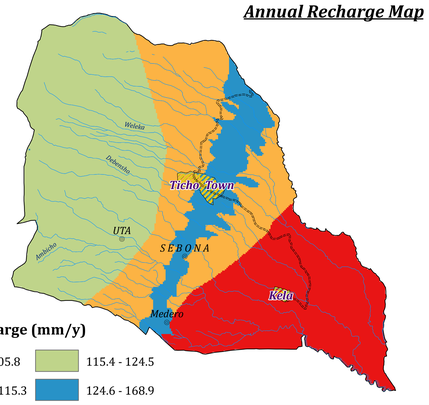
### Lineament Density Map




**Lineament Density (km/km2)**

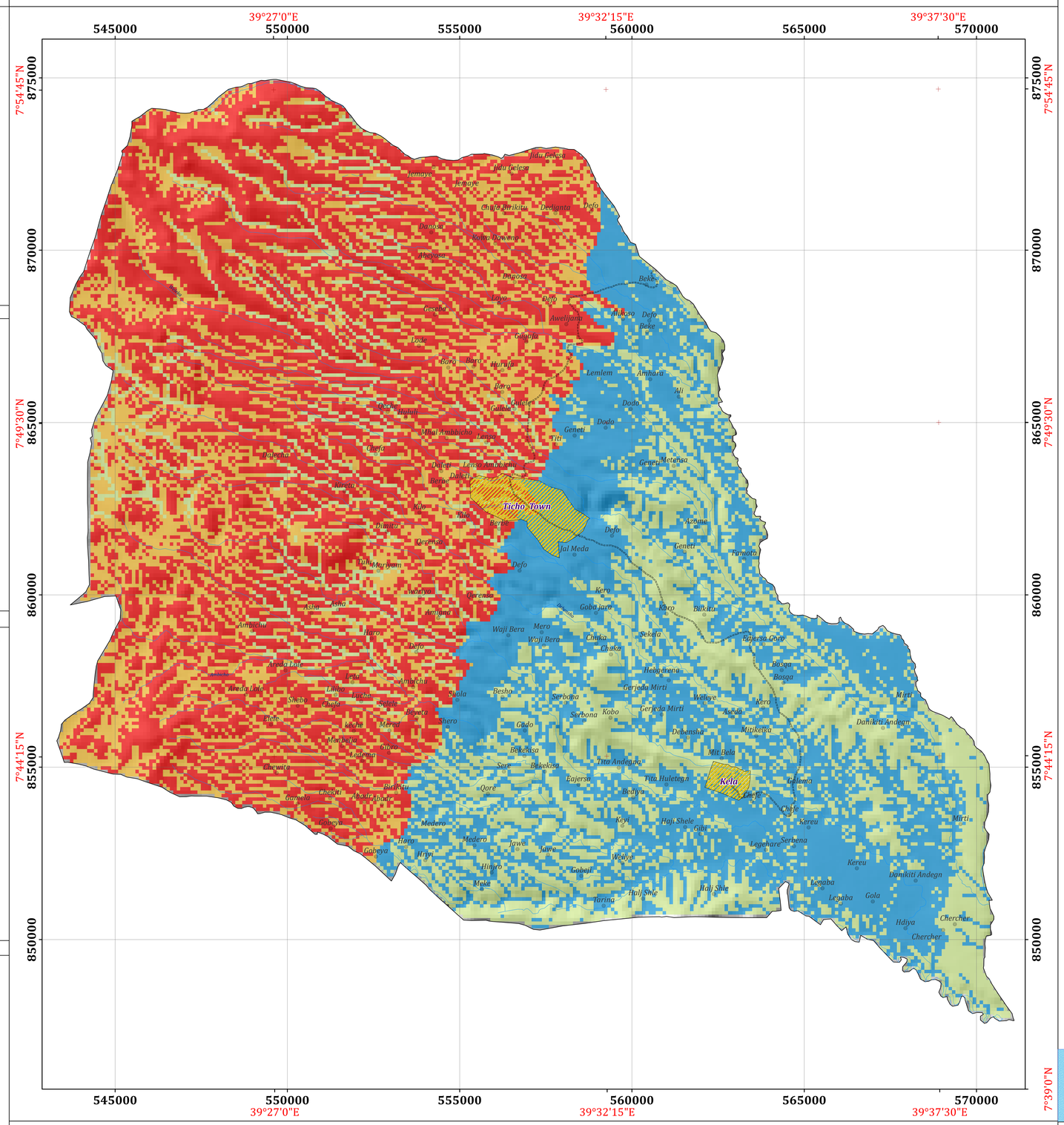
- 0.18 - 0.33
- 0.34 - 0.49
- 0.5 - 0.64
- 0.65 - 0.79

### Annual Recharge Map




**Annual Recharge (mm/y)**

- 95.5 - 105.8
- 105.9 - 115.3
- 115.4 - 124.5
- 124.6 - 168.9




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

Scale: 1:100,000

4 2 0 4 8 12 Km

N W E S

GroundWater Mapping

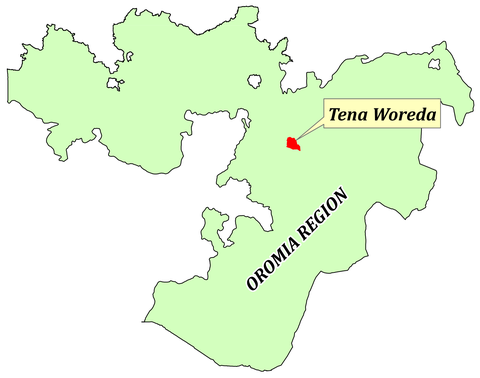
## Legend

### Groundwater Potential Zones

- Low (Yield: < 4 l/s)
- Moderate (Yield: 4 - 6 l/s)
- High (Yield: 6 - 10 l/s)
- Very High (Yield: >10 l/s)

### OTHER SYMBOLS

- Village
- Drainage
- All Weather Road
- Town




**HYDROGEOLOGICAL MAPPING USING REMOTE SENSING, GIS AND GEOPHYSICAL SURVEYING**

*" Delivering Climate Resilient Water, Sanitation and Hygiene in Ethiopia (DCRW)"*

DFID Department for International Development | MoWE | DH Consult | GOLDER

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