

Assessing the total microbial population and soil characteristic of abandoned tin mining area for agricultural sustainability



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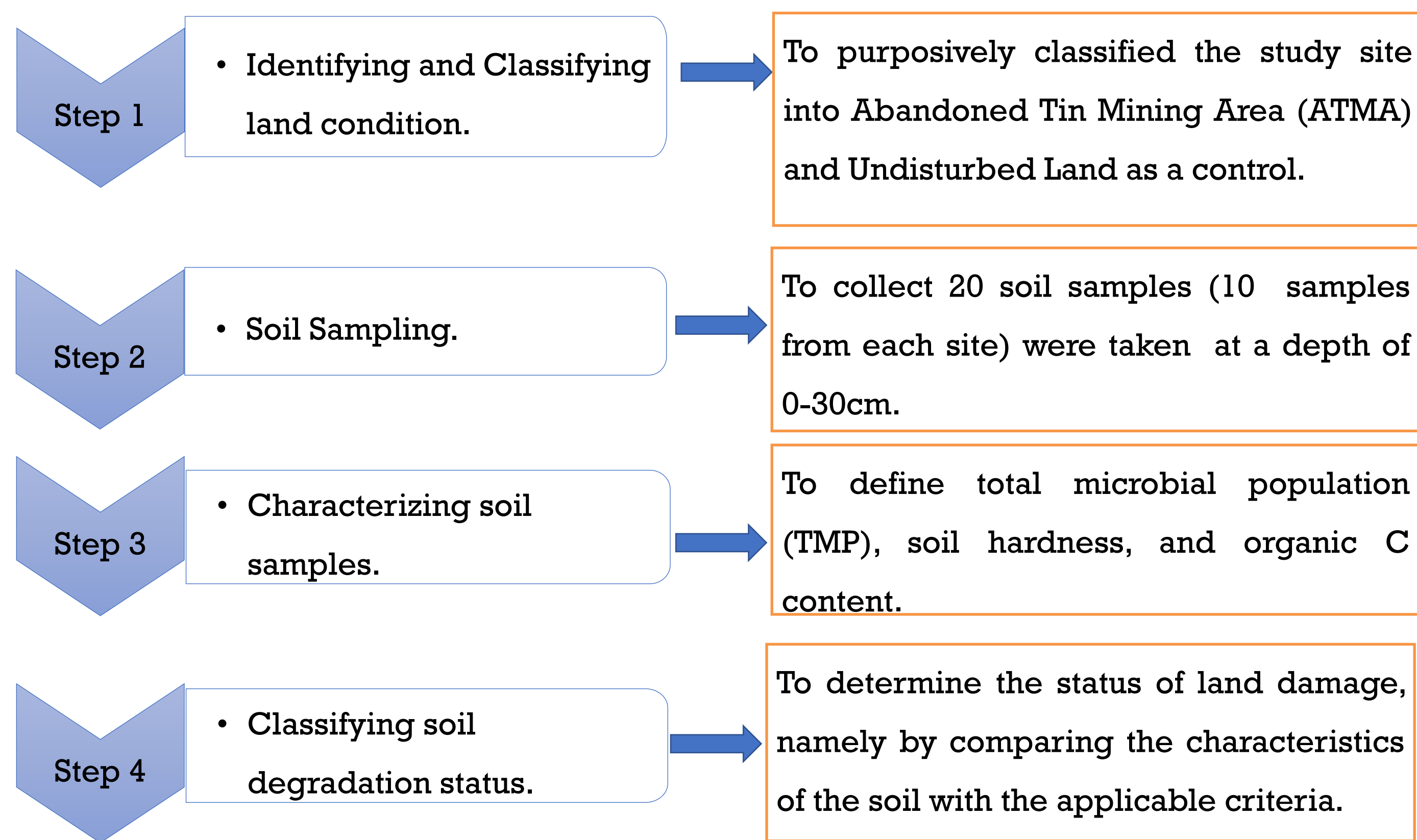
Background

- Tin mining has been conducted for hundreds of years and has a potential to increase community welfare, but it has also caused land degradation, which eventually has reduced natural productivity of the land.
- Once the land is damaged and loses function physically, chemically, and economically, it is classified as critical land and could not be used optimally.
- Because degraded land has several limiting factors, only a few plants can grow. Identifying critical land limiting factors is needed to take appropriate action in land reclamation activities.

Aim

- To assess total microbial population and identify limiting factors in abandoned tin-mining areas needed to take appropriate action in land reclamation activities.

Materials and Method



Result and Discussion

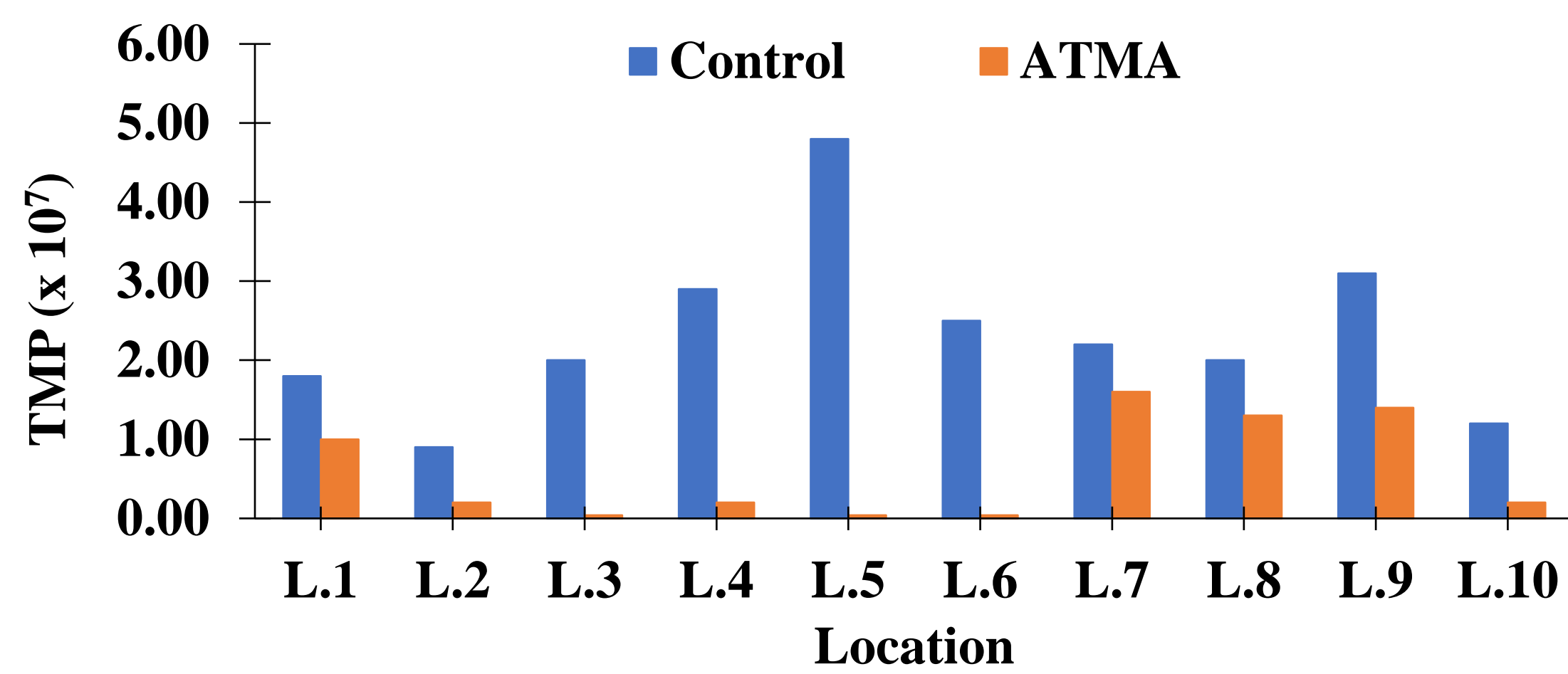


Figure 1. Total microbial population at the study site.

- Soil TMP was significantly affected ($p < 0.01$) by the status of the area, and
- The TMP of the soil in abandoned tin mining area in all locations was significantly lower than in the control area. However, it was still far above the critical threshold ($< 10^2$ cfu/g soil).

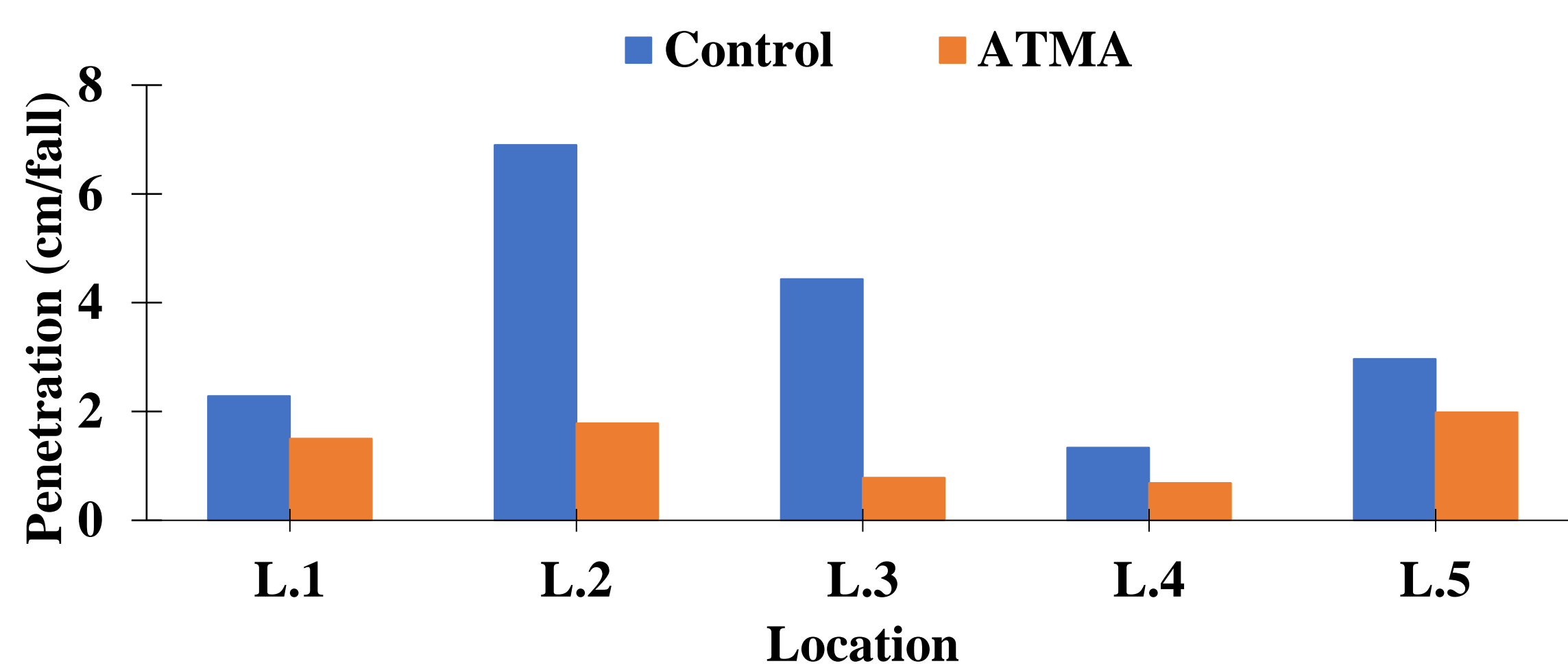


Figure 2. Soil hardness at the study site.

- Soil hardness was significantly affected ($p = 0.05$) by the status of the area, and
- Soils in the abandoned tin mining area in all locations was harder than those in control area so they were classified as degraded areas.

Result and Discussion

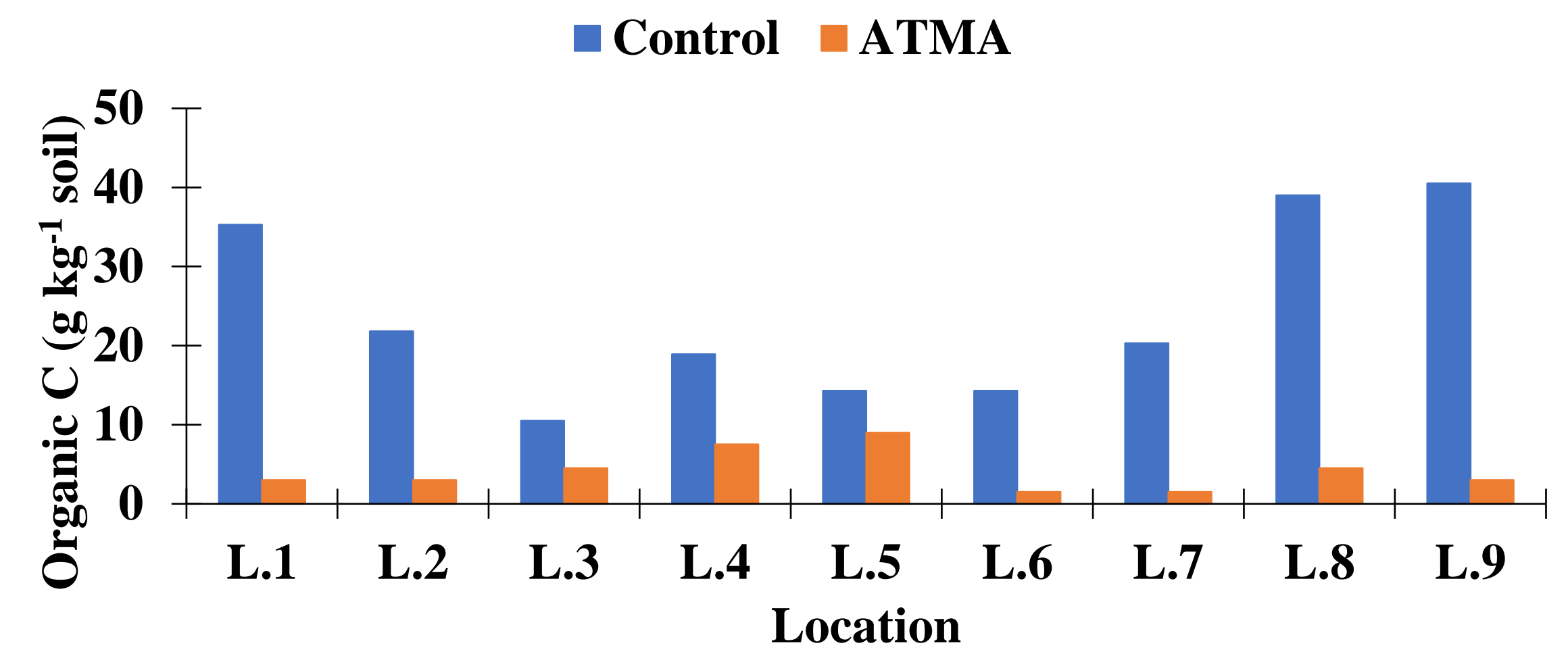


Figure 3. Soil organic C at the study site.

- Organic C of soil was significantly affected ($p < 0.01$) by the status of the area, and
- Organic C of soil in the abandoned tin mining area in all locations was significantly lower than those in control area so they are classified as degraded area.

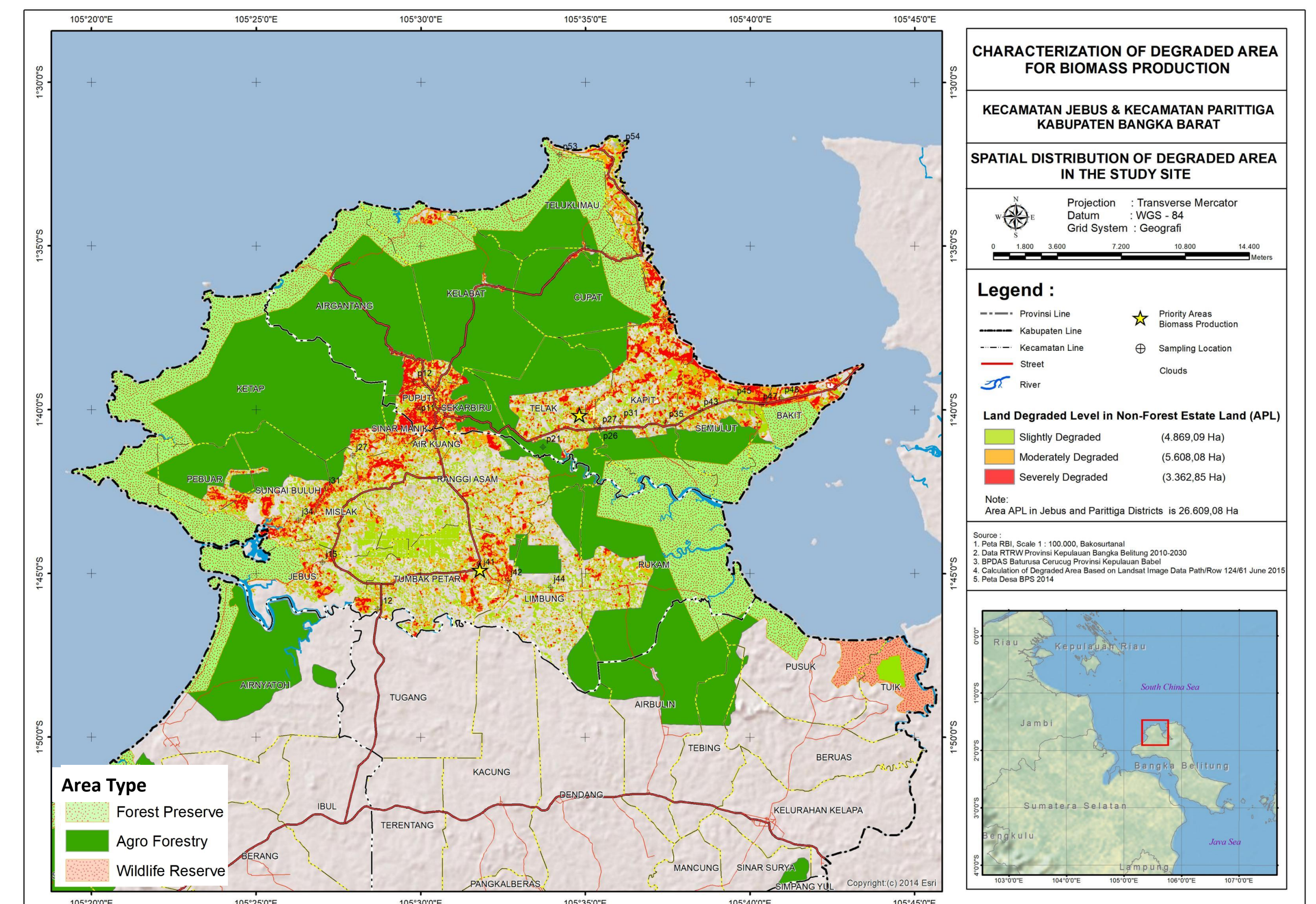


Figure 4. Spatial distribution of degraded area at the study site.

- 52.01% of the study site has been identified as degraded land, either as a result of tin mining activities or poor land management.
- The level of land degradation at the study site was grouped into 3 classes, namely slightly degraded (4,869.09 ha), moderately degraded (5,608.08 ha), and severely degraded (3,362.85 ha).

Conclusions

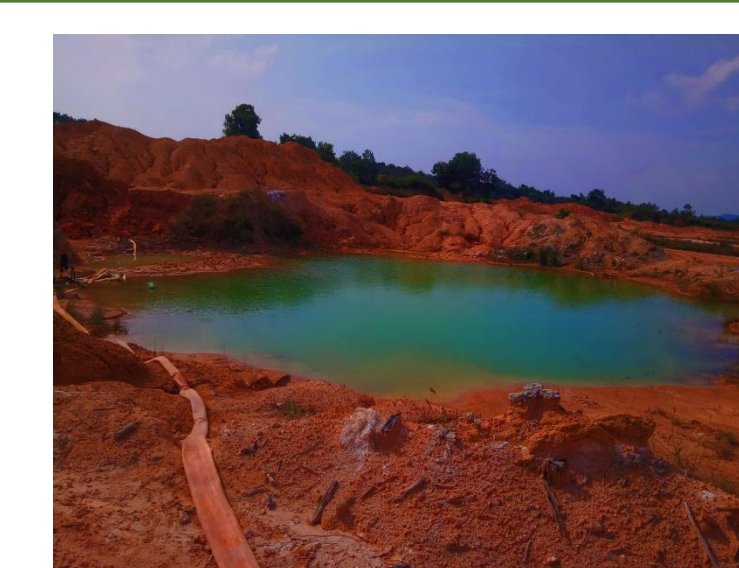
- Although the soil TMP in the study sites was still far above the critical threshold, both the Undisturbed Area as a Control has actually been slightly degraded, and the ATMA has been moderately to severely degraded,
- Both soil hardness and organic C content of the soil appeared to be important indicators of land degradation in the study sites, and
- Taking into account the current condition of the soil at the study site which has been slightly to severely degraded, it is recommended that reclamation efforts be carried out through the application of organic matter and chemical fertilizers, as well as planting endemic tree species that have important ecological and economic value.

Future Research

Considering the possibility of heavy metal residues at the study site, it is necessary to carry out further research related to the phytoremediation aspect using local tree species that have important ecological and economic values combined with bioremediation by optimizing in situ microorganisms.



Source: Personal documentation



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Assessing the Total Microbial Population and Soil Characterizations of Former Mining Land for Agricultural Sustainability

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Aim

The purpose of this research is to identify the limiting factors on degraded land after mining activities that affect to soil biodiversity, as a basis for providing appropriate actions in the implementation of land reclamations.

Method

The sampling method used is a semi-detailed survey with a scale of map 1: 100,000 and characteristics of land assessment used Matching and Scoring method. The variables observed in this study are 1) Total Microbial population (TMP) 2) Land Use; 3) pH; 4) Soil Texture; 6) Soil Physic and Chemistry Properties.

Results

This research comparing the samples from the land-use categories, they are community plantations, forestry, and former mining land. According to Government Regulation of Republic of Indonesia Number 150 of 2000 concerning Control of Soil Damage for Biomass Production, TMP threshold is 10^2 cfu/g. The TPM results for each land category are lower than the threshold, which at 10^{-9} cfu/g. The former mining land sample (P.35) had a lowest result of 972×10^{-9} cfu/g. While the highest result (P.21) at 4×10^{-3} cfu/g. This is coherent with the pH results, P.35 (4.99) and P.21 (5.24), which indicate that a lower pH can have an impact on the biodiversity of the soil.

Conclusions

The output of this study is a land damage status map which can be used for the next step of land degraded improvement. The results demonstrated that soil biodiversity was significantly under the threshold in all land use categories. It is concluded that continuous land activities have an impact on soil biodiversity.

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