

# CHAPTER 4 SITE ANALYSIS



*documenting post-traumatic landscape*



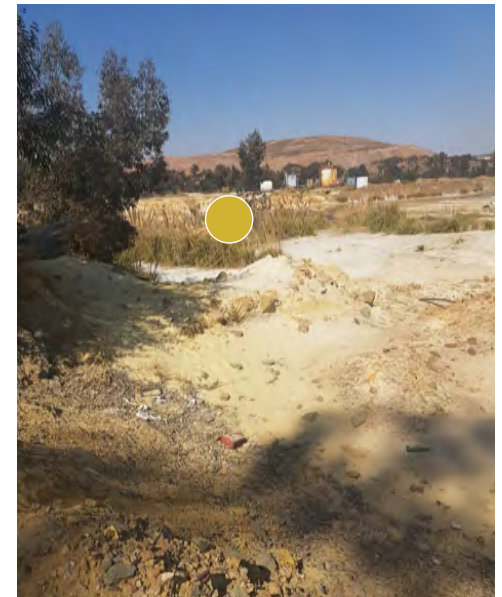
## 4.1 SITE CONTEXT

Within the urban framework This study focuses on the first built intervention on site. Initially a transport node that has used Booyens station a point of departure. This feature has been zoned to the north-east of the site due to its proximity to the proposed road and rail network. This portion has to interface between a green belt to the east, an Acid Mine Water mass to the south, a New Main Road to the north and toxic land to be removed and replaced with a layer of topsoil.

The topography falls about 8m along the north-south axis of the site and has a view of JHB city to the North and the Landfill to the South. Due to the prevailing winds, the smell of the landfill is quite diluted. The site is quite isolated from the surrounding activities, a desolate space of toxic land which in and of itself has an innate beauty. This leads to an architectural issue of developing an architecture of regionalism from the site and poses the question, how does site become architecture, not only through topography but also contextually, bearing in mind the rich mining heritage and typology. To be true to the zeitgeist of the site and in an effort to capture and realize this idea of Active Regeneration this question must be answered.

**FIG 78 :** Pictures depicting urban and site conditions, mounds of natural stone, gabion walls, vegetation, infected soil and water, mounds of remaining toxic soil (Author, 2017)

## 4.2 PICTURE EXPLORATION THROUGH SITE



**FIG 79 :** Pictures depicting urban and industrial conditions as well as site conditions. The water mass on site and harmful reeds which disperse a fine fluff that can be a respiratory risk (Author, 2017)

### 4.3 TOPOGRAPHIC EXPLORATION AND IMPLICATIONS

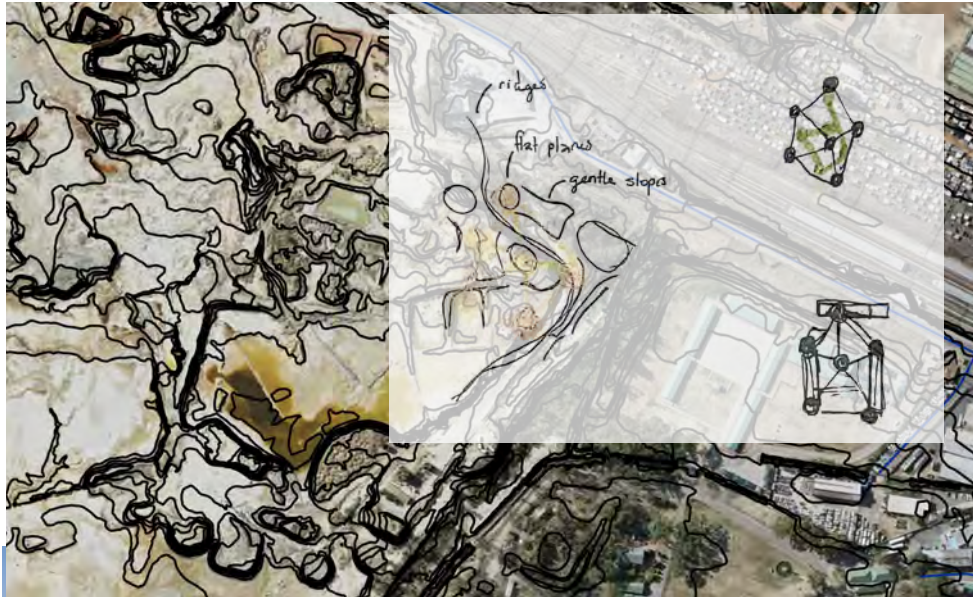


FIG 80 : Topographical exploration with nodes and edges (Author, 2017)



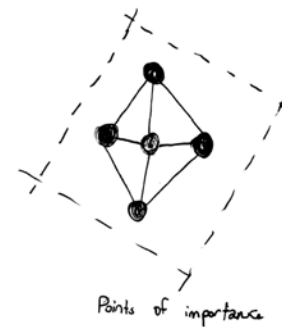
FIG 81 :Ridges and drops on site (Author, 2017)



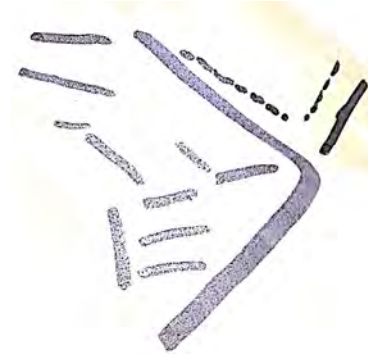
STRONG TOPOGRAPHIC  
FLOW LINES



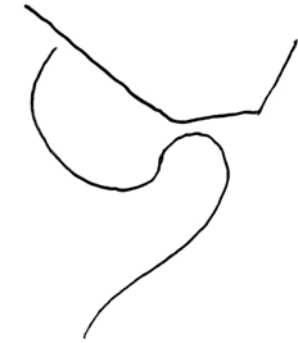
Topographic  
→ Nodes & Linkages



Points of importance



TOPOGRAPHIC OUTCOME



Ridges & Planes

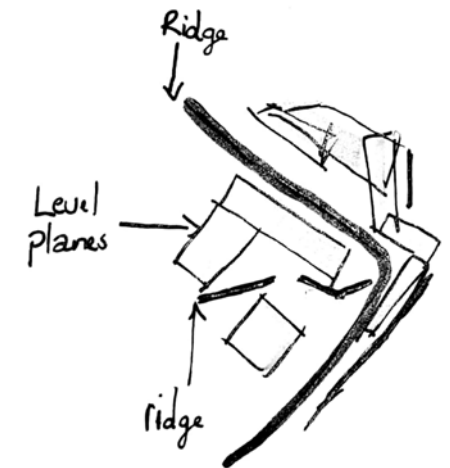


FIG 82 :Topographical solution and spatial outcome(Author, 2017)

#### 4.4 SITE ANALYSIS

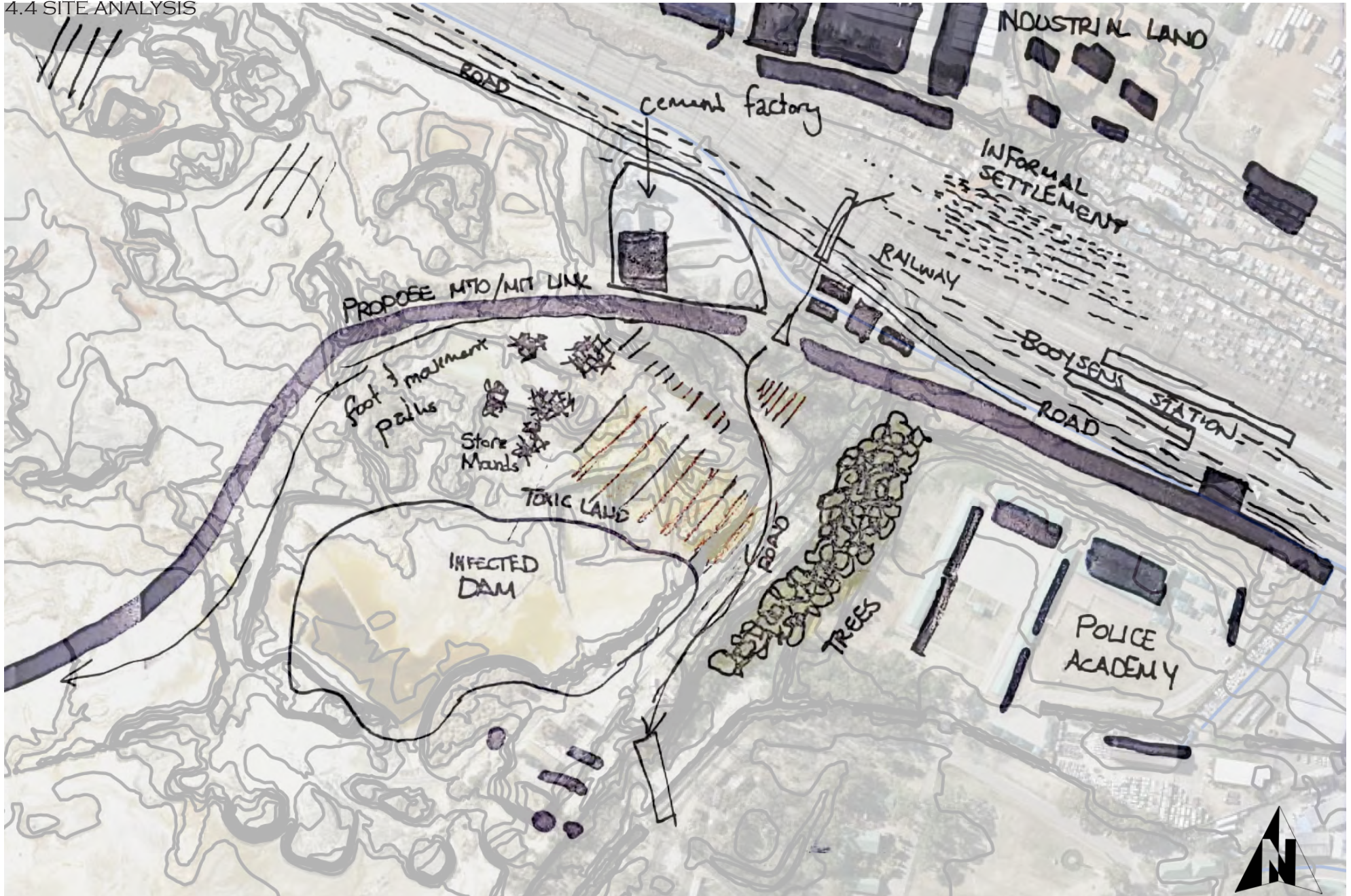


FIG 83 :Site analysis mapping(Author, 2017)



FIG 84 :Climate mapping(Author, 2017)