

FIGURES

Figure 1.1: Site Location – Nchanga Mine

Figure 1.2: Location of TD2 Slag Dump Site

Figure 1.3: Preferred Route to proposed Slag Dump site

Figure 6.1: The explosion refraction seismic interpretation map of the survey site

Figure 6.2: Location of Surface Water Sampling Points

Figure 6.3: Topographic Map of TD2 Project Site showing configuration of surface of unweathered bedrock and location of suitable sites of two monitoring wells

Figure 6.4: Wind Roses based on data available for Mufulira 2010 (for the whole year)

Figure 6.5: Wind Roses based on data available for Mufulira 2010 (May – October)

Figure 6.6: PM10 Daily Maximum Ground Concentration

Figure 6.7: TSP Maximum Ground Concentration

Figure 6.8: TSP Annual Average

Figure 6.9: Location of Soils Sampling Points

Figure 6.10: Schematic location of noise measurement points

Figure 6.11: Location of the Surveyed Area for Radiological Assessment Study

Figure 6.12: Graphical presentation of the results for surface dose rates (mSv/yr) and contamination (Bq)

Figure 6.13: Radiation Due to Gamma on the Chingola and Mushishima Streams

Figure 6.14: Surface Contamination due to Alpha and Beta on the Chingola and Mushishima Streams, Chingola

Figure 6.15: Radiation due to gamma on TD2 and Mushishima Settlement Area, Chingola

Figure 6.16: Surface contamination due to Alpha & Beta on TD2 and Mushishima Settlement Area, Chingola

Figure 6.17: Radiation due to gamma on route options and current Slag Dump, TD2, Chingola

Figure 6.18: Surface Contamination due to Alpha & Beta on Route Options and Current Slag Dump

Figure 6.19: Radiation due to Gamma on background, Chingola

Figure 6.20: Surface Contamination due to Alpha & Beta on Background, Chingola

Figure 6.21: Map showing sampling points on the current Slag Dump

Figure 8.1: Corporate Sustainability Organisation: Management

Figure 8.2: Sustainability Organisation: SHE Operations – Smelter and Refining

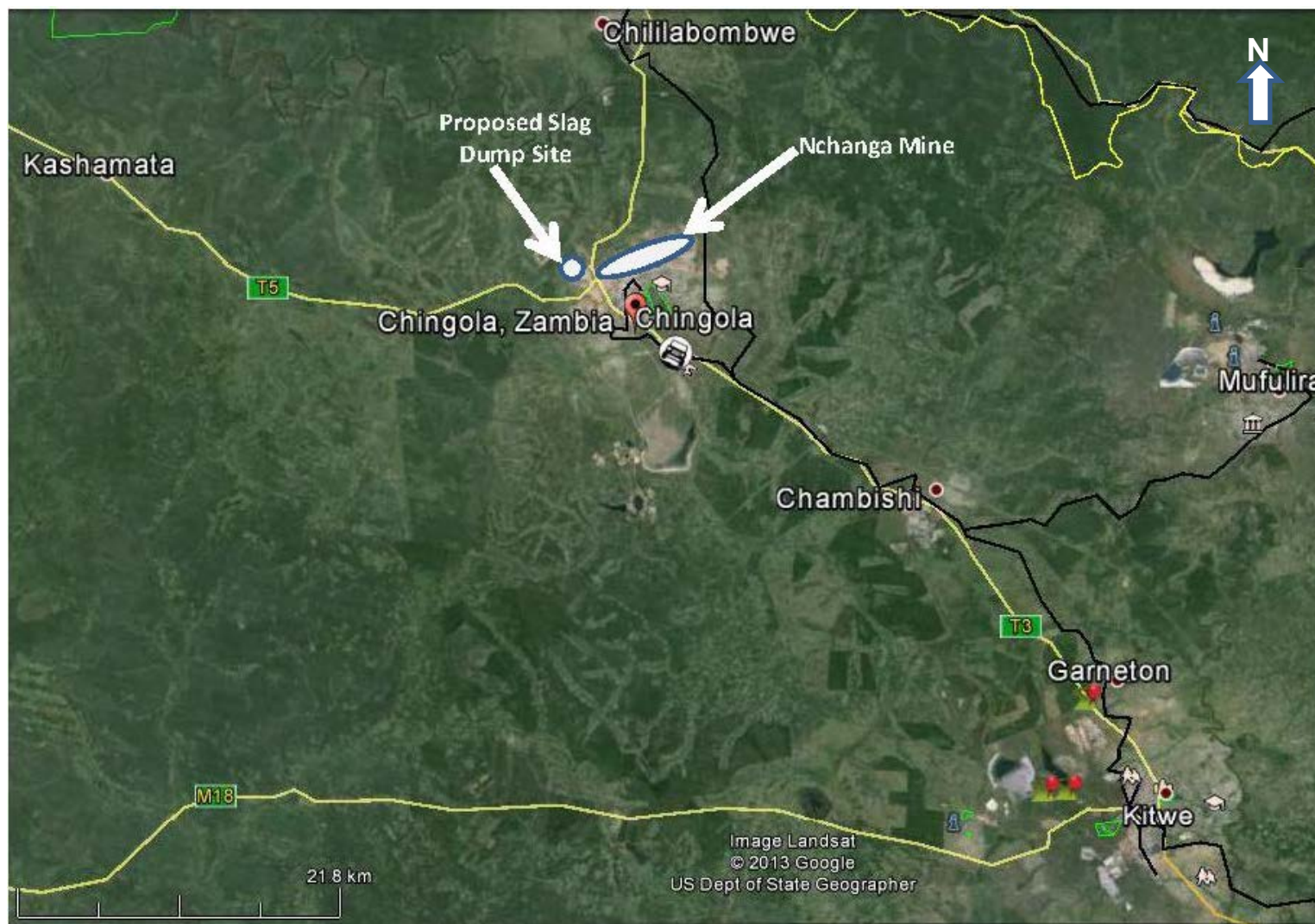
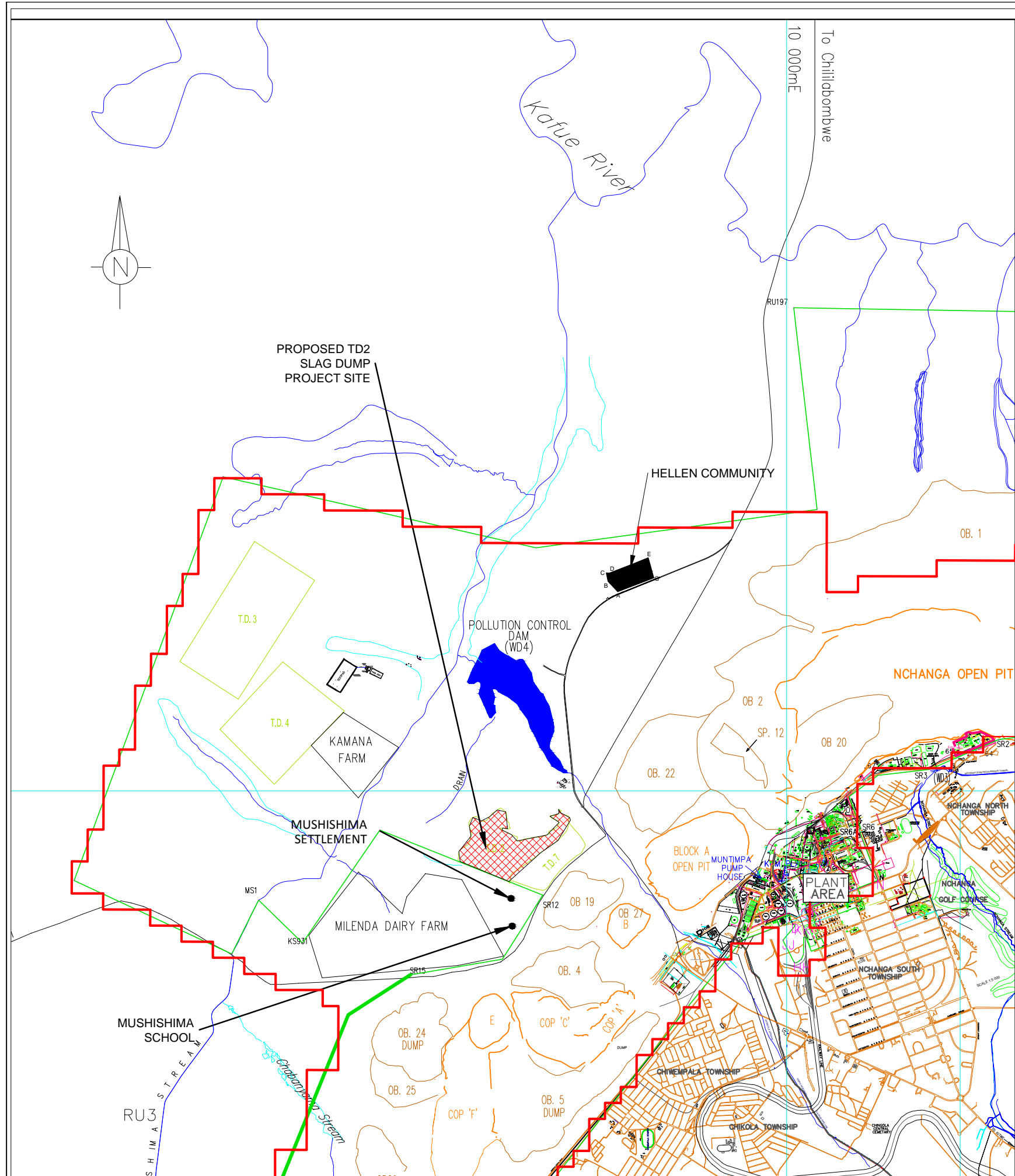


Figure 1.1: Location of Nchanga Mine



HELLEN COMMUNITY		
POINT	EASTINGS	NORTHINGS
A	8051.838	22299.531
B	7943.136	22415.101
C	7923.976	22507.512
D	7952.213	22507.016
E	8220.627	22608.343
F	8400.191	22683.590
G	8462.476	22455.446

LEGEND	
	Mining Licence Boundary (No.7075-HQ-LML)
	Surface Rights Boundary
	Residential Area
	Dambo Area
	River/stream
	Water Body

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX				
IT IS ASSUMED THAT ALL WORKS ON THIS DRAWING WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROPRIATE METHOD STATEMENT.				
THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSE OF ISSUE THAT IT WAS ISSUED FOR AND IS SUBJECT TO AMENDMENT.				
NOTES				
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION.				
2. DO NOT SCALE FROM THIS DRAWING, USE ONLY PRINTED DIMENSIONS.				
3. ALL DIMENSIONS IN MILLIMETRES, ALL CHAINAGES, LEVELS AND COORDINATES ARE IN METRES UNLESS DEFINED OTHERWISE.				
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PROJECT HEALTH & SAFETY FILE FOR ANY IDENTIFIED POTENTIAL RISKS.				
Purpose of issue				
FOR INFORMATION				
Client				
KONKOLA COPPER MINES PLC				
Project Title				
PROPOSED TD2 SLAG DUMP				
ESIA				
Drawing Title				
General Layout Drawing For Proposed TD2 Slag Dump Site				
Designed	Drawn	Checked	Approved	Date
N/A	SS	CB	PK	SEPT 2014
THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF URS' APPOINTMENT BY ITS CLIENT. URS ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING URS' EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.				
URS Scott Wilson Zambia 24 Enos Chomba Road, P.O.Box 22496, Kitwe, Zambia Tel: +260 212 228466 Fax: +260 212 223649 www.ursglobal.com				
Drawing Number				Rev
Z1098-004-2014				0

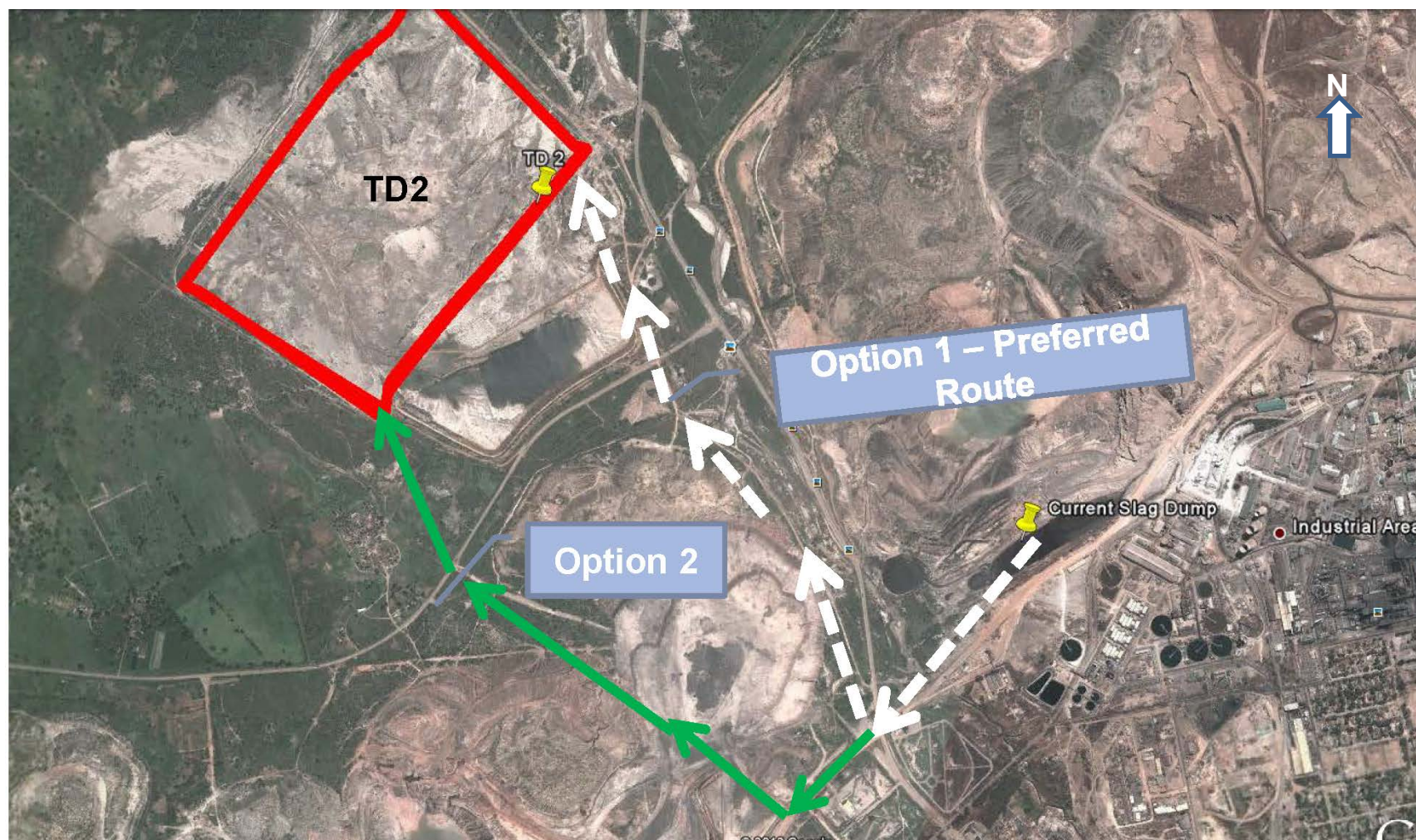


Figure 1.3: Preferred Route to proposed Slag Dump site shown in broken line

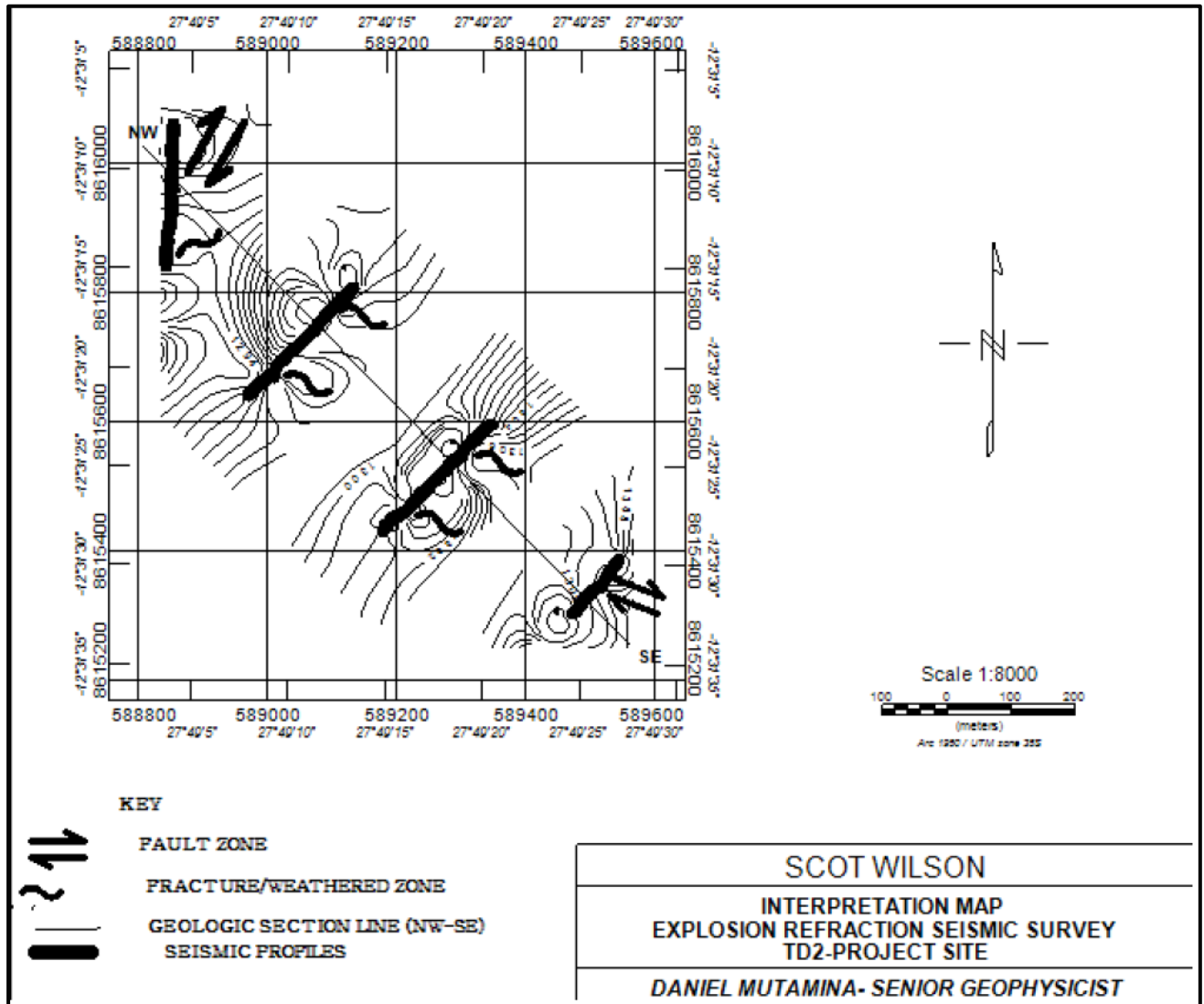


Figure 6.1: The explosion refraction seismic interpretation map of the survey site indicating dipping surface elevation values in the SE-NW direction and the surface projections of the subsurface geological structures that have been detected at depths on the engineering site.

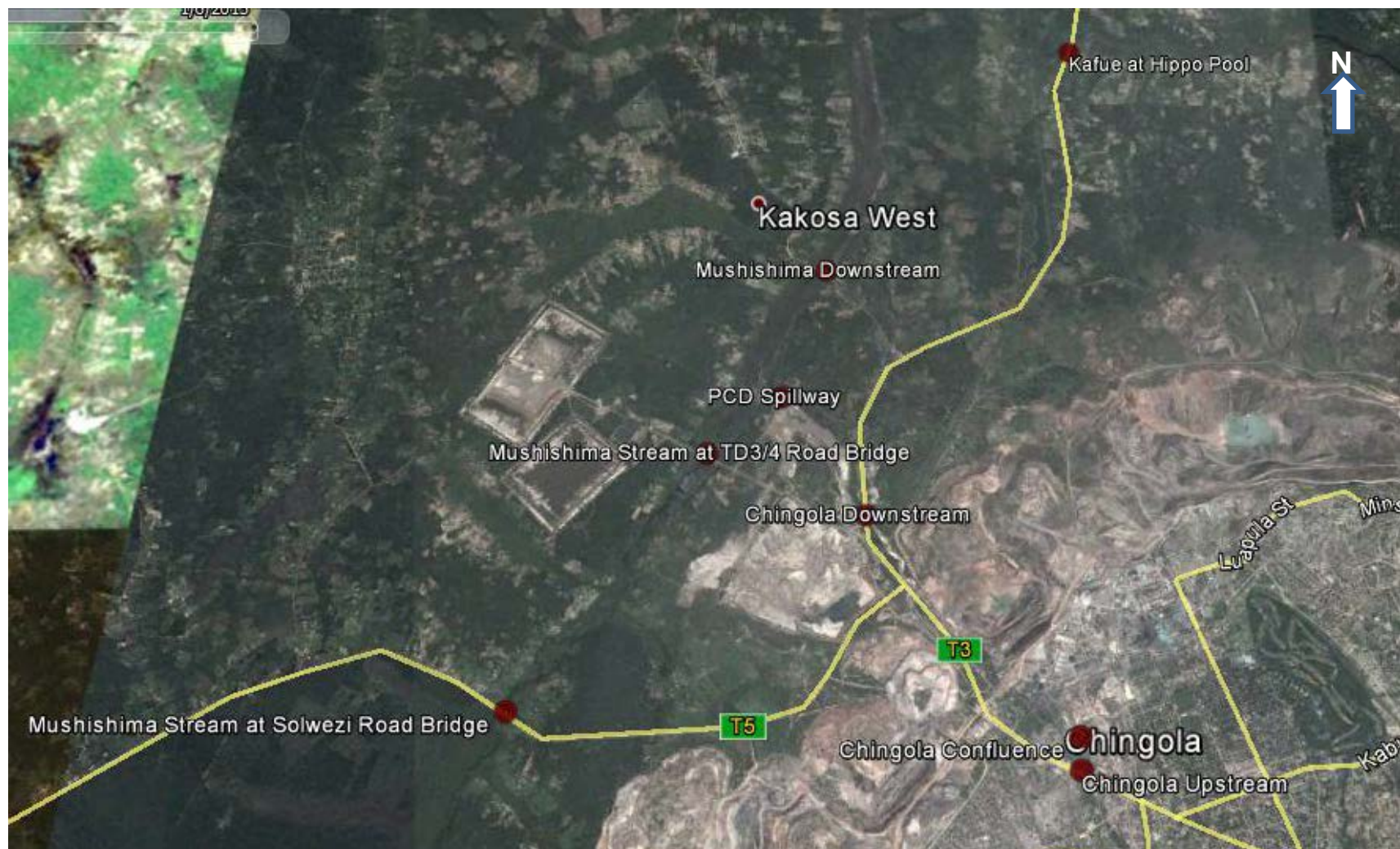


Figure 6.2: Location of Surface Water Sampling Points

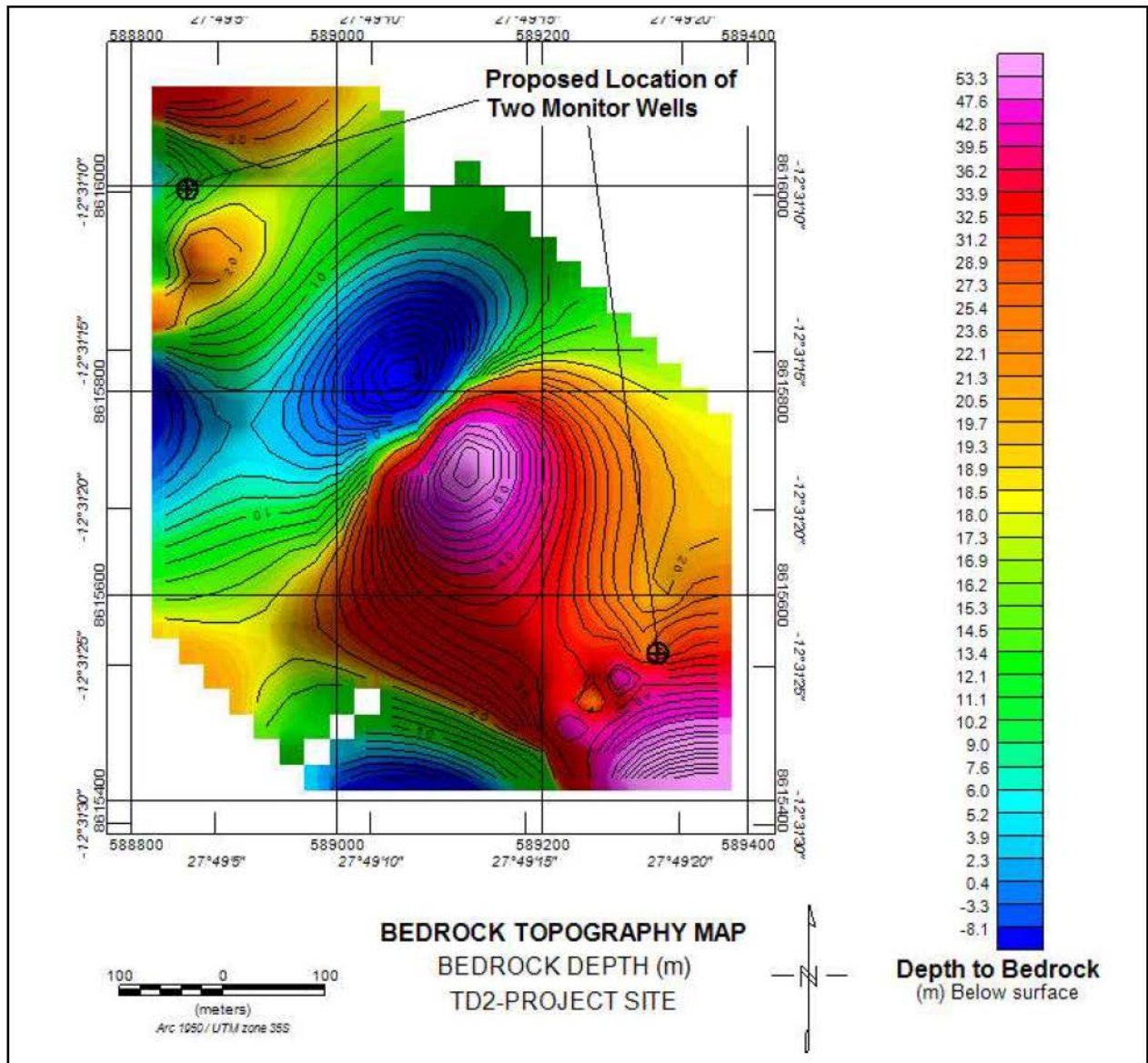


Figure 6.3: Topographic Map of TD2 Project Site showing configuration of surface of unweathered bedrock and location of suitable sites of two monitoring wells

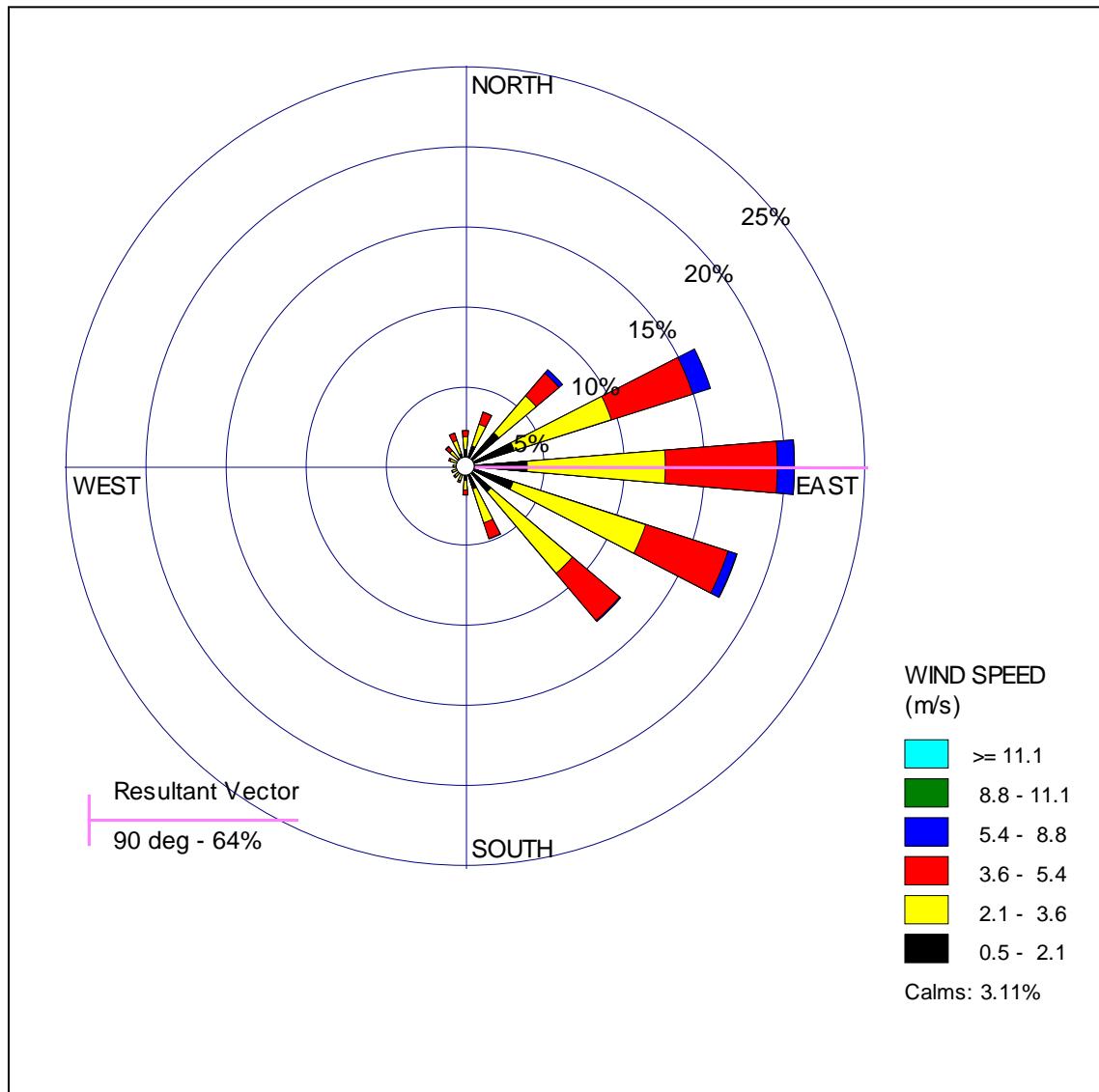


Figure 6.4: Wind Roses based on data available for Mufulira 2010 - The wind rose for the whole year which shows a resultant wind vector of 90°.

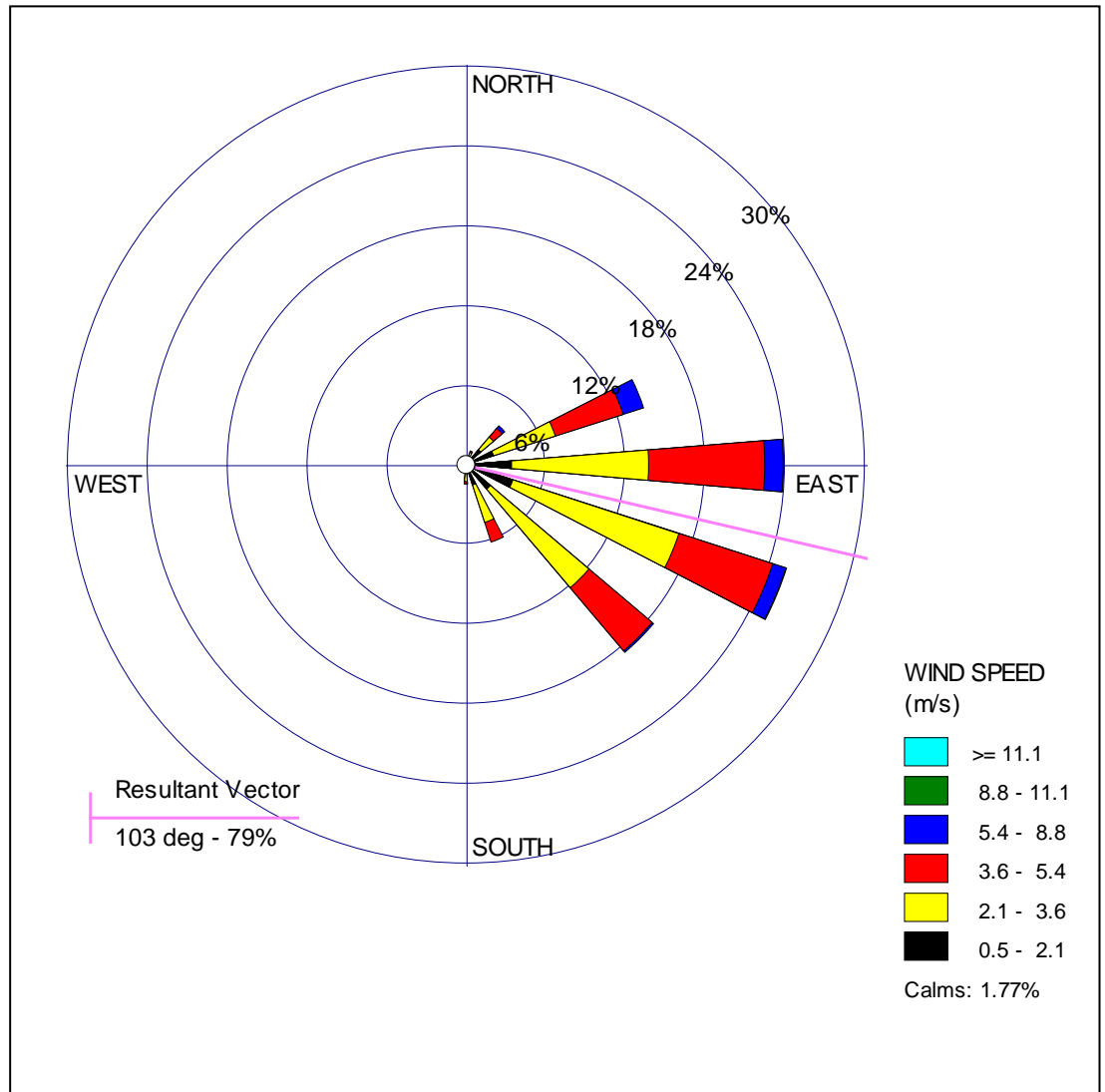


Figure 6.5: Wind Roses based on data available for Mufulira 2010. The wind rose for the dry months May to October which show a resultant wind vector of 104°.

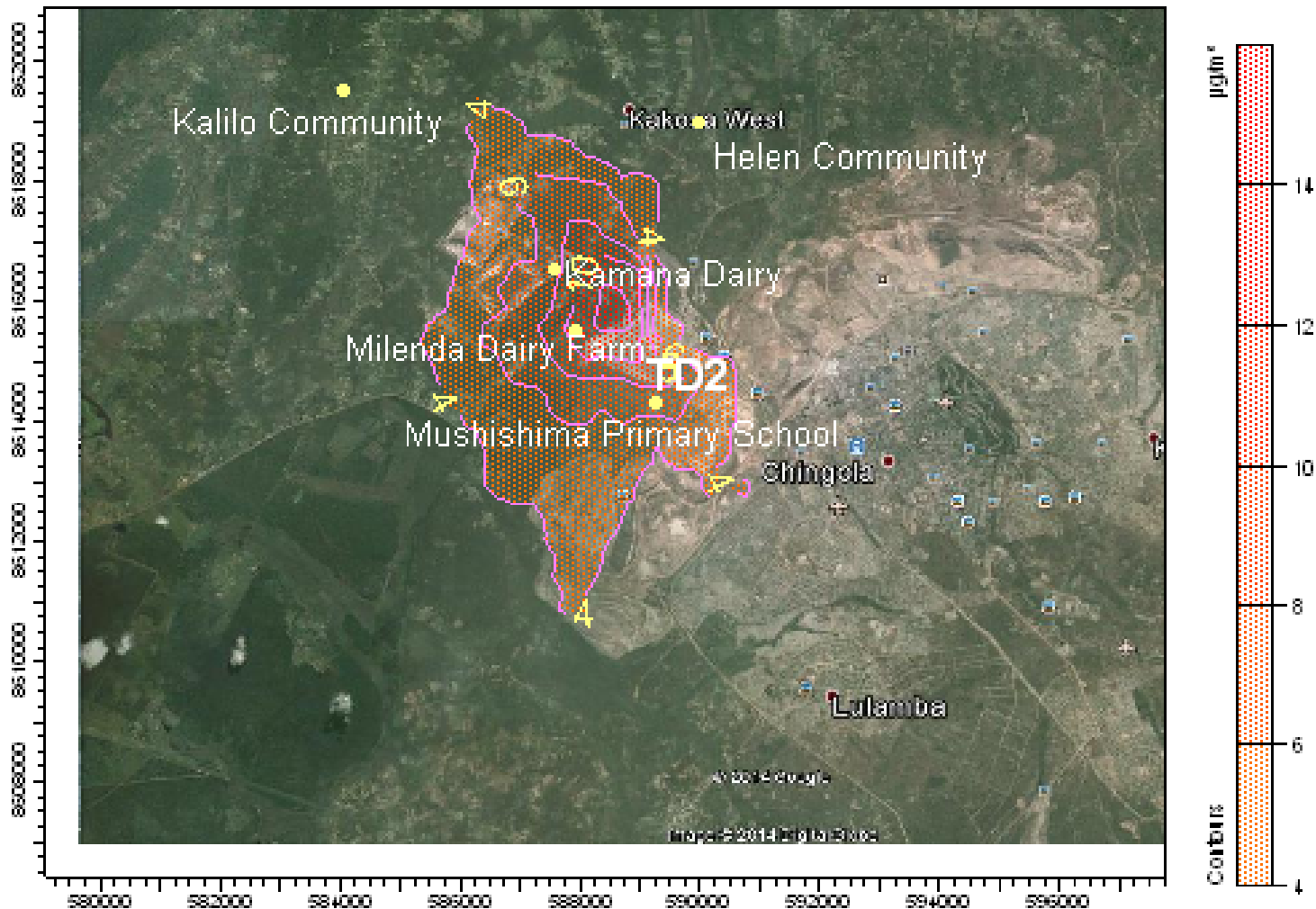


Figure 6.6: PM10 daily maximum ground concentration

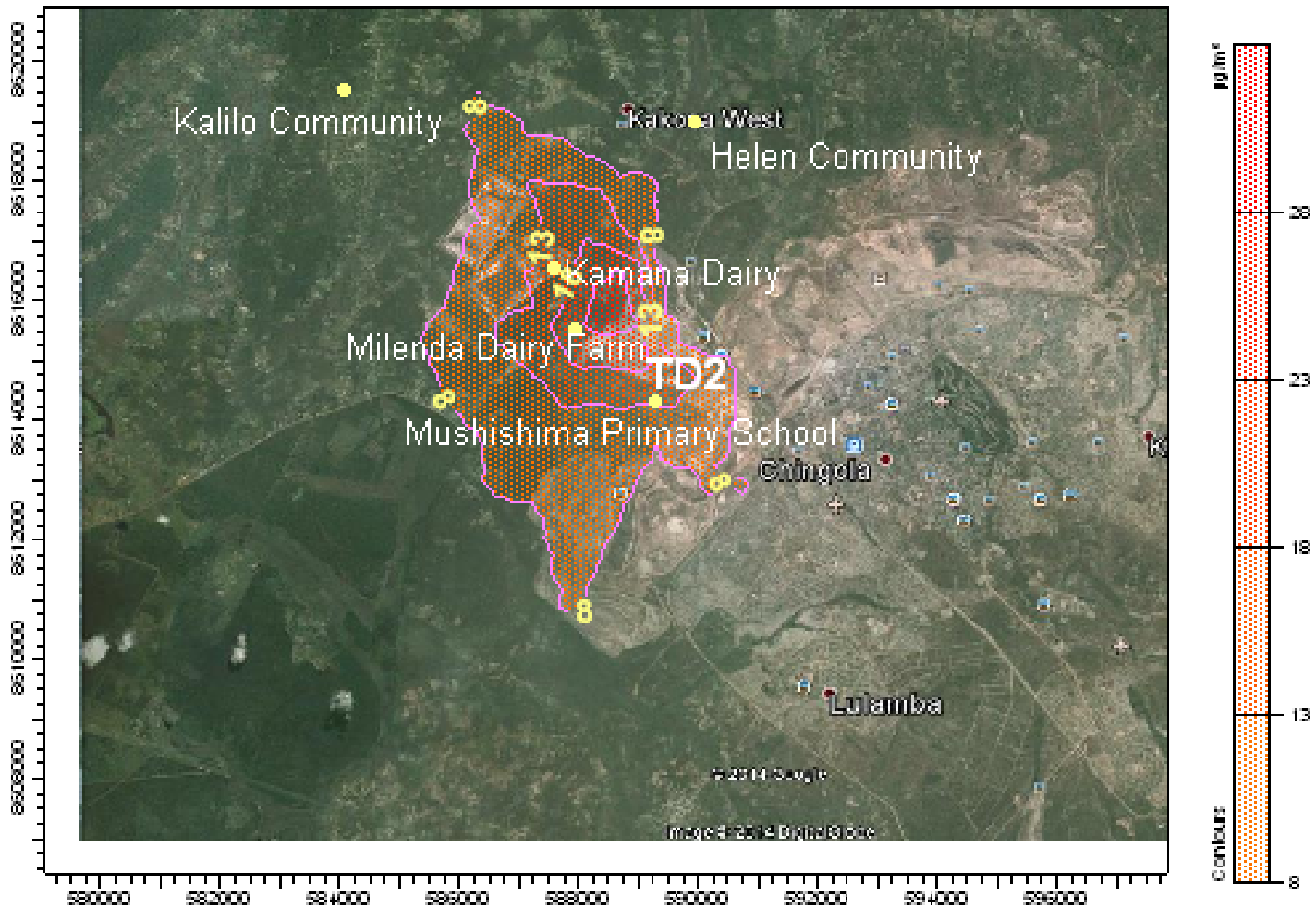


Figure 6.7: TSP Maximum Ground Concentration

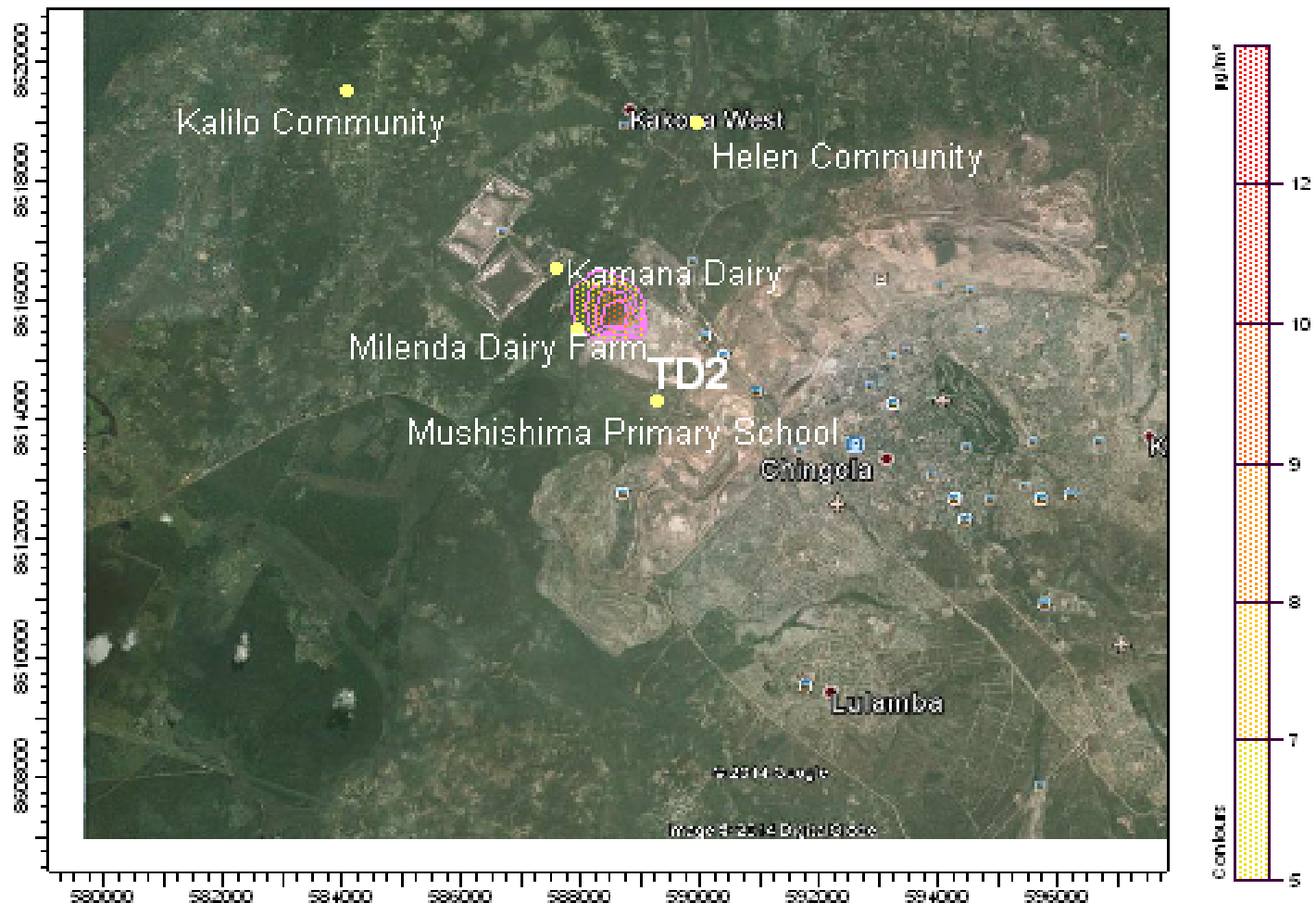


Figure 6.8: TSP Annual Average

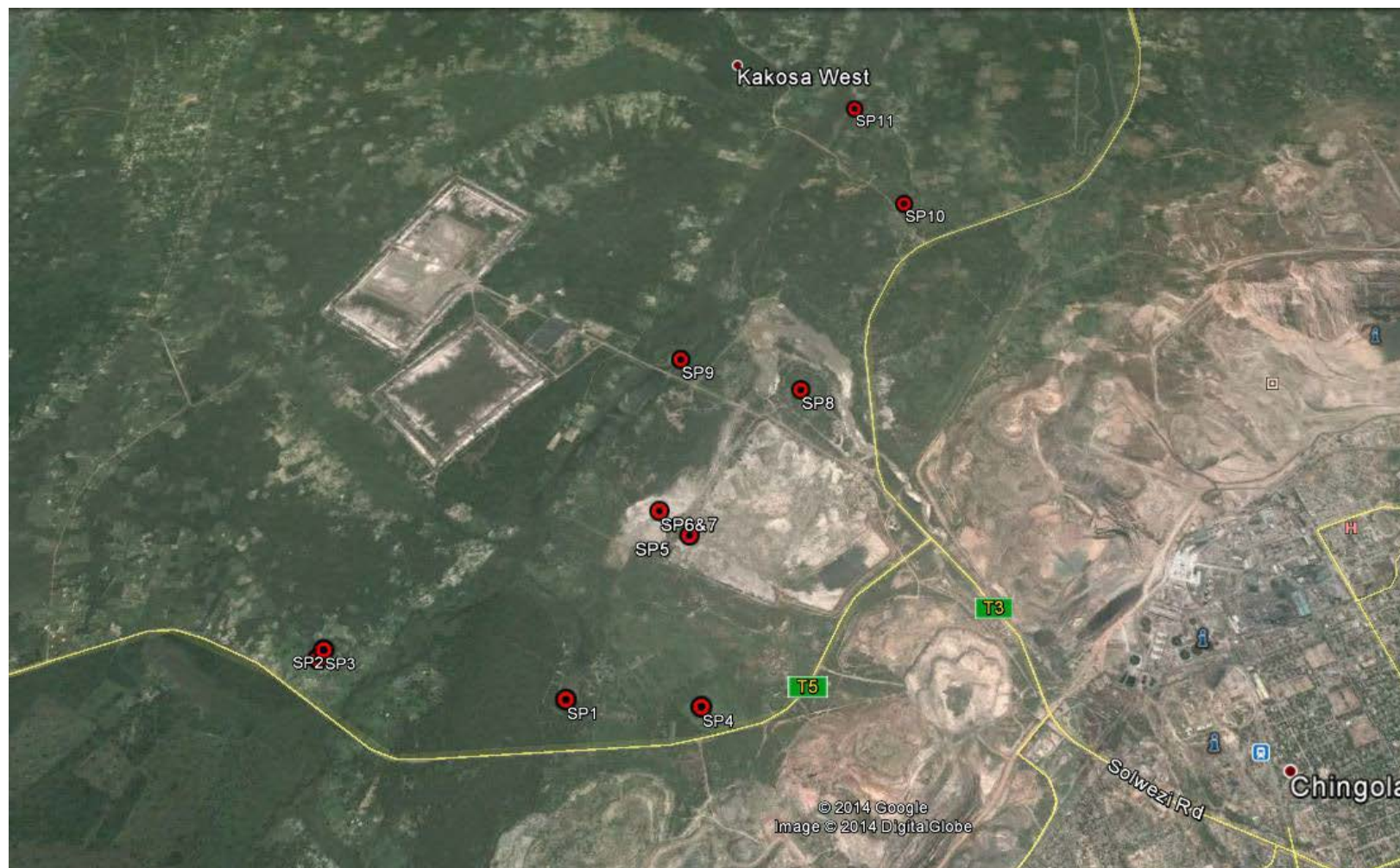


Figure 6.9: Location of Soils Sampling Points

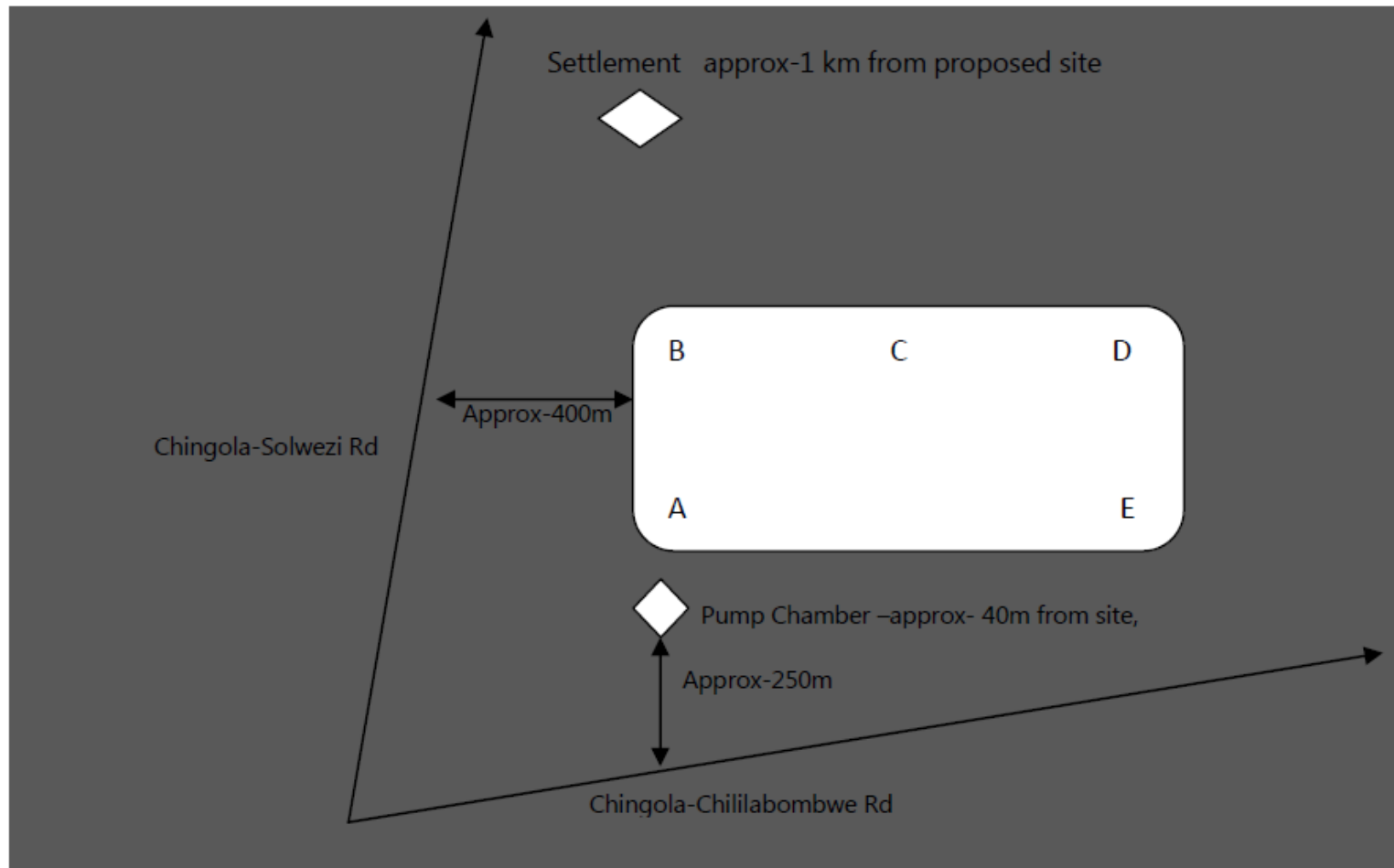


Figure 6.10: Schematic location of noise measurement points

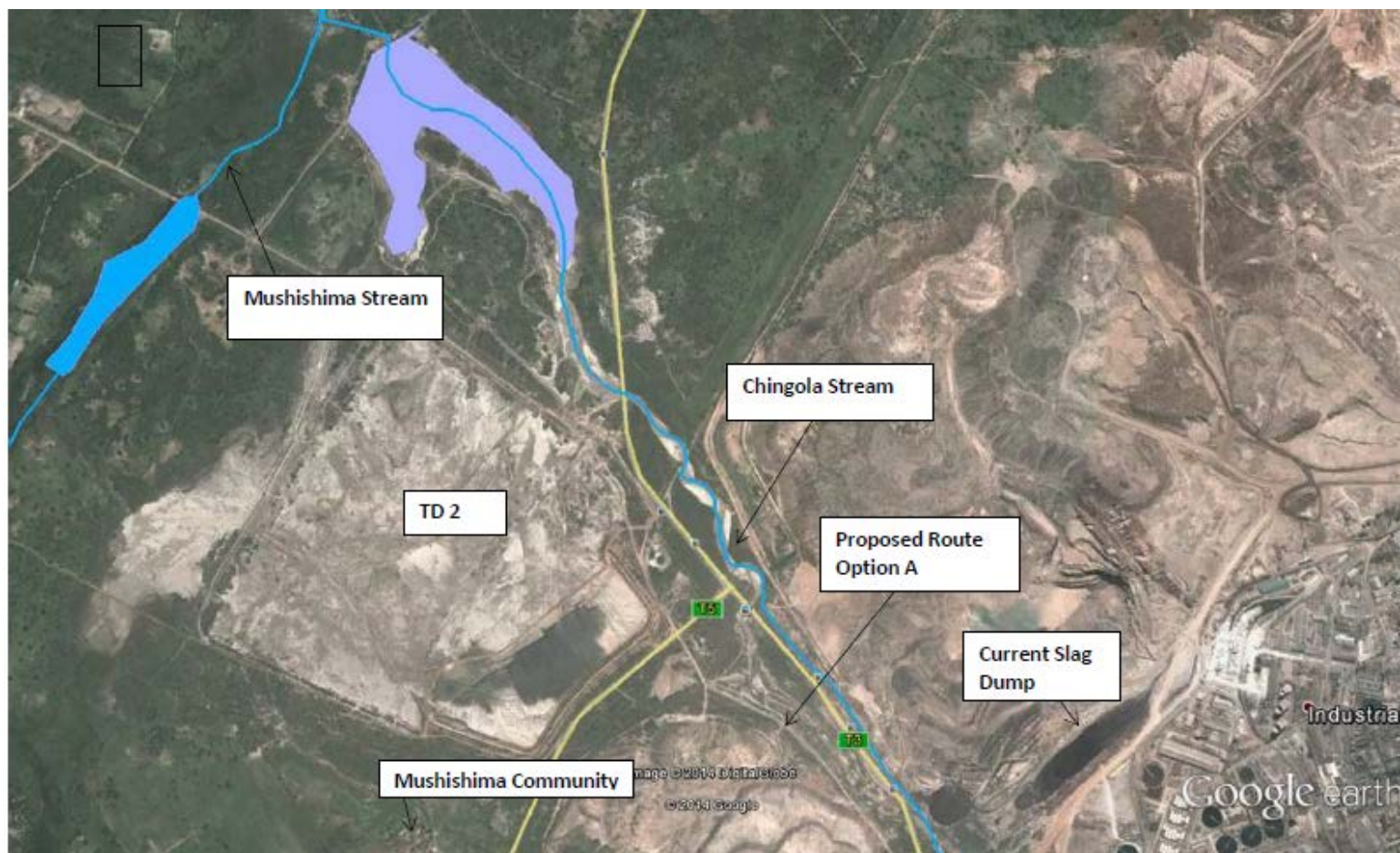


Figure 6.11: Location of the Surveyed Area for Radiological Assessment Study

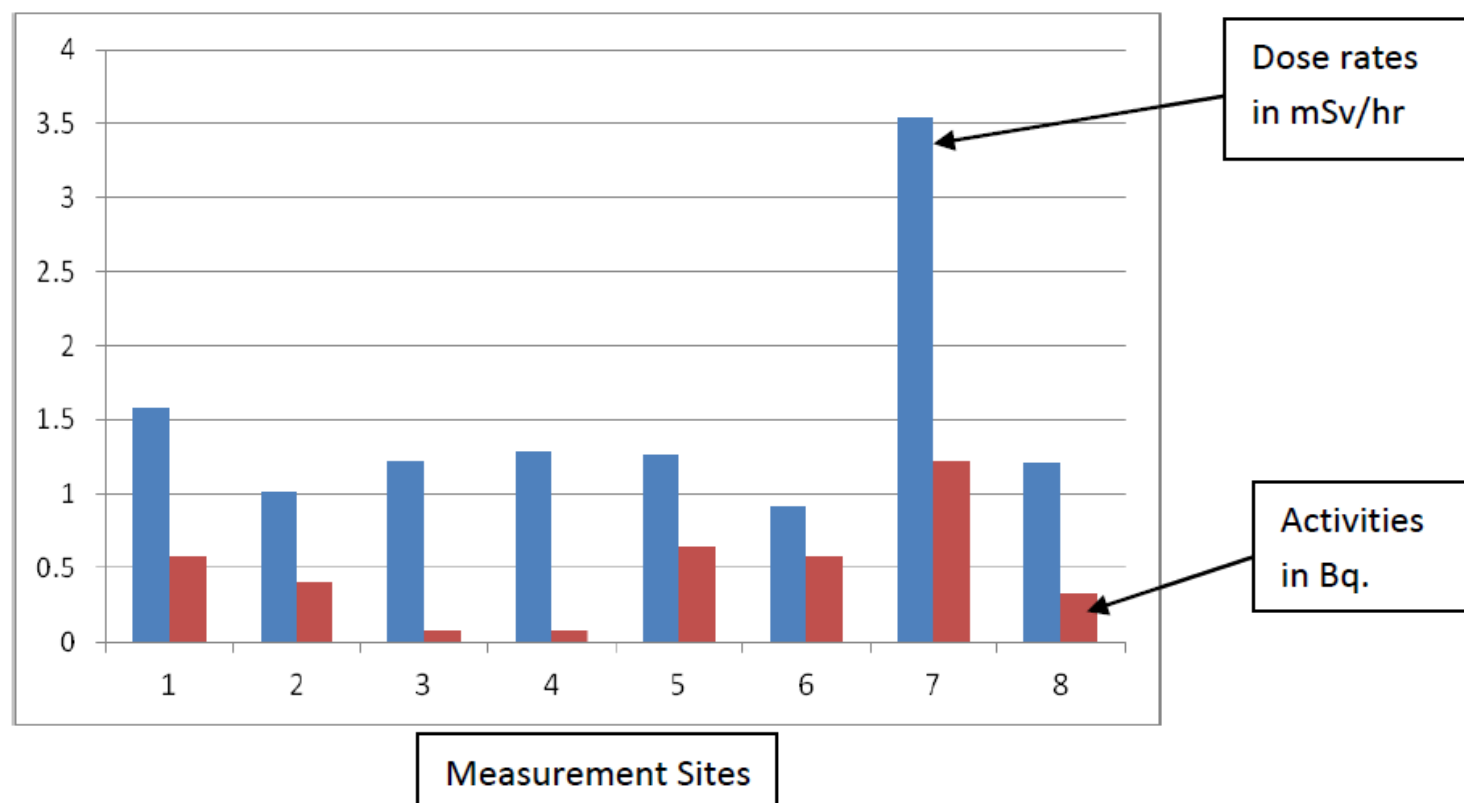


Figure 6.12: Graphical presentation of the results for surface dose rates (mSv/yr) and contamination (Bq)

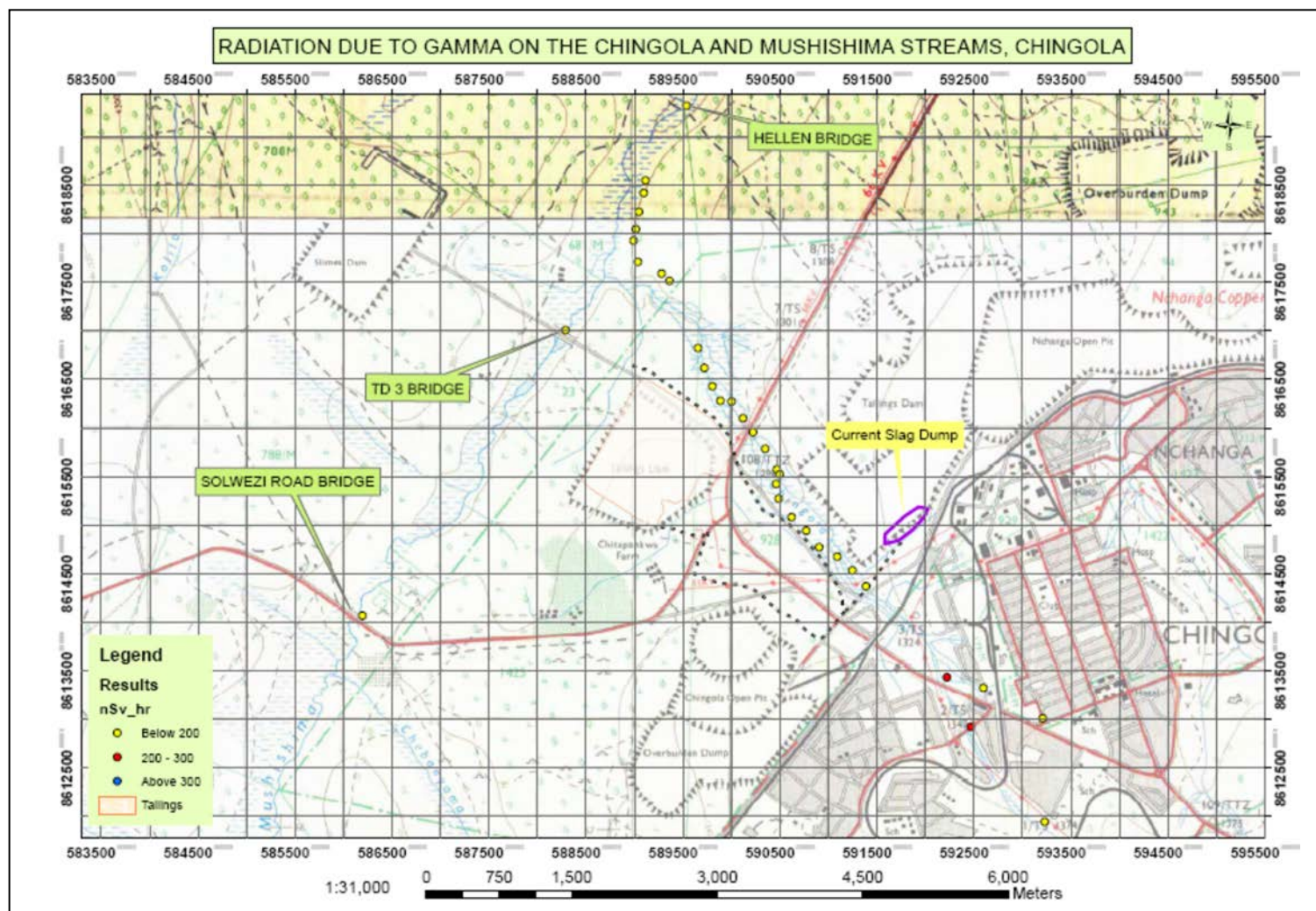


Figure 6.13: Radiation Due to Gamma on the Chingola and Mushishima Streams

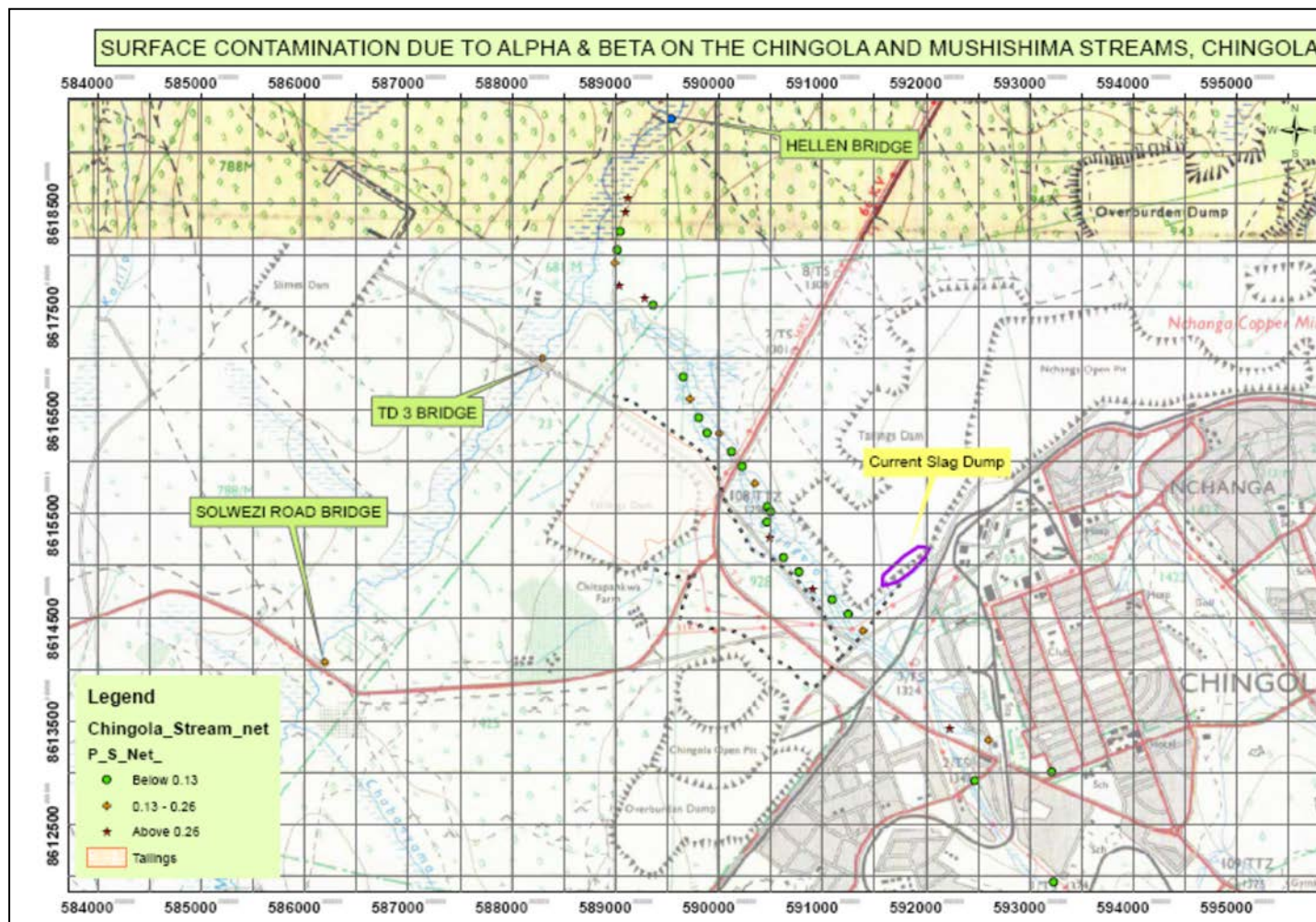


Figure 6.14: Surface Contamination due to Alpha and Beta on the Chingola and Mushishima Streams, Chingola

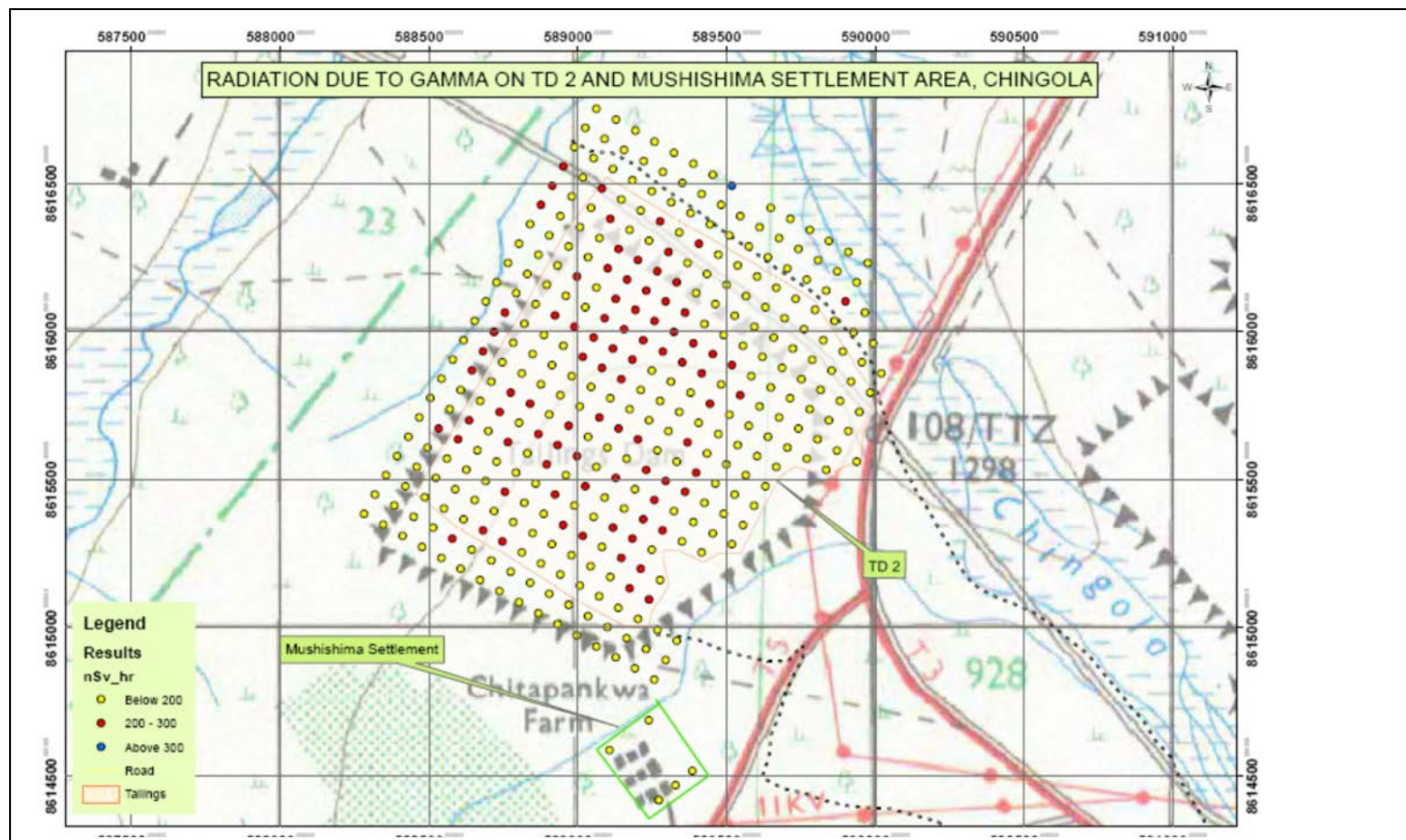


Figure 6.15: Radiation due to gamma on TD2 and Mushishima Settlement Area, Chingola

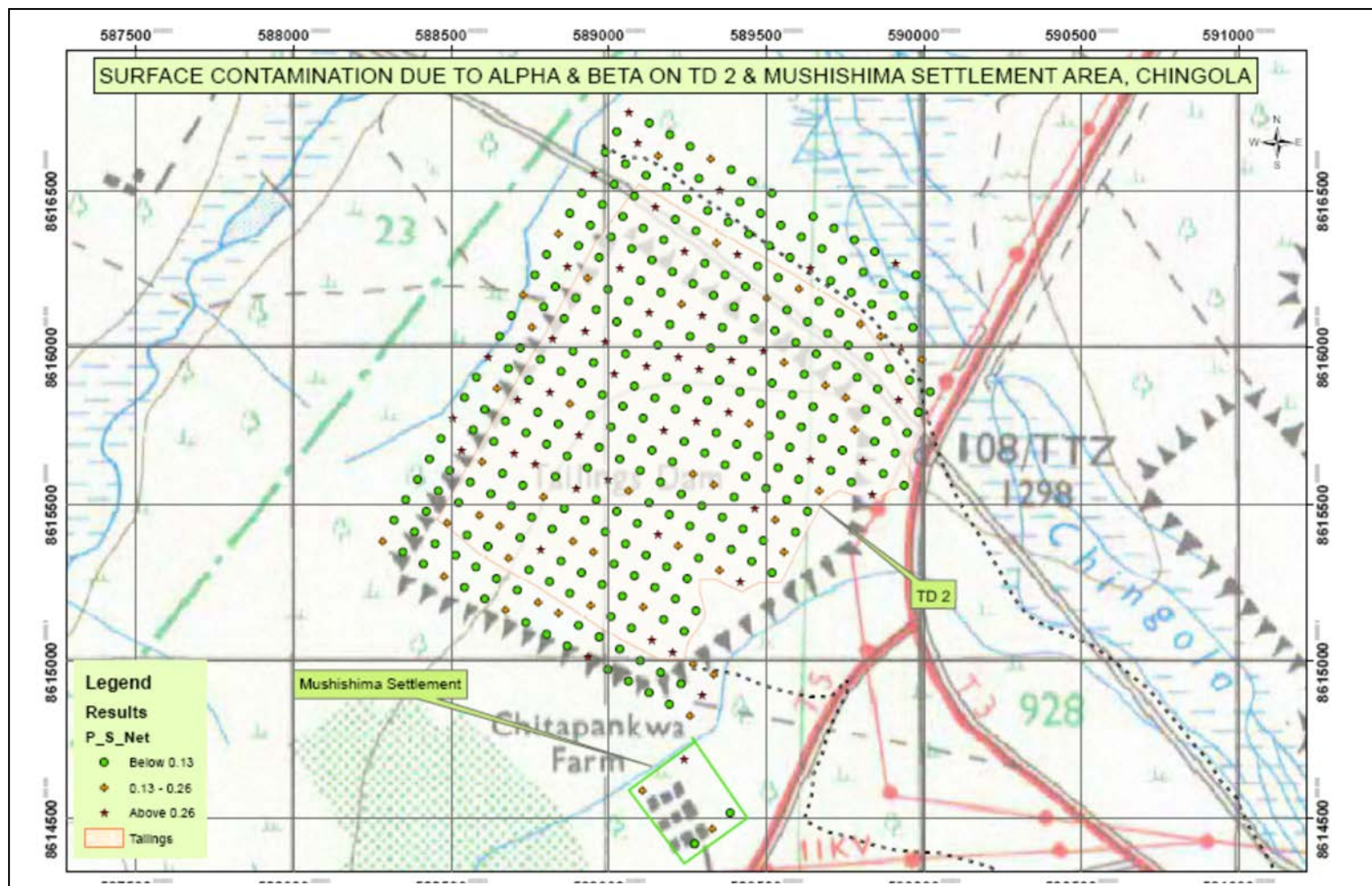


Figure 6.16: Surface contamination due to Alpha & Beta on TD2 and Mushishima Settlement Area, Chingola

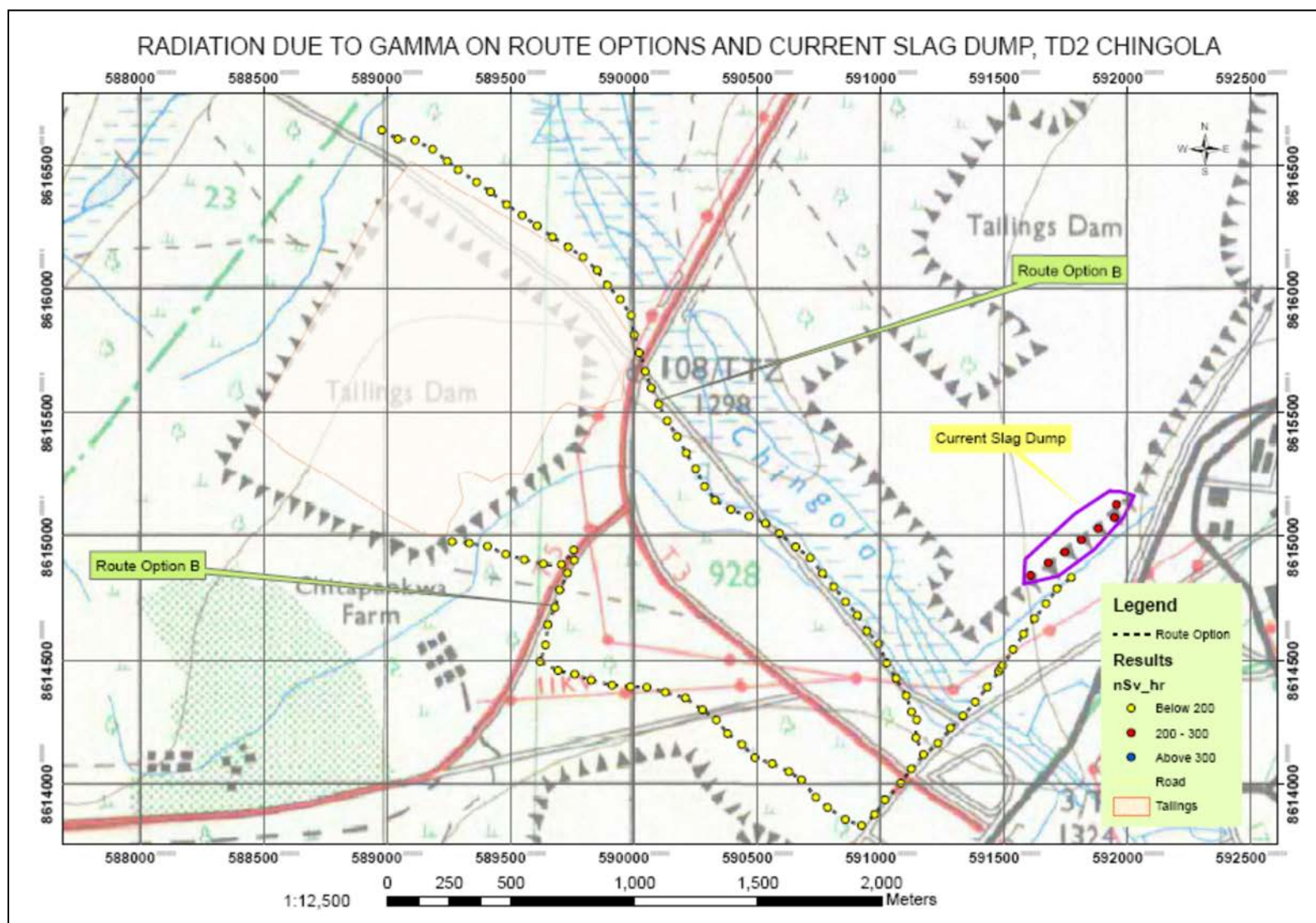


Figure 6.17: Radiation due to gamma on route options and current Slag Dump, TD2, Chingola

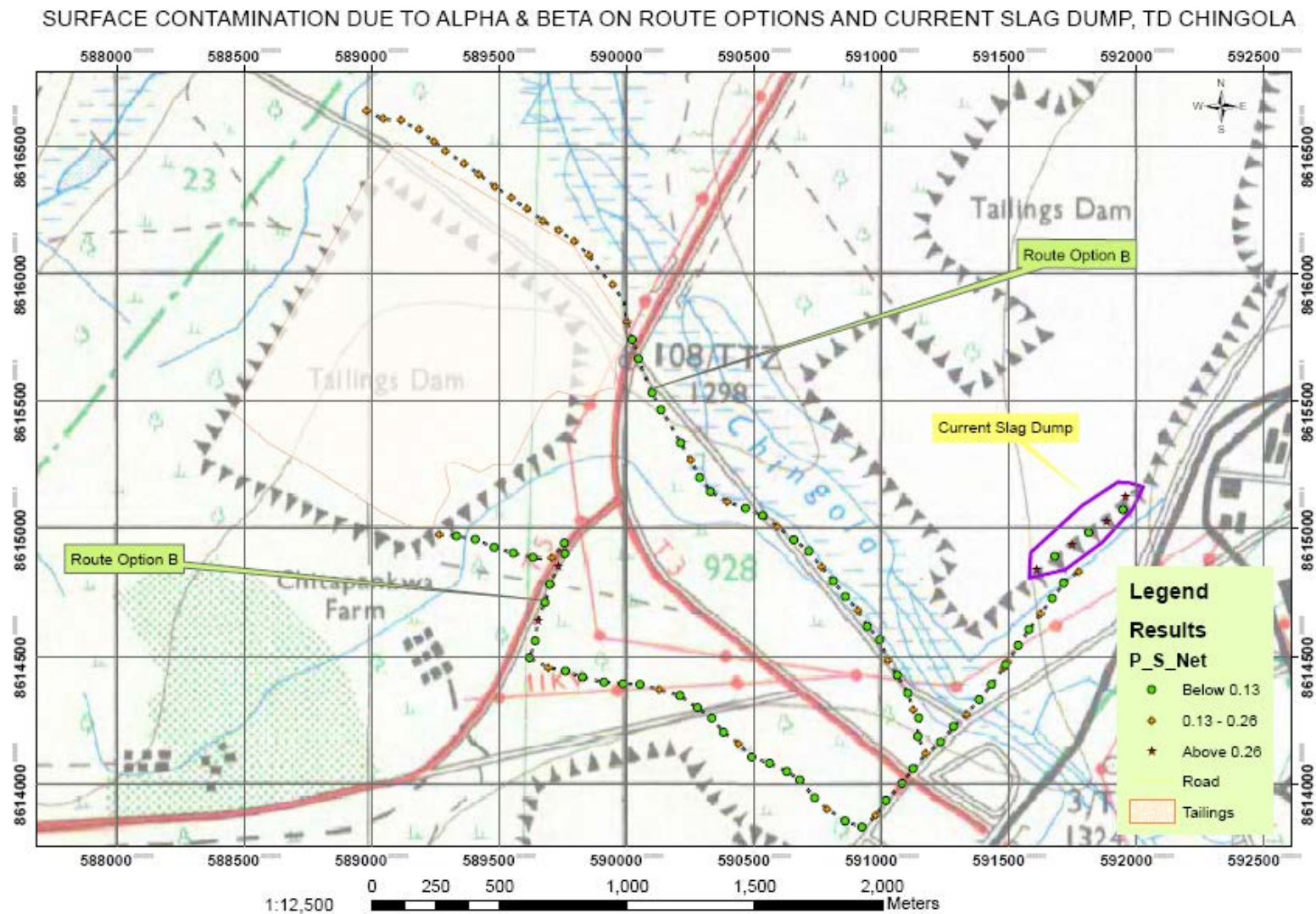


Figure 6.18: Surface Contamination due to Alpha & Beta on Route Options and Current Slag Dump

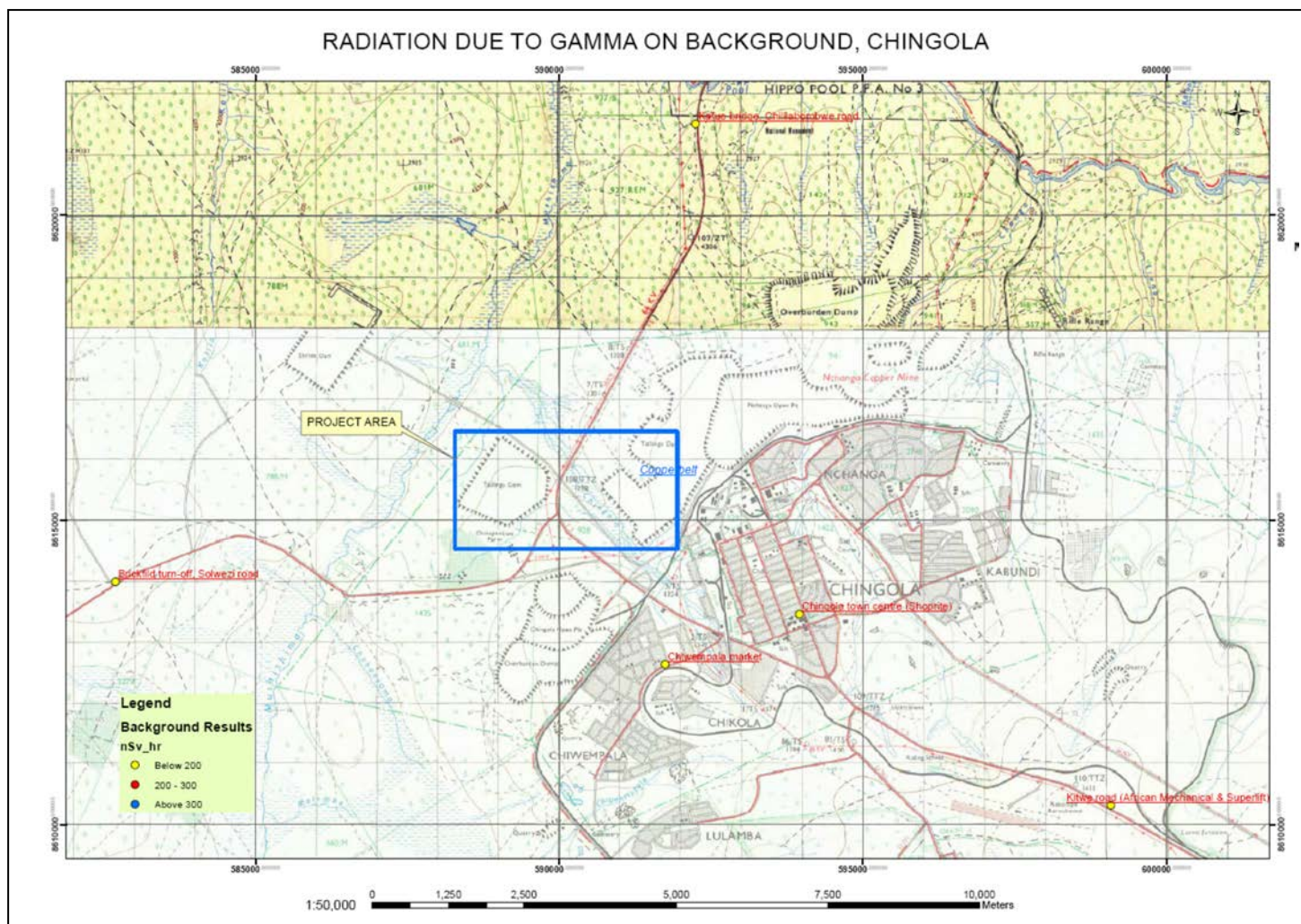


Figure 6.19: Radiation due to Gamma on background ,Chingola

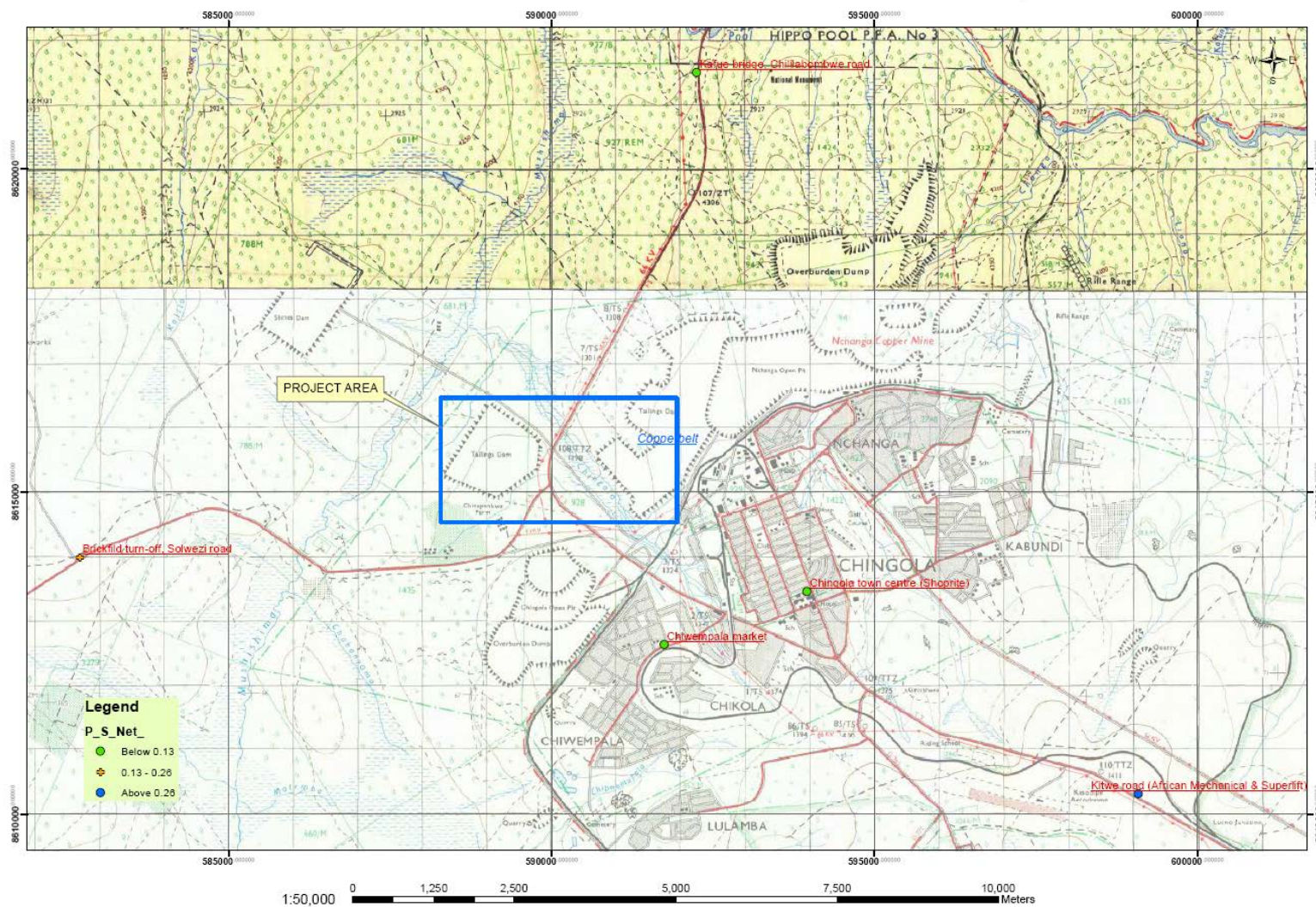


Figure 6.20: Surface Contamination due to Alpha & Beta on Background, Chingola



Figure 6.21: Map showing Gamma Radiation Sampling Points on the Current Slag Dump

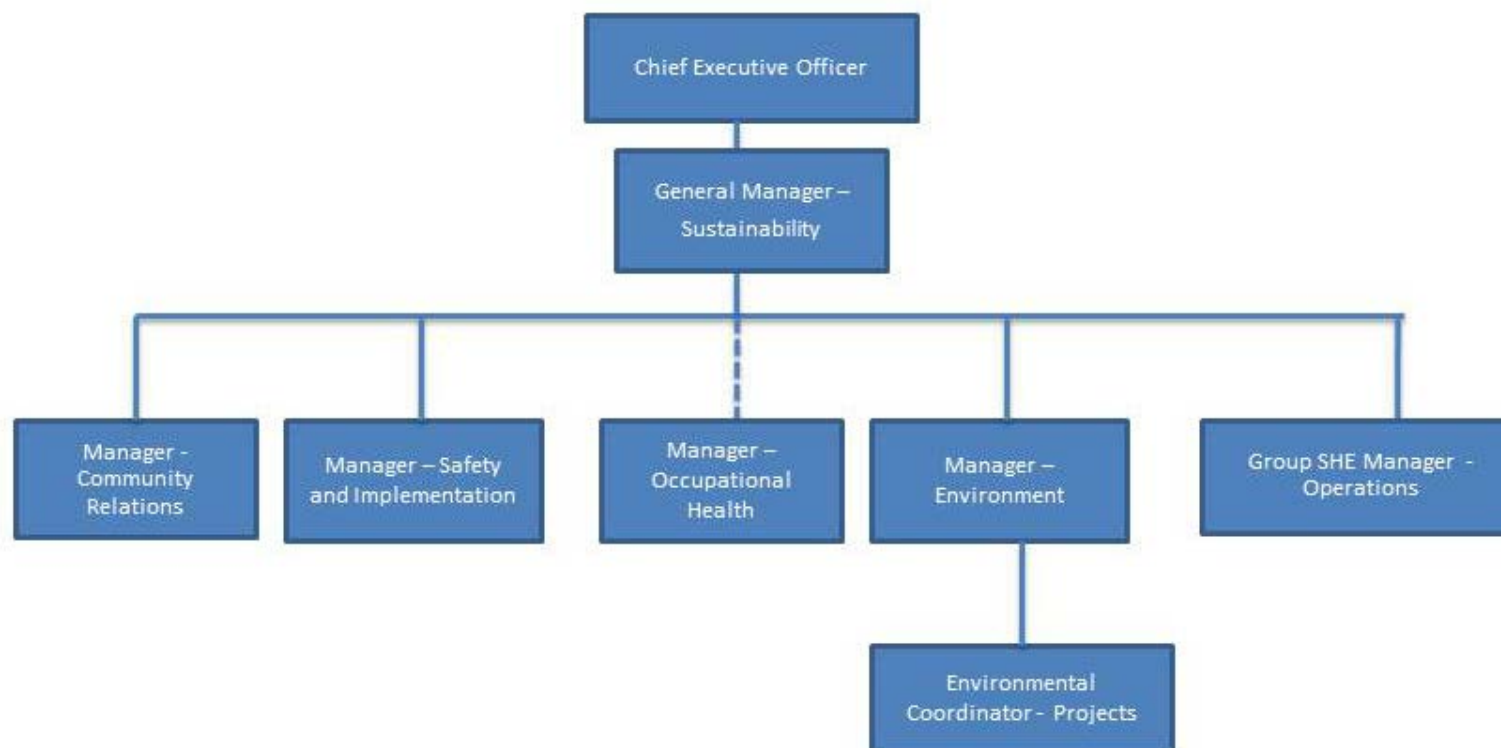


Figure 8.1: Corporate Sustainability Organisation: Management

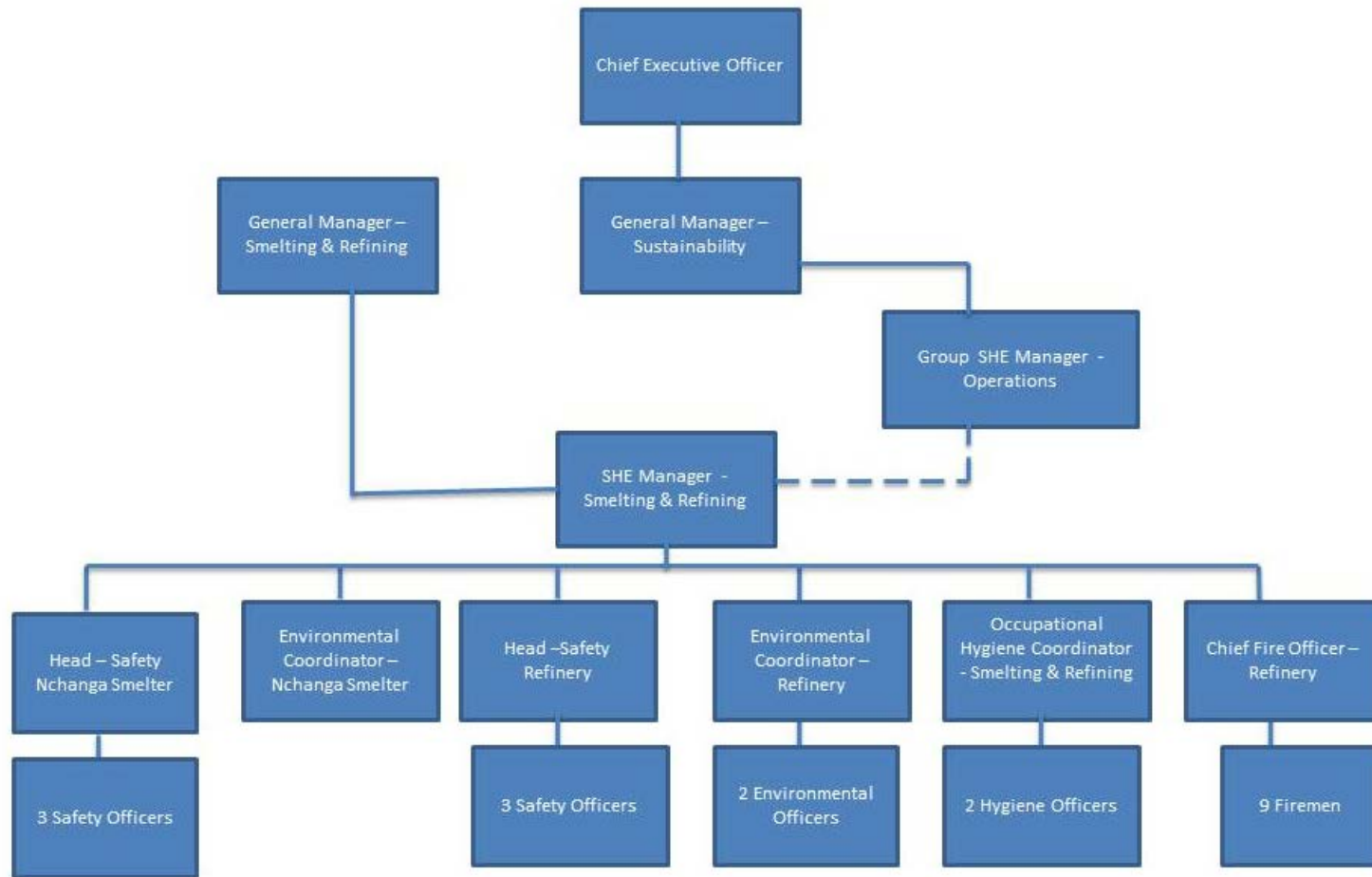


Figure 8.2: Sustainability Organisation: SHE Operations