



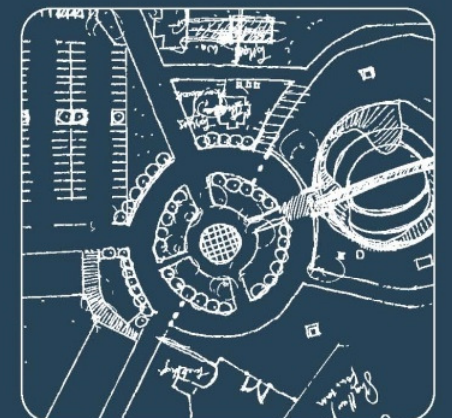
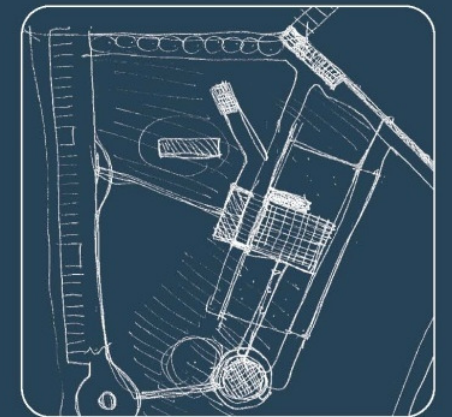
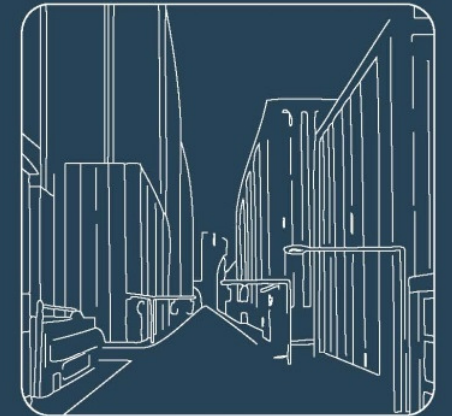
DRAFT VERSION 1

## RURAL SETTLEMENT DEVELOPMENT PLAN

**UMZIMVUBU LOCAL MUNICIPALITY**

**PHASE 3**

**AUGUST 2014**



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## RURAL SETTLEMENT DEVELOPMENT PLAN: UMZIMVUBU LOCAL MUNICIPALITY

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**AUGUST 2014**

**Prepared for:**

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CONTENTS

SECTION A: INTRODUCTION.....1

A1. BACKGROUND.....1

A2. OBJECTIVES.....1

A3. SCOPE OF WORK.....1

SECTION B: LOCALITY.....4

B1. PROVINCIAL CONTEXT.....4

B2. DISTRICT CONTEXT.....4

B3. LOCAL CONTEXT.....5

B4. STUDY AREA.....5

SECTION C: GUIDING PRINCIPLES.....7

C1. ENVIRONMENTAL GUIDING PRINCIPLES.....7

C2. AGRICULTURE PRINCIPLES.....8

C3. LAND DEVELOPMENT PRINCIPLES.....9

C4. SOCIAL FACILITIES GUIDING PRINCIPLES.....10

SECTION D: RURAL SERVICE CENTRES.....11

SECTION E: SETTLEMENT PLANNING.....12

E1. POPULATION.....12

E2. NUMBER OF HOUSEHOLDS (DWELLINGS).....13

E3. EXTENT OF INDIVIDUAL SITES.....13

E4. PROJECTED GROWTH ESTIMATES.....13

E5. SETTLEMENT GROWTH.....14

SECTION F: IMPLEMENTATION PLAN.....214

## SECTION A: INTRODUCTION

Messrs Tshani Consulting CC, has been appointed by the Umzimvubu Local Municipality (herein after referred to as “ULM”), to undertake the development of a Comprehensive Rural Settlement Development Plan for the Umzimvubu Local Municipal area of jurisdiction.

This document serves as an outcome report of Phase Three of the project, being the Rural Settlement Development Plan.

### A1. BACKGROUND

Umzimvubu Local Municipality comprise of both urban and rural settlements. Over the past years extensive research, planning and development has been undertaken within the urban fabric of the municipality. However, within the context of rural settlements there is not the same level of information or understanding of the needs of the various communities in terms of land, services and housing.

Umzimvubu Local Municipality has systematically implemented most of the recommendations as contained in the Alfred Nzo District Spatial Development Framework 2007. However, the plan is more than five years old and in certain dynamics within the rural areas.

This project is Phase 1 of the three year programme which will ultimately result in township establishment within a rural context. In order for Umzimvubu Local Municipality to review its overall spatial development plan and more specific to undertake settlement planning for the provision of basic services and housing, a new more updated development plan for the rural areas is required.

### A2. OBJECTIVES

Umzimvubu Local Municipality having realizing the situation identified the need to appoint service providers to assist with the development of Rural Settlement Development Plan in order to achieve the following objectives:

- ▶ *The need to focus on the rationalising the use of land and resources in rural areas*
- ▶ *The need to focus on what is achievable in development terms and how this related to spatial and economic development proposals*
- ▶ *The need to understand the urban – rural interface in certain parts of the study area*
- ▶ *Identification and protection of prime productive land in the rural areas*
- ▶ *Controlling the haphazard growth and development, thus promoting optimal use management of land in the rural areas.*
- ▶ *Discouraging illegal occupation of land with due regard to the informal land development process.*

The following activities are required for the Rural Settlement Development Plan.

- ▶ *Identification of the most appropriate levels of service to be provided for the rural settlements.*
- ▶ *Identification of existing infrastructural and social services and where the gaps are.*

### A3. SCOPE OF WORK

The following is the Scope of Work that was followed during the undertaking of this project.

#### Phase 1: Project Initiation and Finalisation of Terms of Reference

##### Pre-Planning

This phase was initiated with a meeting between the **Service Providers Project Manager** (Tshani Consulting CC) and the client, i.e. the **Umzimvubu Local Municipality** to refine and finalize the scope of work and the Work Programme.

Thereafter, a ‘**Service Level Agreement**’ was signed between the Client and the Service Providers Project Manager.

##### Inception

An Inception Report was drafted and comprised the finalized Scope of Work, Methodology, a Communication Plan, as well as the agreed to ‘Timeframes’, ‘Budget’ and ‘Payment Milestones’.

A Project Steering Committee was identified with the client at the inception meeting and invites were sent out immediately. At the 1st Project Steering Committee meeting, the Inception Report was presented which included the Methodology, Communication Plan and the Timeframes. This session was used to collect any data that the stakeholders had to assist the process.

##### Deliverables

- ▶ *Signed Service Level agreement*
- ▶ *Detailed **Inception Report and Project Plan**: depicting agreed Methodology, Phasing and Timeframes*
- ▶ *1<sup>st</sup> Project Steering Committee Meeting*

##### Time requirement

Three (3) Weeks

#### Phase 2: Analysis and Review of Rural Settlements in ULM

In terms of meeting the objectives of the project and more specifically the objectives of this phase, Tshani Consulting CC collected and analysed information through desktop investigations and in the field primary research collection. Tshani Consulting CC conducted site visits to each rural settlement within the municipal area and met with the ward committees to collect information: -

##### Identification of spatial location: -

Base data (Existing Geographical Information Systems –GIS) was utilized to identify all existing settlements within the ULM. All existing information and data relating to the settlements was obtained from the Department of Human Settlement, Eskom, Department of Water Affairs and District and Local Municipality documents i.e. Integrated Development Plan and Spatial Development Frameworks.

Once the documentation was obtained, Tshani Consulting CC analysed the information and confirmed the ***spatial location of all settlements, their respective densities and the configuration of all settlements.***

A desktop analysis was undertaken through analyzing various policy documents that have been created for the area of jurisdiction in order to analyse the existing demographic trends and community dynamics that exist and information was used from the Census 2011 statistics to get information on the demographic patterns that exist.

#### **Settlement name and alternative name: -**

Tshani Consulting CC worked with the municipal officials to identify the registered Settlement names that the municipality recognizes. Thereafter Tshani Consulting CC worked with the ward councilors and ward committee representatives to verify the names and any alternative names of all the settlements.

#### **Identification of gaps with infrastructure and social services: -**

Tshani Consulting CC, during our site visits to each site, identified all the social services available within the ward.

From an infrastructure perspective, we liaised with the ward committee and identified what infrastructure is available within the ward i.e. water, sanitation, roads and stormwater, electricity, etc. We liaised with the Water Services Authority (WSA) to obtain information on the status of water and sanitation within the settlements.

#### **Land Use: -**

When the site visits were completed for each settlement Tshani Consulting CC completed a detailed land use survey and identified land use for settlement, commonage, grazing and arable purposes.

#### **Land tenure**

As the study is at a rural scale, the forms of tenure that exist within the jurisdiction of the Umzimvubu Local Municipality were identified. This was gathered through the consultation of the relevant departments and traditional authorities, to confirm forms of tenure within the rural settlements and commonages identified.

#### **Settlement planning for rural settlements**

Tshani Consulting CC liaised with the Department of Human Settlements, Department of Local Government and Traditional Affairs, the Umzimvubu Local Municipality, the Department of Rural Development and Land Reform, NGO's and consultants to identify:

- ▶ *All planned settlements which were undertaken in the rural settlements within the municipal area.*
- ▶ *The municipal and district Housing Sector Plans will also be reviewed.*
- ▶ *The level of planning detail that did occur i.e Conceptual, draft layout plan, formally approved, etc.*
- ▶ *The type of legislation utilised will also be identified and captured.*

Tshani Consulting c.c. liaised with all the surveyors utilised by the municipality and the consultants and the surveyors based in the Eastern Cape as well as the Surveyor Generals office to obtain all plans of surveyed settlements. The status of the plans were captured and incorporated into the report.

#### **Workshop**

A workshop and/or stakeholder focus planning session was held with all stakeholders to present the draft Situation Analysis Report and offer them an opportunity to provide input towards an agreed final draft.

#### **Project Steering Committee (PSC)**

A PSC meeting was held to present the Situation Analysis Report.

#### **Deliverables**

Draft Report depicting the settlements and their status in a report format as well as a database electronically providing a summary of the information collected. Tshani Consulting CC also created a Metadata table linked to GIS and capture all the information.

#### **Time requirement**

3 Months.

### **Phase 3: Rural Settlement Development Plan**

Based on the findings of Phase 2, the following has been produced:

#### **Identification of Environmentally Sensitive Land**

Tshani Consulting CC contracted an Environmental specialist on the team to complete a municipal wide environmental sensitivity analysis and identify the impacts on the settlements. All sensitive land has been identified spatially on a plan in relation to the surrounding settlements.

From an agricultural perspective, an Agricultural specialist has completed an agricultural assessment of the area to identify prime productive land that needs to be protected for food security for the residents of Umzimvubu Municipality.

#### **Identification of settlement expansion**

In order to determine settlement expansion, Tshani Consulting CC utilized the existing settlement population and completed a calculation using the municipal population growth rate and completed a projection for each settlement for the next twenty (20) years. Tshani Consulting CC used these calculations to determine the projected Household growth rate over the next twenty (20) years which provided us with the number of additional households required per settlement in twenty (20) years time. Once we had the number of sites required, we would determine the average size of each property within a settlement was determined and these two amounts were multiplied, which then provided us with the additional area required per a settlement to accommodate the additional project growth. We then also calculated the available land in each settlement and determined if the amount we calculated for the project growth could be accommodated within the available land.

## Identification of settlement edges

Settlement Edge refers to the prescribed boundary surrounding a settlement built up area or node comprising a purpose drawn line which demarcates the limit for the built up area.

Tshani Consulting CC was the principle consultant, which led the consortium who prepared the Eastern Cape Provincial Spatial Development Plan (ECPSDP), and who conceptualized the Spatial Structuring Element titled **Settlement Edges**.

Tshani Consulting CC, when meeting with the ward committees discussed with them the uses that occurred on the periphery of the settlement and workshopped where the settlement edge needs to be located. The following Settlement Edge Principles were used to determine the Settlement agreement: -

- ▶ *Preservation or establishment of ecological corridors, as open space and farms/ agricultural land, as green belts or open space links;*
- ▶ *Clearly distinguish between and separate built up settlements and unbuilt natural resource areas;*
- ▶ *Ensure the planned and orderly transition of development from the settlement to non- settlement uses;*
- ▶ *Exclude the following from the settlement area;*
- ▶ *Prominent landform and character areas;*
- ▶ *Environmental areas, including ecological resources (aquatic and terrestrial); protected areas (Conservation sites); sites or areas designated as core and buffer bio – diversity category 1 areas.*
- ▶ *Resource areas including: valuable soils (regardless of the use value) hydrological features (surface and ground water features); high intensity/ potential agricultural resources, and cultural / heritage resources areas.*
- ▶ *Consider services infrastructure (using the barrier effect of major infrastructure such as main roads) in order to limit the extent of development to within the capacity and reach of services infrastructure;*
- ▶ *Higher order roads, access routes and transport infrastructure could be used for guiding future development expansion;*
- ▶ *In cases where cadastral boundaries exist, cadastral boundaries of adjoining land units could be used and where no cadastral boundaries exist, settlement edge lines could be determined on visible or definable features;*
- ▶ *Try to avoid considering existing or pending land use applications for new development when determining a settlement edge;*
- ▶ *Consider the visual impact of development along the edge and the views of the unbuilt (rural) area from the edge;*
- ▶ *Take into account ownership of land and existing land use rights;*
- ▶ *Consider where and how the residents of informal settlements and/ or public funded housing will be housed in the event new development is contemplated alongside the settlement edge; and*
- ▶ *Promote a sense of unified community along the edge.*

## Identification of rural nodes and services centres

Tshani Consulting CC, after collecting all the information on the respective settlements in the earlier phase, identified where the rural nodes and service centers are situated and also recommend the hierarchy of nodes as per the guide provided within the ECPSD relating to nodes.

**Node** – Describes an area of land which has been designated or developed for urban type development in terms of a Spatial Development Framework Plan and is situated within the urban or settlement edge. These nodes or centers include (for example) clusters of houses in small or large built up areas, central business districts, suburban areas, industrial and commercial zones and coastal resorts.

Tshani Consulting CC spatially depicted all proposals using ArcView GIS and will hand over all shapefiles to the municipality upon completion of the project. All information depicted is aligned to the ECPSDP, unless otherwise stated by the client, to ensure alignment and compliance.

## Deliverables

- ▶ *Rural Settlement Final Report*
- ▶ *GIS database and Data Set Report*

## Time requirement

- ▶ *2 Months Consultative Process*



## SECTION B: LOCALITY

### B1. PROVINCIAL CONTEXT

Alfred Nzo District Municipality is located within the jurisdiction of the Eastern Cape Province which is found in the Southern Eastern wing of South Africa. The Municipality is bounded by Kwa – Zulu Natal Province to the North, the Indian Ocean to the East, O.R Tambo District Municipality to the South, Joe Gqabi District Municipality to the South West and Lesotho to the North West of it.



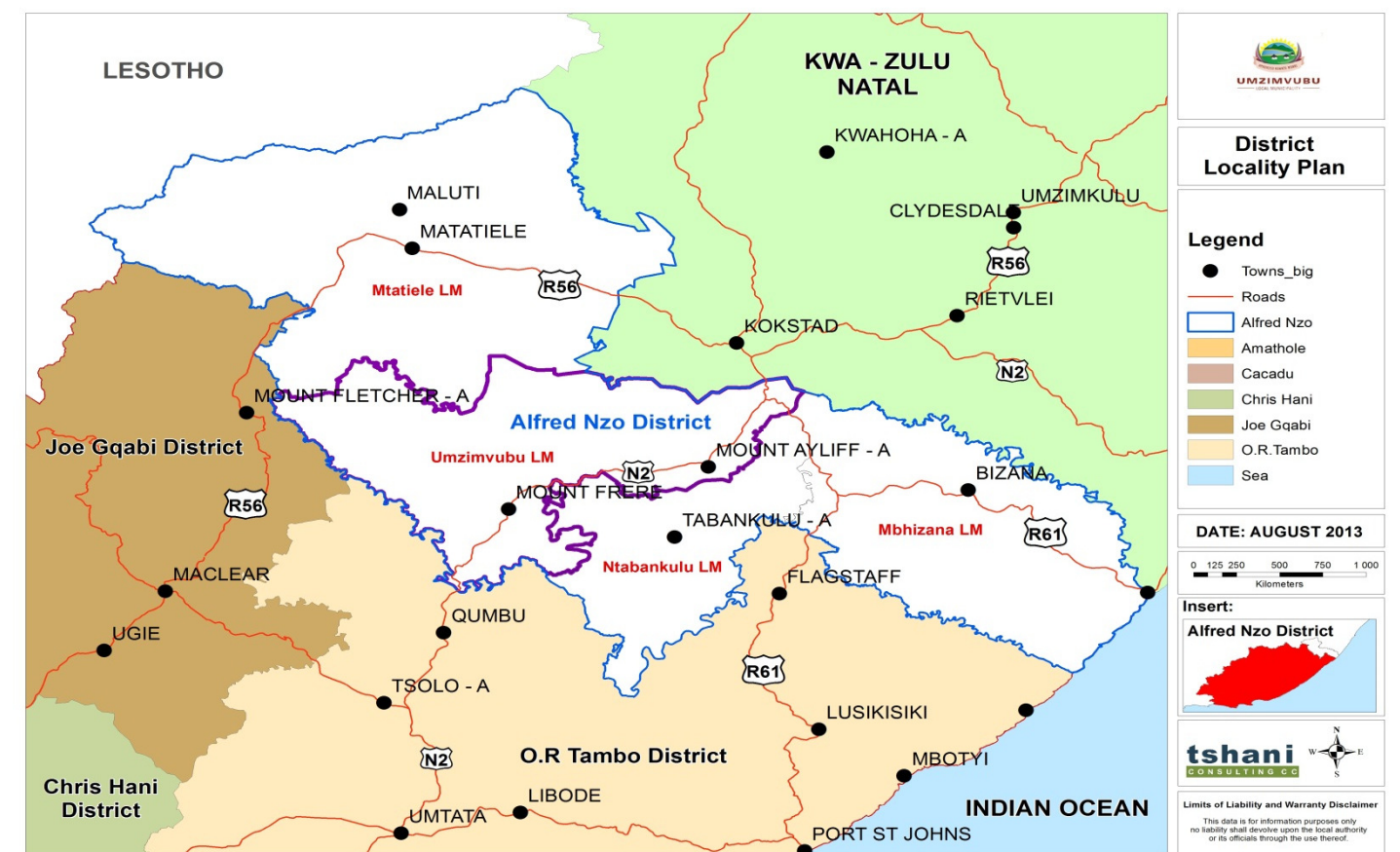
PLAN NO. 1: PROVINCIAL LOCALITY PLAN

### B2. DISTRICT CONTEXT

The N2 is a National Road that transverses through the Alfred Nzo District Municipality, this road forms a very big point of significance of the District Municipality as this is the Longest National Route connecting about four provinces along the Indian Coastline from Cape Town (Western Cape) to Ermelo (Mpumalanga) totalling a distance of about 2255 km in length. The Umzimvubu Local Municipality lie in the heart of the Alfred Nzo District Municipality, and is very strategically in place as it is the only municipality within the Alfred Nzo that is cut across by the National Road (N2). It is also very significant in that it has the administrative town of My Ayliff, where the head district office sits and a major primary node of Mount Frere, where the administrative Local Municipality of Umzimvubu Local Municipality sits.

The Alfred Nzo District Municipality's area of jurisdiction is made up of the following four local municipalities:

- ▶ Matatiele Local Municipality
- ▶ Umzimvubu Local Municipality
- ▶ Ntabankulu Local Municipality
- ▶ Mbizana Local Municipality

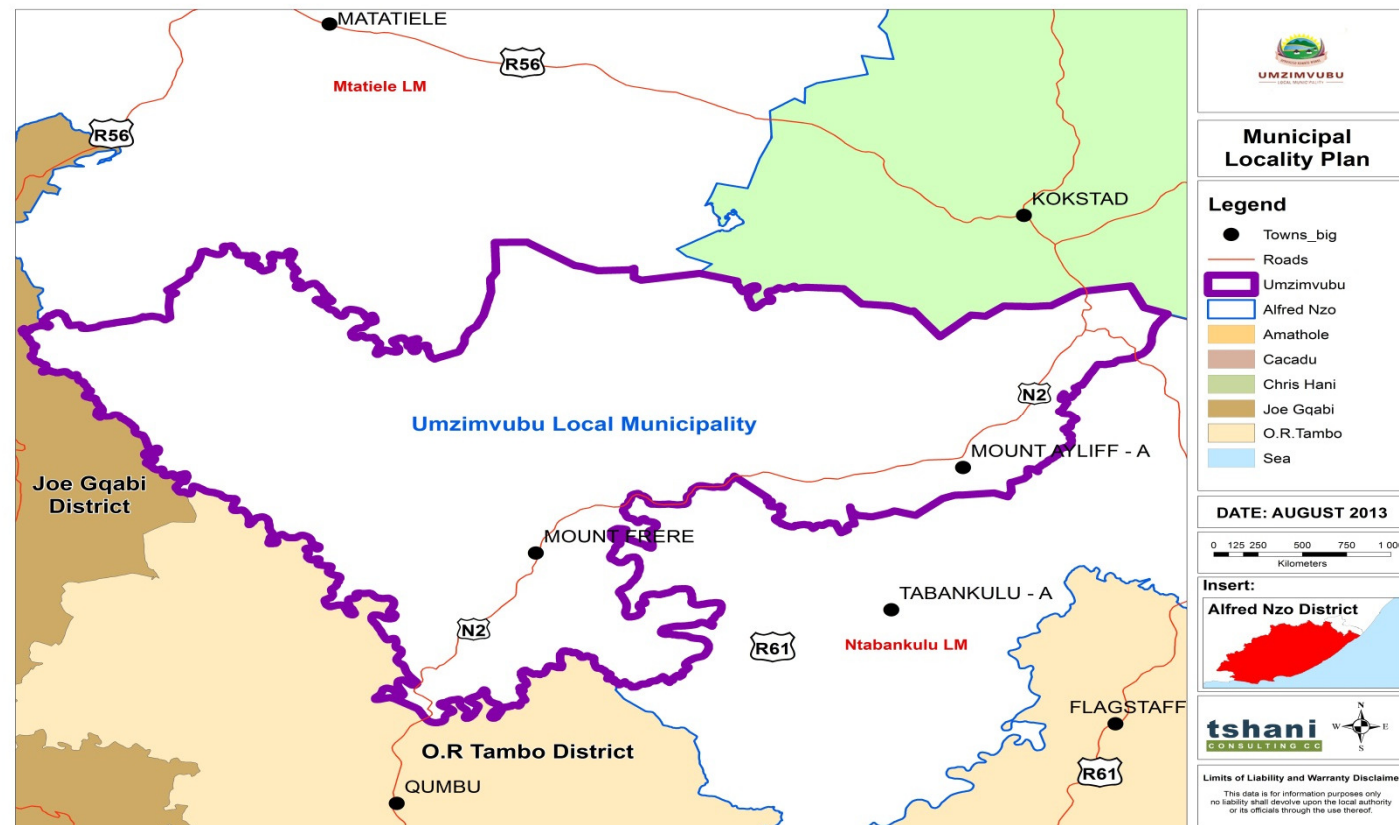


PLAN NO. 2: DISTRICT LOCALITY PLAN



### B3. LOCAL CONTEXT

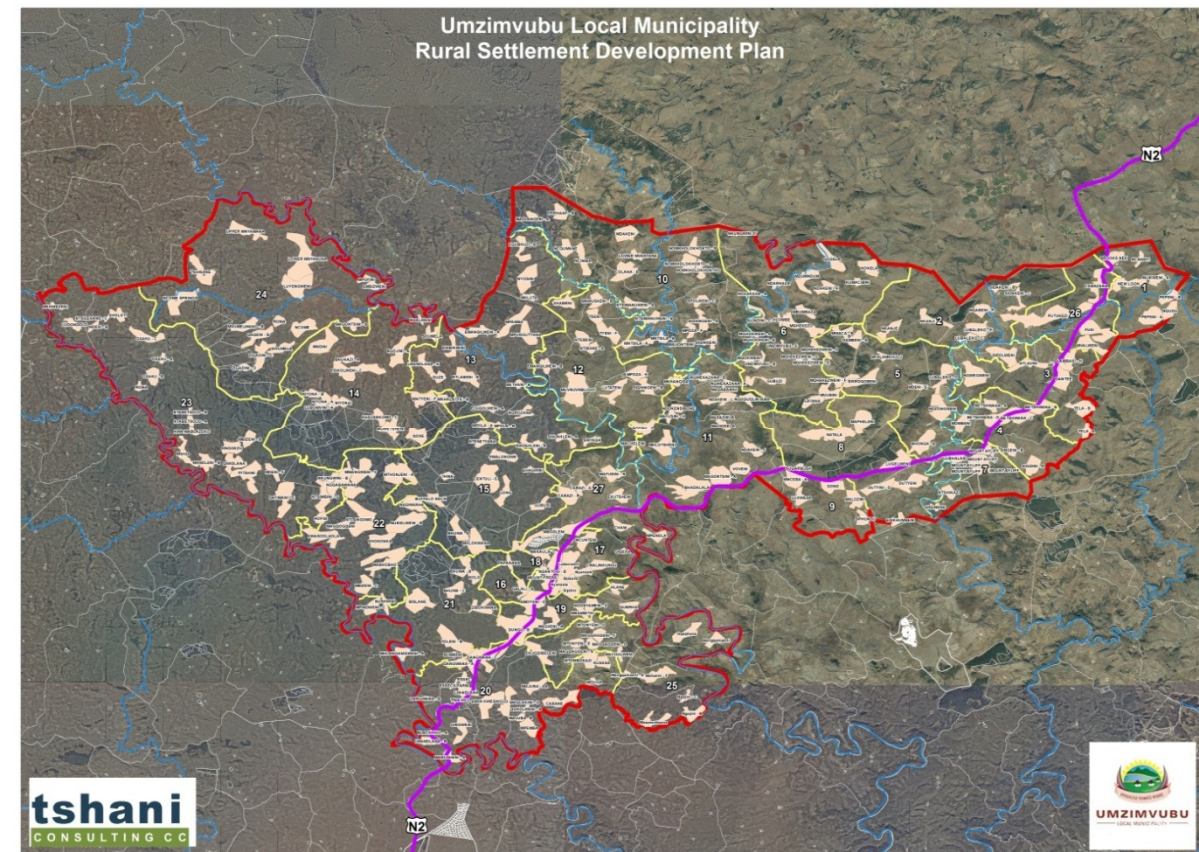
The Umzimvubu Local Municipality is bounded to the East and the far East by Ntabankulu Local Municipality and Mbizana Local Municipality respectively, to the North West by Matatiele Local Municipality and to the North by the Greater Kokstad Municipality which lies within the boundaries of the Kwa Zulu Natal Province. The N2 National Road is a major corridor that traverses through the Municipality which also forms as a basis for the development of the major towns of Mount Frere and Mount Ayliff as refreshment points when travelling along the N2.



PLAN NO. 3: LOCAL LOCALITY PLAN

### B4. STUDY AREA

Umzimvubu Local Municipality comprises approximately 296 rural settlements, of which are depicted on the plan below.



PLAN NO. 4: SETTLEMENT PLAN

### Ward Allocation

The settlements, as indicated on the above plan, fall into different Ward categories. The Table below indicates the names of the various settlements and in which Ward they are located.

TABLE NO. 1: WARD ALLOCATION				
WARD NUMBER	SETTLEMENT			
1	Ncawayi Mjikweni a	New Look Brooks nek	Pepeni b Nqudu	Pepeni A
2	Sidakeni B Sidakeni C	Nqabeni P Lubaleko E	Lubaleko C Nkanji	Nkanje Mnambithi
3	Sipolweni Ntlavini	Lambasi H Dantee	Tela B Tela A	Ngwegweni Xhama
4	Betshwana A Betshwana B	Betshwana C Betshwana D	Mombeni Singeni C	Sigidini A Ngonyameni

TABLE NO. 1: WARD ALLOCATION				
WARD NUMBER	SETTLEMENT			
	Mnqwane	Sigidini B		
5	Mfalamkhulu Lubaleko D Mdeni E	Ndzongiseni Bhanga B	Sikroqobeni Dambeni A	Mwaca B Mqhekezweni F
6	Gogela Kokela Kumacibini Ndakeni K Mdumndum Ndarhala Ngakaxa A	Silindini C Mbumbaza Hlombe Mqhekezo Mghokweni A Sipholweni Mghikweni B	Umzimvubu E Mwaca B Dambeni A Latana Mvubini Gubuzi	Mqhekezweni G Umzimvubu B Mqokweni Mghokweni A Mghokweni B Sidakeni
7	Mount Ayliff	Lubhalasi	Ntshikazi	Sikemane
8	Dutyeni Dutyeni D	Esikhumbeni Lugelweni	Mapheleni Natala	Sugerbush
9	Siphundu Mhlozini	Gono	Mnceba A	Luxwesa
10	Nomkholokotho B Nomkholokotho A Nomkholokotho Sfolweni C Siqhingeni A	Mpoza F Siqhingeni Mauontsini Mntsla B Mntsla A	Ntsimanuwani B Ntsimanuwani A Colana B Lower Mvenyane Nciniba	Ncqumane Epiphany B Madlangeni A Mdakeni
11	Bhadalala Magontsini A Voveni Ndakeni J	Madideela Ndakeni L Ngogudlntaba Maqabanihi	Ngwekazana A Ngwekazana B Mkhangisa Ndokendibone	Mafusini H Qanqu A Mhlotsheni
12	Macheleni Siqhingeni B Mpoza K	Lutateni Muvnuvnblovo Emanqilweni B	Ntibane B Ntebeni Tyeni F	Tseni Mawusheni B Xhameni
13	Sinyaqqa Sihlahleni A Sihlahleni B Mpola B	Ngrozana Eluqolweni A Bethani B Mpungutyana	Mpamba Emanqilweni A Esibikibini	Lwandlana E Duze Ntlabeni B
14	Nqalweni Sdumela Ngojoni A Qoxe	Mgqwtsheni Khankomo C Lubomvini A	Niyonai Niyana A Niyona B	Esikolweni C Bhukazi A Mndini
15	Buffalo Neck Bhuwa A Mhlokwana	Gubusi Long Ehagwini	Centuli E Thwa Emalongwe	Ntenetyana Mpola
16	Galali B	Papanana		
17	Mpendla Chani Giqeka	Ncunteni Mbodleni Makaula	Lubacweni Cwalinkungu Nyanzele	Bobana Sipilini Nqantosi

TABLE NO. 1: WARD ALLOCATION				
WARD NUMBER	SETTLEMENT			
18	No rural settlements			
19	Hlane Qumrha Ngonyameni D	Mnambithi Magxeni A Dungu B	Emoyeni D Mtshazi	Mvuzi Lubacweni
20	Kusasa Mtombokazi Mguga Cabane Majuba AA Magcakini D	Qokolweni B Majuba B Mpemba Emva Kwesikolo Dangwana C	Dangwana A Essec Esseck Farm Lwandlana Tina Hill	Gingweni Dangwana B Black Hill A Lwandlana B Mahusheni A
21	Zibokwana Toleni B Bumbeni	Mhlanganisweni A Bislane Bhuwa C	Bhuwa B Xolo	Nushwini Mpindweni C
22	Mbizeni C Mabhobho Xhokonka	Mjikelweni B Ngqwarha Kwasodladla	Magqogqeni Ntlangomo	Ngqabawana Mmangweni F
23	Mkhwezeni Ntsilekane C Xholoti Ludondolo Ndesi B Gxaku C	Gxaku A Gxaku B Roba Ntabetsolo B Ntabetsolo A Kwa Mablazeko	Mlenze Mandleni B Mbizeni B Singgezu Qwidlana Pitshini	Mdeni F Dayimani E Nkungwini B Ntsimbini G Hofisi
24	Ncome Springs Tshisane Upper Mnyamana Lower Mnyamana	Luyengweni Ncome Roma Sivumela	Zigadini C Qaqeni B Mvumelwano B	Mpofini Embizweni Magontsini B
25	Mangqamseni Gqaqhana Ngojini C Ngojini B	Masomntwana Mafusini F Mangqamzeni A Macholweni	Magqagqeni D Magqagqeni A Mtonyeni E	Magqagqeni F Mtonyeni D Ekugqibeleni
26	Cabazana	Putukezi	Fusi	Mvalweni
27	Mafusini N Ekutsheni	Cabazi A	Cabazi B	Mbodleni

It should be noted that Ward 18 has been excluded, as such area falls within the Urban Edge as defined in terms of the Umzimvubu Local Municipality Spatial Development Framework (SDF) and is therefore not classified as being rural in nature.



## SECTION C: GUIDING PRINCIPLES

### C1. ENVIRONMENTAL GUIDING PRINCIPLES

Umzimvubu Local Municipality is situated in a subtropical climatic zone, which means that the area is characterized by warm summers and cool winters. The average temperature ranges from 7°C to 10°C in the winter and 18°C to 25°C in the summer.

Umzimvubu has a well-developed river system. Perennial streams in the area join to form the primary tributaries of the upper Umzimvubu catchment area. Major rivers in Umzimvubu Local Municipality are:

- ▶ *Umzimvubu river*
- ▶ *Umzintlava river*
- ▶ *Mkemane river*
- ▶ *Mvenyane river*
- ▶ *Kinira river*

Mudstone and sand stone of the Beaufort Group of the Karoo Sequence predominate Umzimvubu Local Municipality, but sedimentary rocks of the Molteno, Elliot and Clarens Formations are also present. The dominant soils on the sedimentary parent material are well drained, with a depth of 500-800 mm and clay content from 15-55%. The soils are Hutton, Clovey, Oatsdale forms on sediments and hortlands on dolerite.

The area consists of a mix of three biomes (grassland, thicket and forest) and the following main types of vegetation are evident:

- ▶ *East Griqualand Grassland*
- ▶ *Drakensberg Foothill Moist Grassland*
- ▶ *Eastern Valley Bushveld*
- ▶ *Southern Mistbelt Forest*

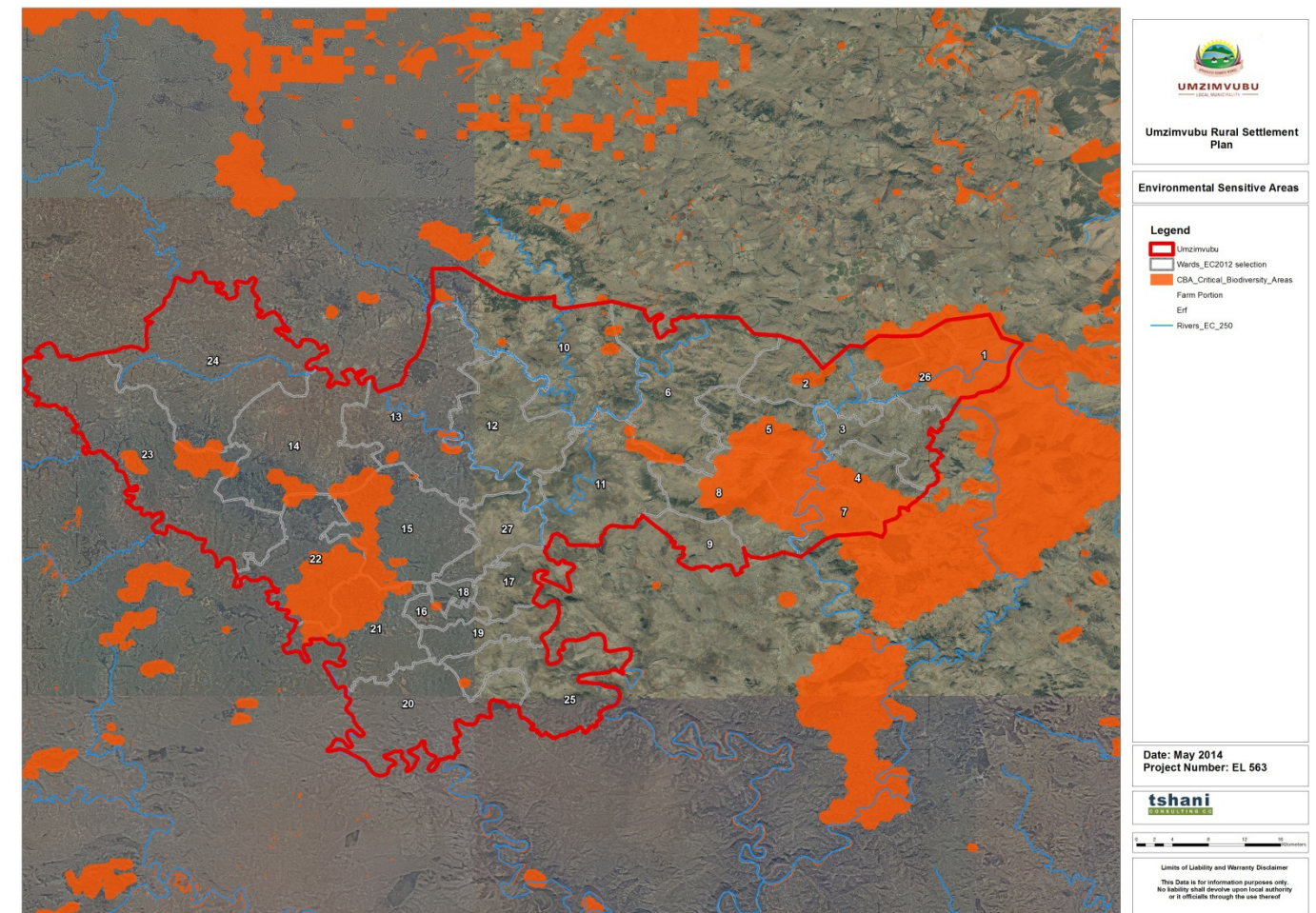
Umzimvubu Local Municipality has high levels of rain, with a Mean Annual Precipitation of 780mm, ranging from 620mm in the dryer areas and 816mm in the wetter areas.

#### C1.1 Eastern Cape Biodiversity Conservation Plan (ECBCP)

Due to development pressures and the associated loss of natural areas, it has become increasingly important to preserve the remaining environment. Environmentally Sensitive Areas must be safeguarded in their natural or near-natural state, as they are critical for conserving biodiversity and maintaining the ecosystem.

The Eastern Cape Biodiversity Conservation Plan, indicates a large number of Category 1 Areas (critical environmental areas) are evident in the district. Any habitat loss inevitably leads to losses in biodiversity. The most affected are those rare species with limited ranges and much specialised habitat requirements.

As indicated on the plan below, critical biodiversity areas are evident in the easterly portion of Umzimvubu Local Municipality.



PLAN NO. 5: CRITICAL BIODIVERSITY AREAS

The ECBCP land use guidelines are based on the following ten (10) principles:

1. Avoid land use that results in vegetation loss in critical biodiversity areas.
2. Maintain large intact natural patches – try to minimize habitat fragmentation in critical biodiversity areas.
3. Maintain landscape connections (ecological corridors) that connect critical biodiversity areas.
4. Maintain ecological processes at all scales, and avoid or compensate for any effects of land uses on ecological processes.
5. Plan for long-term change and unexpected events, in particular those predicted for global climate change.
6. Plan for cumulative impacts and knock-on effects.
7. Minimize the introduction and spread of non-native species.



8. Minimize land use types that reduce ecological resilience (ability to adapt to change), particularly at the level of water catchments.
9. Implement land use and land management practices that are compatible with the natural potential of the area.
10. Balance opportunity for human and economic development with the requirements for biodiversity persistence.

To facilitate the use of the ECBCP information, a land management objectives-based approach has been adopted. This approach rests on the concept of Biodiversity Land Management Classes (BLMCs). Each BLMC sets out the desired ecological state that an area should be kept in to ensure biodiversity persistence.

A decision to approve a land use change should be guided by the objective of the BLMC for that land. In the same way, forward planning in an area should also be guided by the objectives of the BLMCs for that area.

The table below sets out the Terrestrial BLMCs and the recommended land use objective for each class. To further guide land use decision-making, the ECBCP recommends permissible land use types for each terrestrial BLMC, based on the impact of these land uses on biodiversity. It should be noted that this list does not include every possible form of land use. These guidelines are not able to provide this level of detail, but instead provide a broad framework to assess proposals for land use change. It also calls attention to land use changes that require environmental authorization (e.g. and EIA). These are listed as “conditional”.

TABLE NO. 2: TERRESTRIAL BLMCS AND LAND USE OBJECTIVES AND RECOMMENDED PERMISSIBLE LAND USES					
BIODIVERSITY LAND MANAGEMENT CLASS					
	Recommended land use objectives	BLMC1 MAINTAIN BIODIVERSITY IN AS NATURAL STATE AS POSSIBLE. MANAGE FOR NO BIODIVERSITY LOSS.	BLMC2 MAINTAIN BIODIVERSITY IN NEAR NATURAL STATE WITH MINIMAL LOSS OF ECOSYSTEM INTEGRITY. NO TRANSFORMATION OF NATURAL HABITAT SHOULD BE PERMITTED.	BLMC3 MANAGE FOR SUSTAINABLE DEVELOPMENT, KEEPING NATURAL HABITAT INTACT IN WETLANDS (INCLUDING WETLAND BUFFERS) AND RIPARIAN ZONES. ENVIRONMENTAL AUTHORIZATIONS SHOULD SUPPORT	BLMC4 MANAGE FOR SUSTAINABLE DEVELOPMENT
Land use	Conservation	Yes	Yes	Yes	Yes
	Game farming	No	Yes	Yes	Yes
	Communal livestock	No	Yes	Yes	Yes
	Commercial livestock ranching	No	No	Yes	Yes
	Dry land cropping	No	No	Conditional	Yes
	Irrigated cropping	No	No	Conditional	Yes
	Dairy farming	No	No	Conditional	Yes
	Timber	No	No	Conditional	Yes
	Settlement	No	No	Conditional	Yes

Source: ECBCP, 2007

## C2. AGRICULTURE PRINCIPLES

As an outcome of the Situation Analysis Phase of this project, it was revealed that agricultural activities taking place within Umzimvubu Local Municipality are in the form of livestock farming and crop farming, at a subsistence level.

Agriculture forms one of the Local Economic Development focus areas, as agriculture proves to have great potential in this area. The Umzimvubu Local Municipality has agricultural potential in both crop and livestock farming; this is due to the suitable climatic conditions and the available of water supply.

The soils have high potential for growing various crops and the unique climatic conditions are suitable for various crops at different seasons. Umzimvubu has high water availability levels afforded by the rivers that run through the area. Land is also available in abundance for both commercial and subsistence farming.

Agricultural potential is hindered by a number of factors that have prevailed for many years. There is overemphasis on subsistence farming over commercial farming. This has a negative impact on the general economy of the area. As a result of low skills in the area, farmers are unable to market agricultural projects and there is a lack of knowledge in crop and livestock care, which has lead to poor land management.

There are large pieces of vacant arable land within the municipal area. The major agricultural zones are adjacent to the Umzimvubu and Kinira Rivers. These pieces of land need to be explored and utilized to the fullest. The employed population in the agriculture sector is very low, but has potential for growth should more investment occur by the municipality.

The municipal area has scattered potential for wildlife and this opportunity for game farming could boost the tourism sector with consequential employment opportunities.

Forests are evident in the western region of Umzimvubu Local Municipality, adjacent to the R405 and in a small area in the eastern region adjacent to the N2. Forestry is available in the form of indigenous forests and commercial plantations. Indigenous forests consist mainly of the mist belt forest known for its fine yellowwood specimens. Indigenous forests are however not as well protected as they should be.

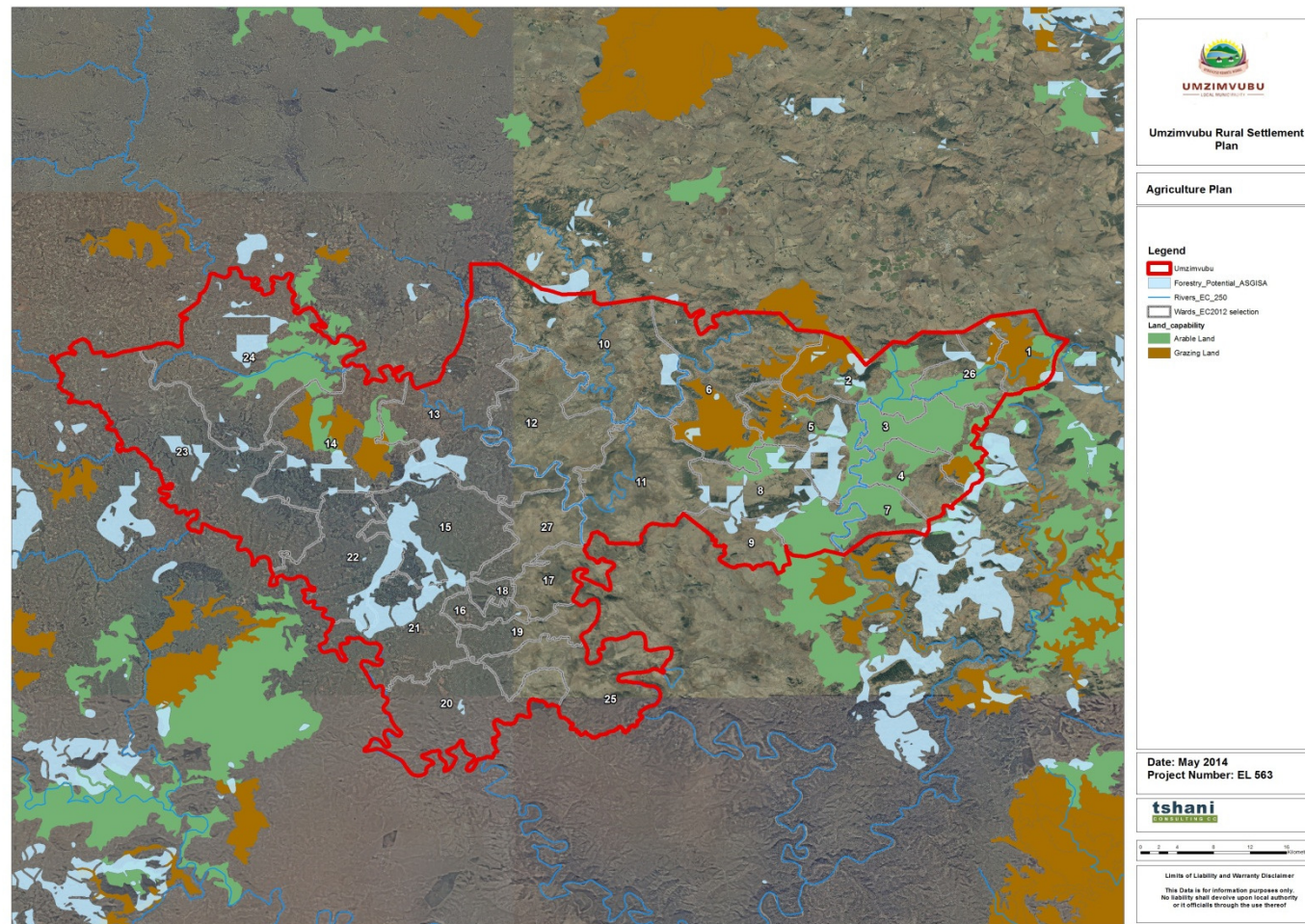
Commercial plantation forests occur along the R405 route (Manzamyana forest), in the western region of Umzimvubu Local Municipality. The plantations provide wood for a variety of reasons, such as timber for poles. Plantations consist predominantly of pine species. These plantations are not natural features of the environment and are therefore not under any threat. They do however pose a threat to other elements, such as the water table, by utilizing vast amount of groundwater. Some of the plantations occur adjacent to or are buffer zones for indigenous forests and tree felling operations need to be carefully monitored to prevent destruction of indigenous forests.

Agriculture and the forestry sector has potential for growth and could be a key development pillar in achieving economic growth and development for the area.

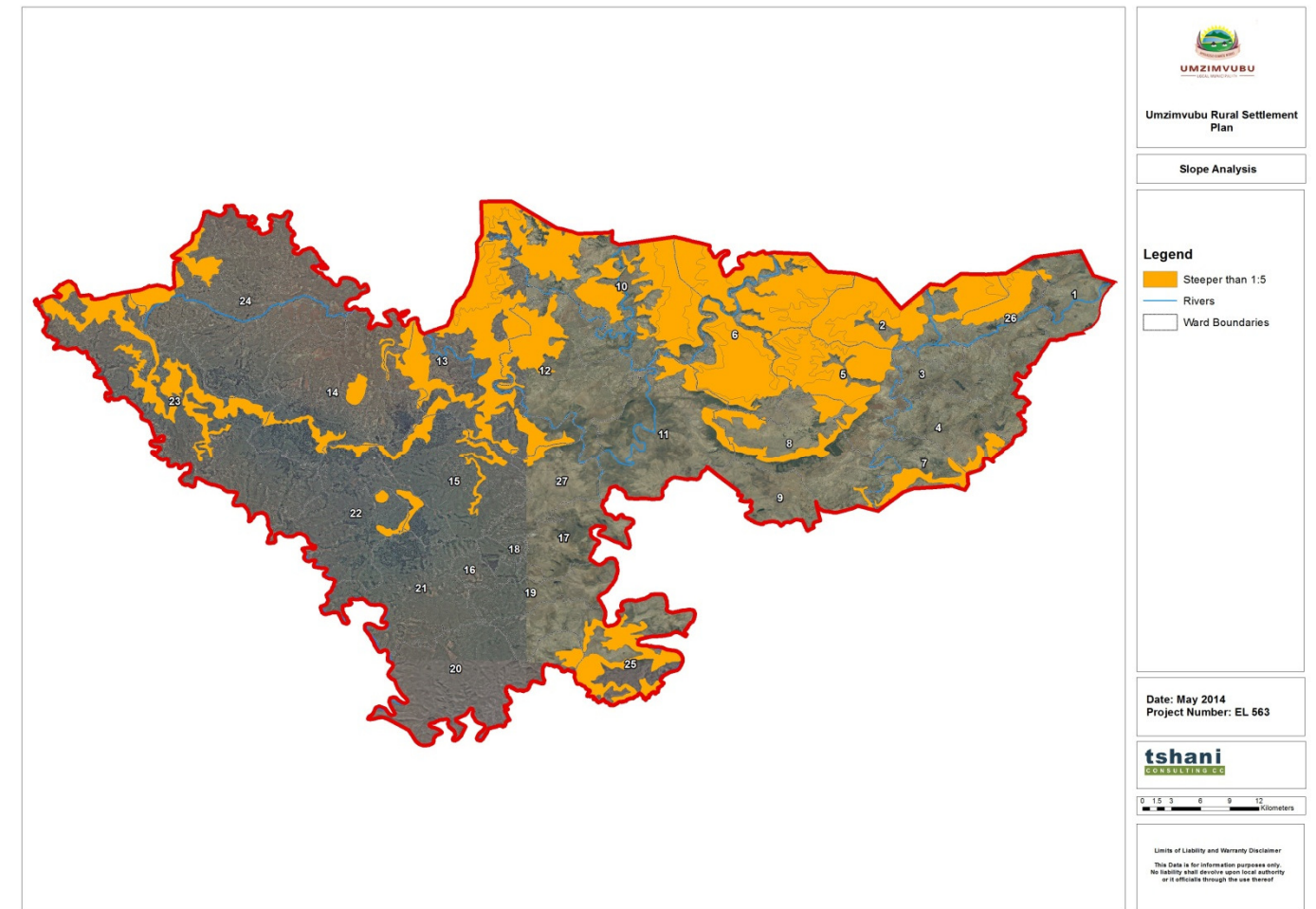
While addressing the demand for human settlement; maintaining agricultural land for food production and sustenance, as well as for viable economic activities today and for future generations, is imperative.

The plan below indicates the arable and grazing land, as well as forestry potential areas within Umzimvubu Local Municipality.





PLAN NO. 6: ARABLE LAND, GRAZING LAND AND FORESTRY POTENTIAL AREAS



PLAN NO. 7: SLOPE ANALYSIS

### C3. LAND DEVELOPMENT PRINCIPLES

The topography of Umzimvubu Local Municipality is characterized by two main geomorphological formations i.e. River Valleys and Mountainous formations. The Umzimvubu River Basin, which comprises a number major rivers that include the Umzimvubu River, Mzintlava River, Tina River, the Kinira River drains the municipal area.

The river basins range from approximately 600m –1400m above sea level, while the plateau, steep slopes and ridges in the western region leading towards the Drakensberg Mountains rise up to above 1800 – 2000m above sea level.

The subject of steep slopes is important for two main reasons: the potential for excessive erosion and the physical limitation of development. Steep slopes present concerns for development, and careful planning is essential to avoid adverse impacts to the surrounding environment. Disturbance of existing vegetation on steep slopes often leads to excessive erosion. This is because the vegetation holds the soils in place and intact, mitigating the erosive forces of precipitation and wind. When vegetation is removed, the soils on steep slopes become less stable and prone to erosion. Vegetation on slopes increases not only soil stability, but also wildlife and plant habitat.

Slopes that are too steep for development (i.e. steeper than 1:5) are indicated on the plan below.

#### C4. SOCIAL FACILITIES GUIDING PRINCIPLES

As previously determined in the Situational Analysis, the following table depicts the existing social facilities within each Ward.

As previously mentioned, Ward 18 has been excluded from the analysis, as it falls within the Urban Edge of Mount Frere and is not rural in nature.

TABLE NO. 3: SOCIO-ECONOMIC ANALYSIS								
WARD	PRIMARY SCHOOL	SECONDARY SCHOOL	COMBINED SCHOOL	CRECHE	COMMUNITY HALL	CHURCH	CLINIC	POST OFFICE
1		✓	✓					
2	✓	✓	✓		2	6		
3		✓	✓		2	10		
4			✓		1	4		
5	✓		✓			4		
6	✓		✓	✓	2	16	✓	
7	✓	✓	✓			2		✓
8	✓	✓	✓		1	9	✓	
9	✓	✓	✓		1	5		
10	✓	✓	✓			3		
11	✓	✓	✓	✓		9	✓	
12		✓	✓		2	3	✓	
13	✓	✓	✓				✓	
14	✓	✓	✓	✓				✓
15	✓	✓	✓	✓			✓	
16	✓			✓		8		
17	✓		✓	✓		3		
19	✓		✓	✓	1	7		
20	✓	✓	✓	✓	1	5	✓	✓
21	✓		✓	✓		2		
22	✓		✓	✓	1	8		
23	✓	✓	✓			1	✓	✓
24	✓	✓	✓	✓	2	2		

25	✓		✓	✓		3		
26	✓		✓			6		
27		✓	✓			8		

#### CSIR Guidelines on Provision of Social Facilities

The Council of Scientific and Industrial Research (CSIR), 2011, developed guidelines in terms of demand thresholds i.e number of people served.

These guidelines were established to assist planners in developing well-provisioned and planned human settlements.

In terms of such guidelines, the provision of the respective social facilities within Umzimvubu Local Municipality is evaluated below:

##### C4.1. Schools

In terms of the SCIR Guidelines for Human Settlement Planning and Design, primary schools are to serve an estimated minimum population of between 3 000 and 4 000; and high schools are to serve an estimated minimum population of 6 000 and 10 000.

As combined schools include both primary and secondary schools, it is concluded that the provision of educational facilities within all the wards is sufficiently catered for. Creches are however needed in the following wards:

TABLE NO. 4: CRECHES NEEDED							
Ward 1	Ward 2	Ward 4	Ward 5	Ward 7	Ward 8	Ward 9	Ward 10
Ward 12	Ward 13	Ward 23	Ward 26	Ward 27			

##### C4.2. Community Halls

In terms of the SCIR Guidelines for Human Settlement Planning and Design, community halls are to serve minimum population of 10 000 people.

The provision of community halls is therefore required in the following wards:

TABLE NO. 5: COMMUNITY HALLS NEEDED							
Ward 1	Ward 4	Ward 5	Ward 7	Ward 10	Ward 11	Ward 13	Ward 14
Ward 15	Ward 16	Ward 17	Ward 21	Ward 23	Ward 25	Ward 26	Ward 27



### C4.3. Churches

In terms of the SCIR Guidelines for Human Settlement Planning and Design, it is estimated that approximately 2 000 persons are required to support a single church.

In terms of the analysis undertaken, the provision of churches is required in the following wards:

TABLE NO. 6: CHURCHES NEEDED							
Ward 1	Ward 7	Ward 10	Ward 12	Ward 13	Ward 14	Ward 15	Ward 17
Ward 21	Ward 23	Ward 24					

### C4.4. Clinics

In terms of the SCIR Guidelines for Human Settlement Planning and Design, clinics are to serve an estimated minimum of 5 000 persons.

Clinics are therefore required to be provided in the following wards:

TABLE NO. 7: CLINICS NEEDED							
Ward 1	Ward 2	Ward 3	Ward 4	Ward 5	Ward 7	Ward 9	Ward 10
Ward 14	Ward 16	Ward 17	Ward 19	Ward 21	Ward 22	Ward 24	Ward 25

Clinics have been provided in certain of the wards, however an additional clinic is required to be provided in each of the followings wards:

- ▶ Ward 6 (only one clinic currently provided)
- ▶ Ward 8 (only one clinic currently provided)
- ▶ Ward 13 (only one currently provided)
- ▶ Ward 15 (only one currently provided)
- ▶ Ward 20 (only one currently provided)
- ▶ Ward 23 (only one currently provided)

### C4.5. Post Offices

In terms of the SCIR Guidelines for Human Settlement Planning and Design, a post office is to serve an estimated minimum population of 11 000.

Post Offices are therefore needed in the following wards:

TABLE NO. 8: POST OFFICES NEEDED							
Ward 1	Ward 2	Ward 3	Ward 4	Ward 5	Ward 6	Ward 8	Ward 9

Ward 10	Ward 11	Ward 12	Ward 13	Ward 15	Ward 16	Ward 17	Ward 19
Ward 21	Ward 22	Ward 24	Ward 25	Ward 26	Ward 27		

## SECTION D: RURAL SERVICE CENTRES

The identification of Rural Development Nodes was undertaken as per the guidance provided by the Eastern Cape Provincial Spatial Development Plan (ECPSPD), 2010.

Nodes are described as areas of mixed land use development, having a relatively high intensity of activities involving retail, traffic, industry and residential land uses. These are places where most interaction takes place between people and organisations, enabling most efficient transactions and exchange of goods and services. Nodes are generally located at nodal interchanges to provide maximum access and usually act as catalysts for new growth and development.

The following table represents the existing nodes identified in terms of the Umzimvubu Local Municipality Spatial Development Framework:

TABLE NO. 9: EXISTING NODES	
NODE TYPE	AREA
Existing District Centres	▶ Mount Ayliff
Existing Sub-District Centres	▶ Mount Frere
Existing Sub-Local Centres	▶ Pakade ▶ Cancele
Existing Primary Rural Service Centres	▶ Phuti ▶ Sphambukeni

The following table represents the proposed Rural Service Centres within Umzimvubu Local Municipality:

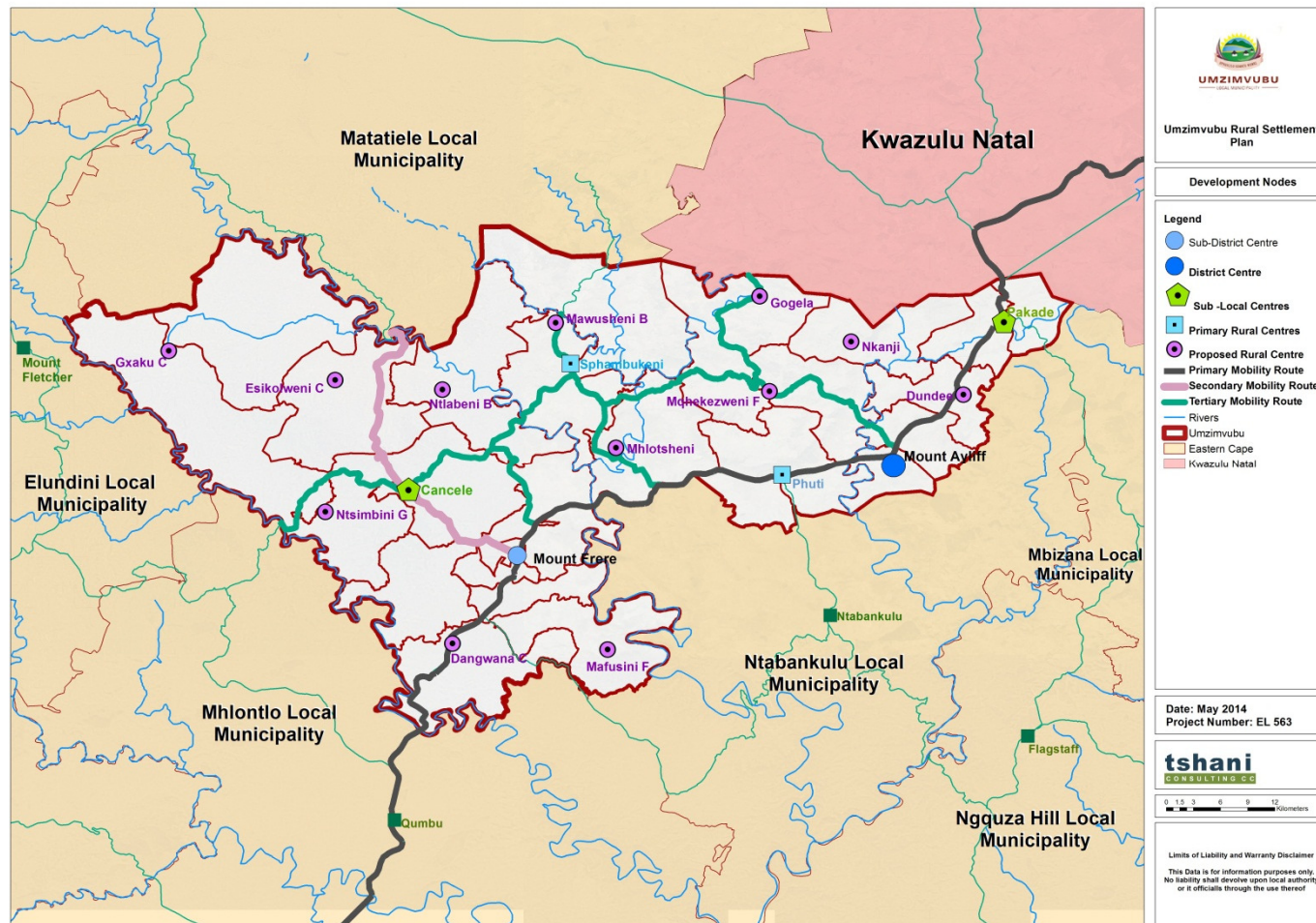
TABLE NO. 10: PROPOSED RURAL SERVICE CENTRES	
NODE TYPE	AREA
Proposed Rural Service Centres	▶ Mqhekezweni F ▶ Gogela ▶ Mawusheni B ▶ Dangwana C ▶ Esikolweni C



TABLE NO. 10: PROPOSED RURAL SERVICE CENTRES

NODE TYPE	AREA
	<ul style="list-style-type: none"> <li>► Ntsimbini G</li> <li>► Gxaku C</li> <li>► Ntlabeni B</li> <li>► Nkanji</li> <li>► Dundee</li> <li>► Mhlotsheni</li> <li>► Mafusini F</li> </ul>

The existing and proposed nodes are illustrated on the plan below.



PLAN NO. 8: DEVELOPMENT NODES

## SECTION E: SETTLEMENT PLANNING

Settlement Planning for Wards 1 to 27 was undertaken utilizing the latest available statistics published by STATS SA.

### E1. POPULATION

According to statistics made available by STATS SA, South Africa has a positive growth rate from 2001 to 2011 of 15.5%, which has lead to a population increase from 44.3 Million to 49.9 Million. The Eastern Cape accommodates an estimated 6 562 053 persons, in a total land area of 169 056km<sup>2</sup>. At an estimated 3.9 persons per household, there are approximately 1.6 Million households within the Eastern Cape.

Statistics reveal that the Eastern Cape Province has, from 1996 to 2011, had a steady population growth rate of 0.44% per annum, which equates to approximately 28 000 persons per annum.

Statistics for the Alfred Nzo District reveal that there has been an increase in population of 0.4% over the last ten (10) years; and an increase in households of 0.28% per annum during the same period.

In terms STATS SA, the Umzimvubu Local Municipality population is on the decline. This could however be attributed to outward migration to larger urban centres.

The table below indicates the population within South Africa, the Eastern Cape Province, Alfred Nzo District and the Umzimvubu Local Municipal area.

TABLE NO. 11: POPULATION STATISTICS					
	Extent	1996	2001	2011	Growth % Per Annum (2001-2011)
South Africa	1 221 000km <sup>2</sup>	40.7 Million	44.3 Million	49.9 Million	1.20%
Eastern Cape	169 056km <sup>2</sup>	6 147 244	6 278 651	6 562 053	0.44%
Alfred Nzo District	10 731 km <sup>2</sup>	749 585	773 708	801 344	0.4%
Umzimvubu Local Municipality	2 506km <sup>2</sup>	193 448	202 369	191 620	-0.5%

For the purpose of this study, the 'population growth rate for the Alfred Nzo District of 0.4% per annum' has been utilized to indicate the probable increase in Umzimvubu Local Municipality.

## E2. NUMBER OF HOUSEHOLDS (DWELLINGS)

In terms of STATS SA, South Africa has seen a notable increase of 3 244 456 households from the year 2001 to 2011; this is indicative of an increase of 2.54% per annum.

The Eastern Cape is indicative of a 1.3% increase per annum over a 10-year period, which equates to 205 745 households. Households within the Alfred Nzo District have increased by 19 940 between the years 1996 and 2011.

Although Umzimvubu Local Municipality has experienced a decline in population, statistics reveal that the number of households have, over a 15-year period, increased by 6 174.

The table below indicates the number of existing households within South Africa, the Eastern Cape Province, Alfred Nzo District and the Umzimvubu Local Municipal area.

TABLE NO. 12: HOUSEHOLD STATISTICS				
	1996	2001	2011	Average Growth % Per Annum (2001-2011)
South Africa	9 254 281	11 205 706	14 450 162	2.54%
Eastern Cape	1 343 873	1 481 640	1 687 385	1.3%
Alfred Nzo District	149 321	164 667	169 261	0.28%
Umzimvubu Local Municipality	40 717	46 460	46 891	0.09%

The statistics have also indicated that, within the Umzimvubu Local Municipal area, there is an average of 3.8 persons per household. The projected households, per settlement, have therefore been calculated according to the projected number of persons and the estimated average of persons per household; which ultimately reveals the number of households/sites to be provided for.

## E3. EXTENT OF INDIVIDUAL SITES

In terms of the Umzimvubu Municipality Spatial Development Framework (SDF) 2011, preferred Land Use Management Guidelines have been formulated for rural areas that are residential in character. It stipulates that all new residential sites are to have a site size in the range of 1 500m<sup>2</sup> to 2 500m<sup>2</sup>, to allow for subsistence farming.

An analysis was however undertaken, using the latest ariel photography maps, to determine the average site size of the properties within the settlements and it was determined that majority of the settlements have an average site size of under 500m<sup>2</sup> in extent. A site of 500m<sup>2</sup> is therefore considered adequate to cater for multiple structures, as well as an area for growing crops and an enclosed area for livestock. Those settlements which do have an average site area of more than 500m<sup>2</sup>, have been allocated sites of 1 000m<sup>2</sup> in extent.

## E4. PROJECTED GROWTH ESTIMATES

The table below gives an overview of the existing population and number of households within each Ward, as well as the projected growth estimates over a 20 year period, utilizing the Alfred Nzo District Municipality growth percentages of 0.4% per annum for population and 0.28% per annum for households.

TABLE NO. 13: PROJECTED GROWTH ESTIMATES								
WARD	POPULATION				HOUSEHOLDS			
	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044
1	7 966	0.4%	629	8 595	1448	0.28%	82	1530
2	5847	0.4%	461	6308	1244	0.28%	66	1310
3	8 592	0.4%	676	9 268	1790	0.28%	96	1886
4	6909	0.4%	545	7454	1570	0.28%	86	1656
5	6087	0.4%	481	6568	1323	0.28%	76	1399
6	5806	0.4%	457	6263	1289	0.28%	70	1359
7	1058	0.4%	84	1142	341	0.28%	19	360
8	6158	0.4%	485	6643	1432	0.28%	78	1510
9	13 357	0.4%	1052	14 409	1363	0.28%	78	1441
10	7221	0.4%	647	8910	2232	0.28%	120	2352
11	8104	0.4%	640	8744	2026	0.28%	108	2137
12	5936	0.4%	467	6403	1562	0.28%	85	1647

TABLE NO. 13: PROJECTED GROWTH ESTIMATES

WARD	POPULATION				HOUSEHOLDS			
	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044
13	6592	0.4%	558	7634	1781	0.28%	96	1877
14	7213	0.4%	568	7781	1949	0.28%	108	1957
15	5298	0.4%	417	5715	1472	0.28%	82	1556
16	1220	0.4%	444	6093	1765	0.28%	61	1826
17	4364	0.4%	344	4708	1015	0.28%	58	1073
18	6664	0.4%	525	7189	1993	0.28%	109	2102
19	6293	0.4%	856	11 725	2651	0.28%	145	2796
20	6071	0.4%	618	8 471	2066	0.28%	121	2187
21	5594	0.4%	441	6035	1554	0.28%	85	1639
22	7 270	0.4%	572	6 241	1773	0.28%	96	1869
23	8235	0.4%	650	8885	2167	0.28%	118	2285
24	7800	0.4%	616	8 416	2108	0.28%	114	2222
25	7309	0.4%	575	7884	1433	0.28%	81	1514
26	1166	0.4%	507	6 943	1341	0.28%	73	1414
27	5 105	0.4%	402	5 507	1245	0.28%	69	1314

TABLE NO. 13: PROJECTED GROWTH ESTIMATES

WARD	POPULATION				HOUSEHOLDS			
	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044
	162 571		14192	192 745	41940		2271	44116

## E5. SETTLEMENT GROWTH

The projected population growth rate of 0.4% per annum for Alfred Nzo District Municipality, in terms of SA STATS 2011, indicates a minimal population growth over the next 20 years; and the consequences thereof, under the present circumstances, is a *low demand* for housing.

Given the marginal households projected in the Land Demand Analysis, it is evident that the additional land required to cater for these households, can, in instances, be accommodated for within the existing settlement boundaries. In the instances where future probable growth cannot be accommodate within the existing settlement boundaries, the boundaries have been re-aligned to include potential areas of expansion.

Potential and existing grazing and arable land, as well as environmentally sensitive areas have been taken into account, so as not to infringe upon these areas, when considering the allocation of new areas for expansion.

Uncontrolled expansion has, over the years, taken place outside the demarcated settlement boundaries. These sites have been taken into account and been incorporated within the nearest settlement; and the settlement boundaries have therefore been adjusted accordingly.

The following tables provides an indication of how many sites need to be provided for in each Ward to accommodate a 20 year growth projection.

TABLE NO. 14: SETTLEMENT GOWTH ESTIMATES

WARD	HOUSEHOLDS				SITES
	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	NUMBER OF SITES TO BE PROVIDED TO ACCOMMODATE 20 YEAR GROWTH
1	1448	0.28%	82	1530	82 sites

TABLE NO. 14: SETTLEMENT GOWTH ESTIMATES					
	HOUSEHOLDS				SITES
WARD	EXISTIING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	NUMBER OF SITES TO BE PROVIDED TO ACCOMMODATE 20 YEAR GROWTH
2	1244	0.28%	66	1310	66 sites
3	1790	0.28%	96	1886	96 sites
4	1570	0.28%	86	1656	86 sites
5	1323	0.28%	76	1399	76 sites
6	1289	0.28%	70	1359	70 sites
7	341	0.28%	19	360	19 sites
8	1432	0.28%	78	1510	78 sites
9	1363	0.28%	78	1441	78 sites
10	2232	0.28%	120	2352	120 sites
11	2026	0.28%	108	2134	108 sites
12	1562	0.28%	85	1647	85 sites
13	1781	0.28%	96	1877	96 sites
14	1949	0.28%	108	1957	108 sites
15	1472	0.28%	82	1556	82 sites
16	1765	0.28%	61	1826	61 sites
17	1015	0.28%	58	1073	58 sites
18	625	0.28%	34	649	34 sites
19	2651	0.28%	145	2796	145 sites
18	1993	0.28%	109	2102	109 sites
20	2066	0.28%	121	2187	121 sites
21	1554	0.28%	85	1639	85 sites
22	1773	0.28%	96	1869	96 sites
23	2167	0.28%	118	2285	118 sites
24	2108	0.28%	114	2222	114 sites
25	1433	0.28%	81	1514	81 sites

TABLE NO. 14: SETTLEMENT GOWTH ESTIMATES					
	HOUSEHOLDS				SITES
WARD	EXISTIING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	NUMBER OF SITES TO BE PROVIDED TO ACCOMMODATE 20 YEAR GROWTH
26	1341	0.28%	73	1414	73 sites
27	1245	0.28%	69	1314	69 sites
	41940		2271	44116	2271 sites



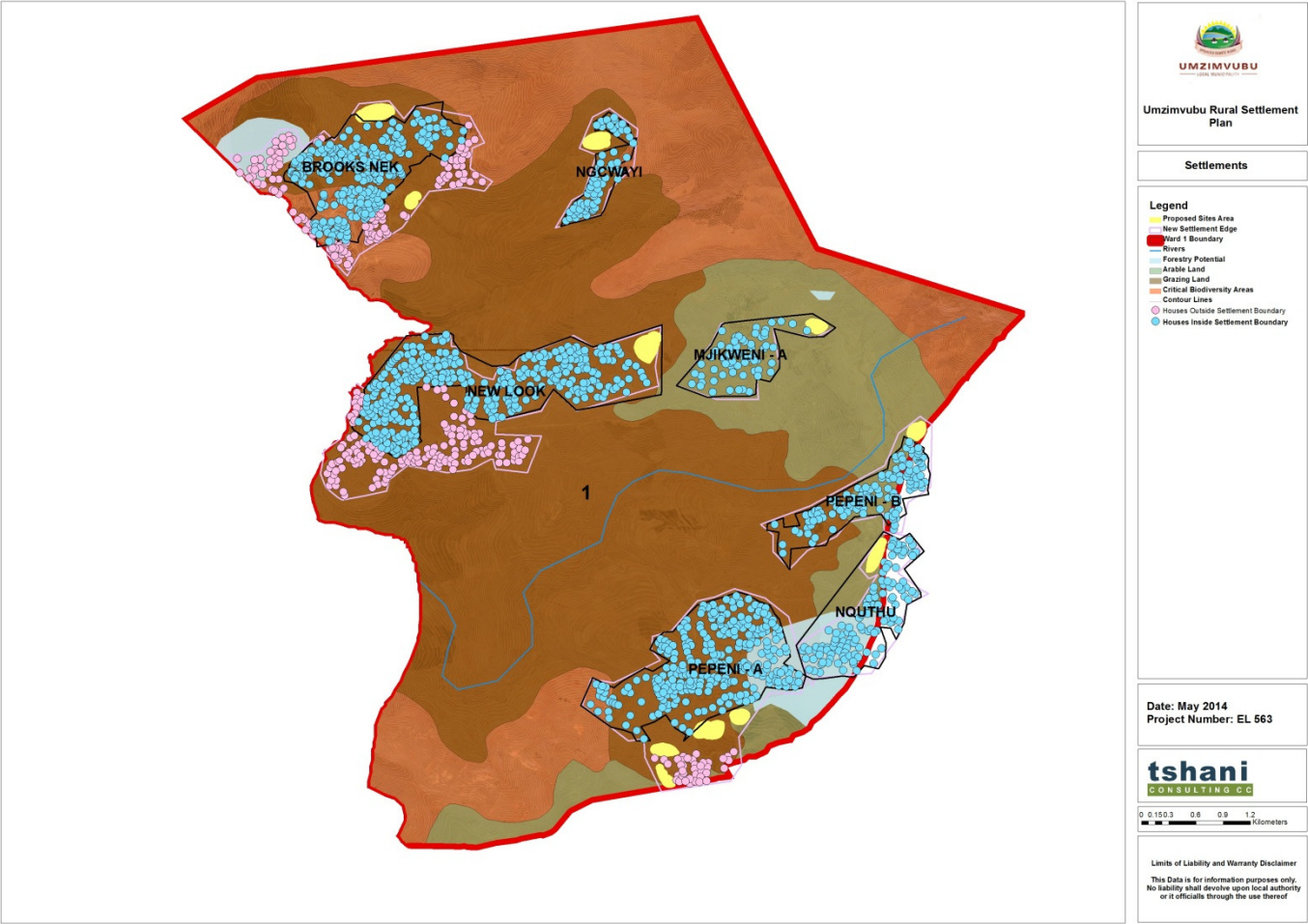
E5.1 Settlement Growth: Ward 1

As indicated in Table No. 14 above, there are currently 1 448 households located within Ward 1. At a household growth rate of 0.28% per annum, a total number of 82 households is projected over a 20 year period. This equates to approximately 4.1 Hectares in extent required to accommodate the projected households.

In some instances, these areas have been accommodated within the existing settlement boundaries. However, where the topography does not allow for development or where ‘Critical Biodiversity Areas’ exist, expansion areas have been allocated outside the settlement boundaries and the settlement boundaries have been realigned.

The plan below is indicative of the following:

- ▶ Households within settlement boundaries (blue)
- ▶ Households outside settlement boundaries (pink)
- ▶ New expansion areas to accommodate projected households (yellow)
- ▶ Arable land (green)
- ▶ Grazing land (brown)
- ▶ Critical Biodiversity Areas (orange)
- ▶ Existing settlement boundaries (black)
- ▶ New settlement boundaries (pink)



PLAN NO. 9: SETTLEMENT GROWTH: WARD 1

The table below indicates the existing population and projected population growth over a 20 year period, as well as the existing number of households, the projected growth over a 20 year period and the number of sites required to accommodated the projected growth rate.

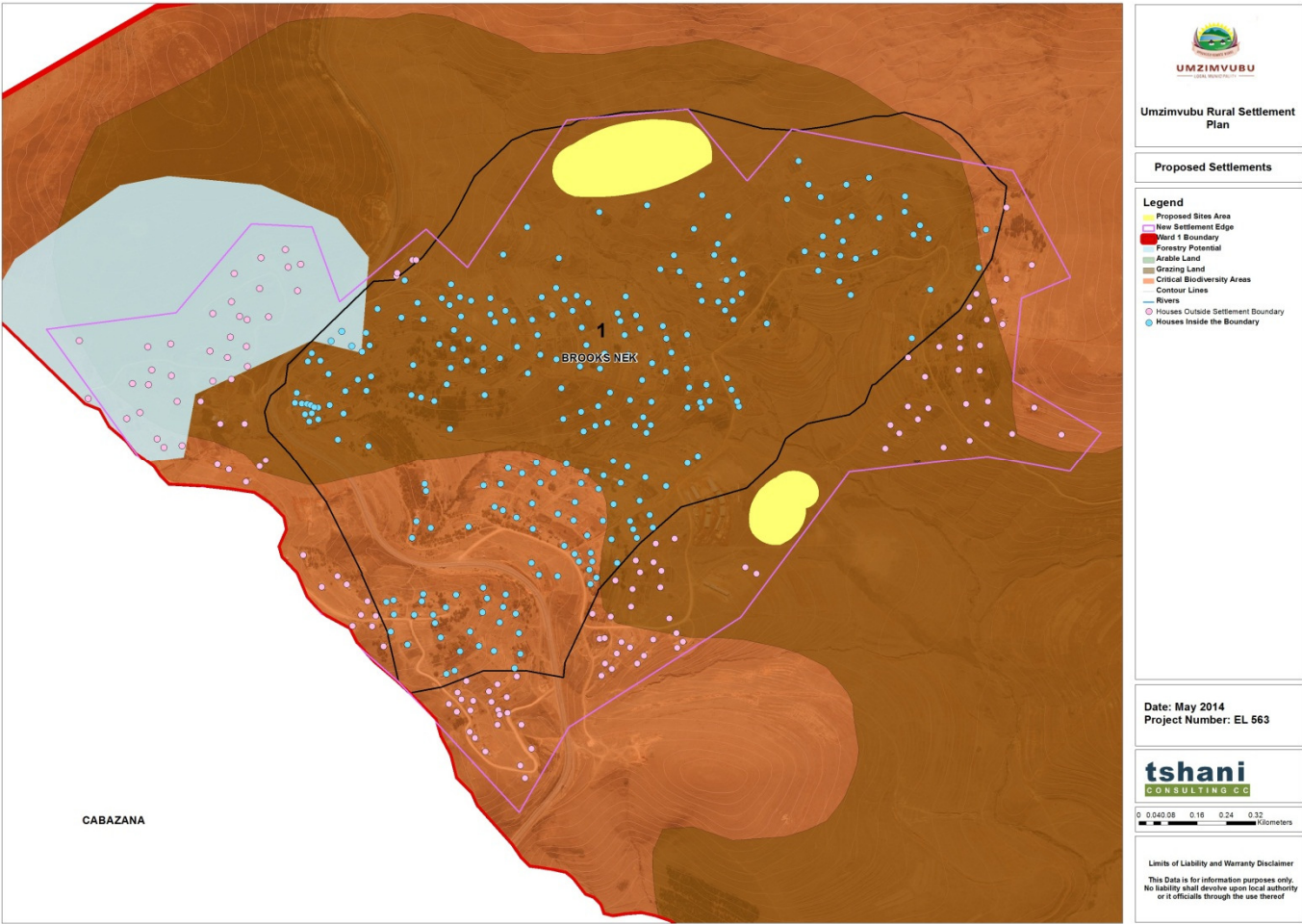
WARD	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
1	7 966	0.4%	629	8 595	1448	0.28%	82	1530	500m²	4.1 Ha (82 sites)

The analysis for each settlement within Ward 1 is represented hereunder.



E5.1.1 Brooks Nek

In terms of the projection figures calculated over a 20-year period, an *additional eleven (11) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.

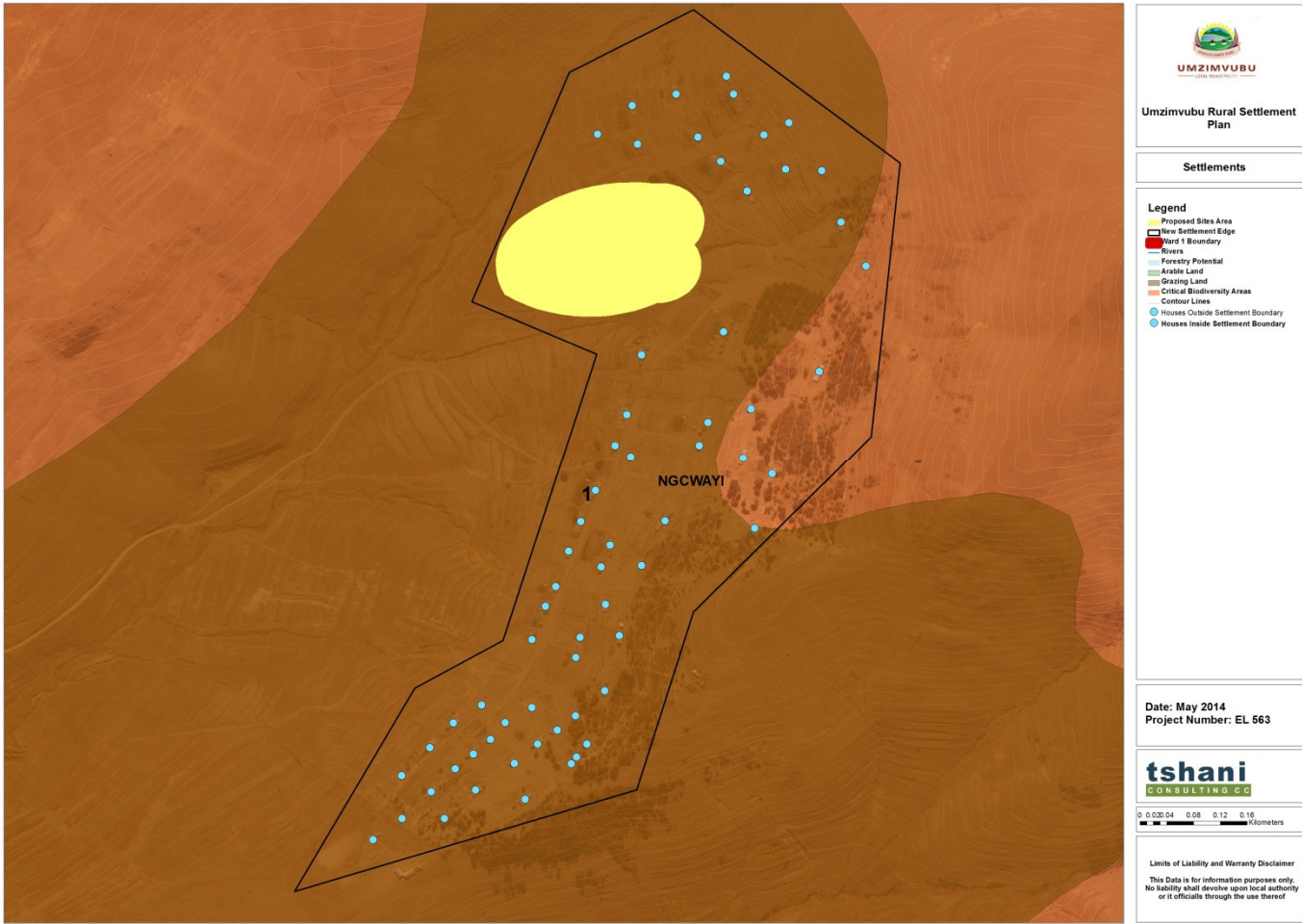


A total area of approximately *0.55 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Brooks Nek	1 073	0.4%	85	1 158	195	0.28%	11	206	500m <sup>2</sup>	0.55 Ha (11 sites)

E5.1.2 Ngcwayi

In terms of the projection figures calculated over a 20-year period, an *additional four (4) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



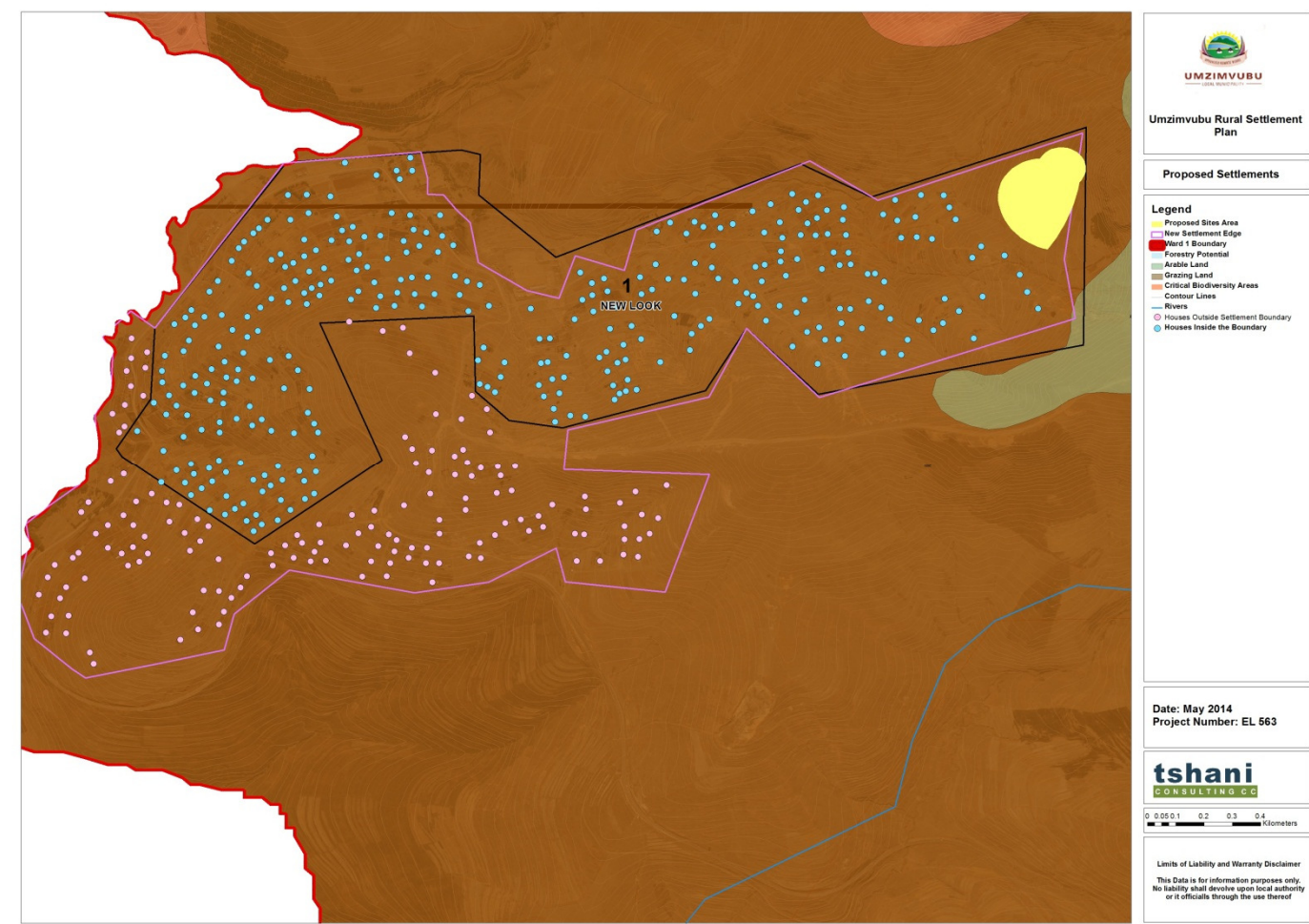
A total area of approximately *0.2 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Ngcwayi	369	0.4%	29	398	67	0.28%	4	71	500m <sup>2</sup>	0.2 Ha (4 sites)



E5.1.3 New Look

In terms of the projection figures calculated over a 20-year period, an *additional twenty-six (26) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the ‘uncontrolled expansion areas’.

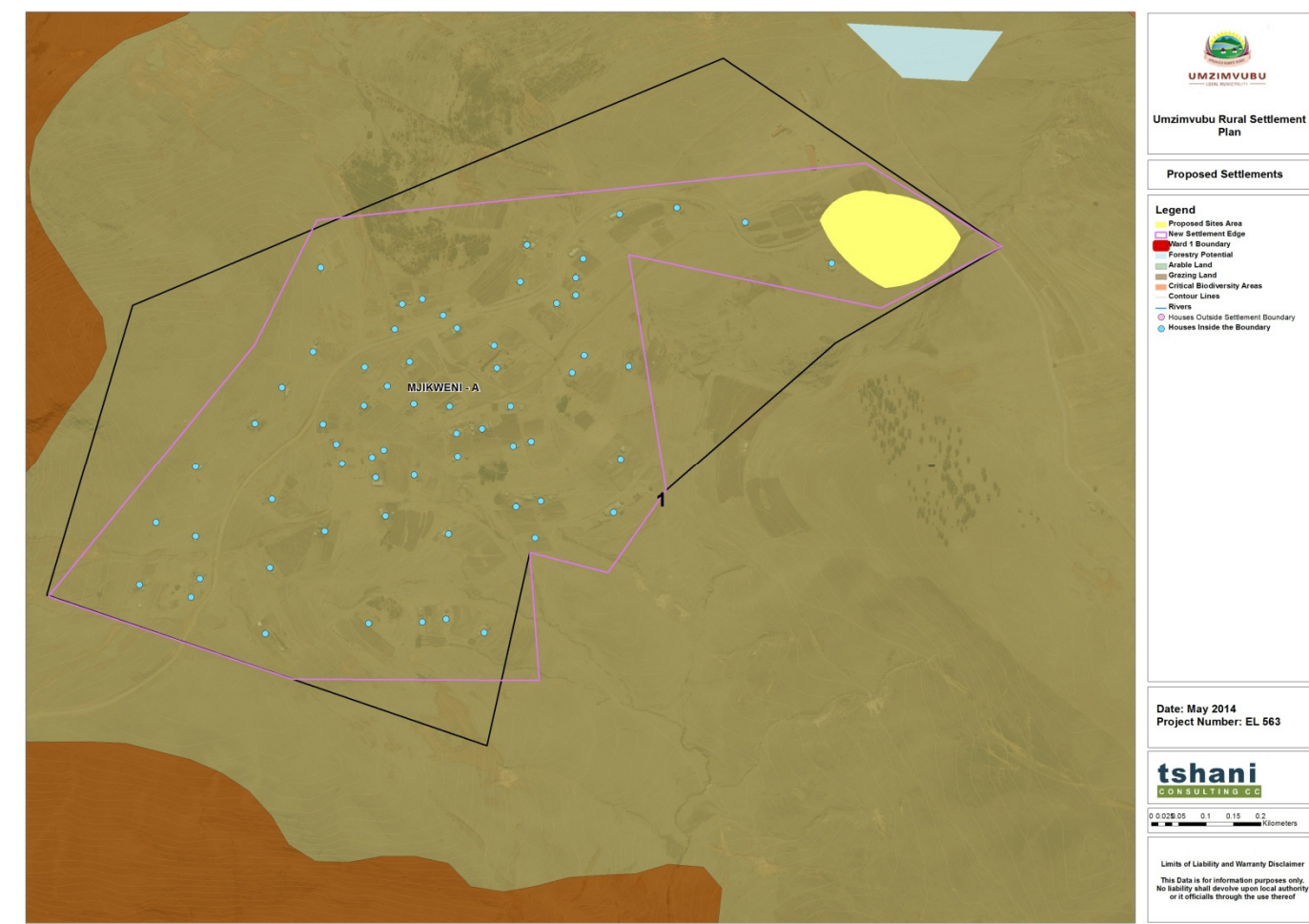


A total area of approximately 1.3 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
New Look	2 563	0.4%	202	2 765	466	0.28%	26	492	500m <sup>2</sup>	1.3 Ha (26 sites)

E5.1.4 Mjikweni A

In terms of the projection figures calculated over a 20-year period, an *additional four (4) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. It is evident that the expansion area can be accommodated within the existing settlement boundaries.



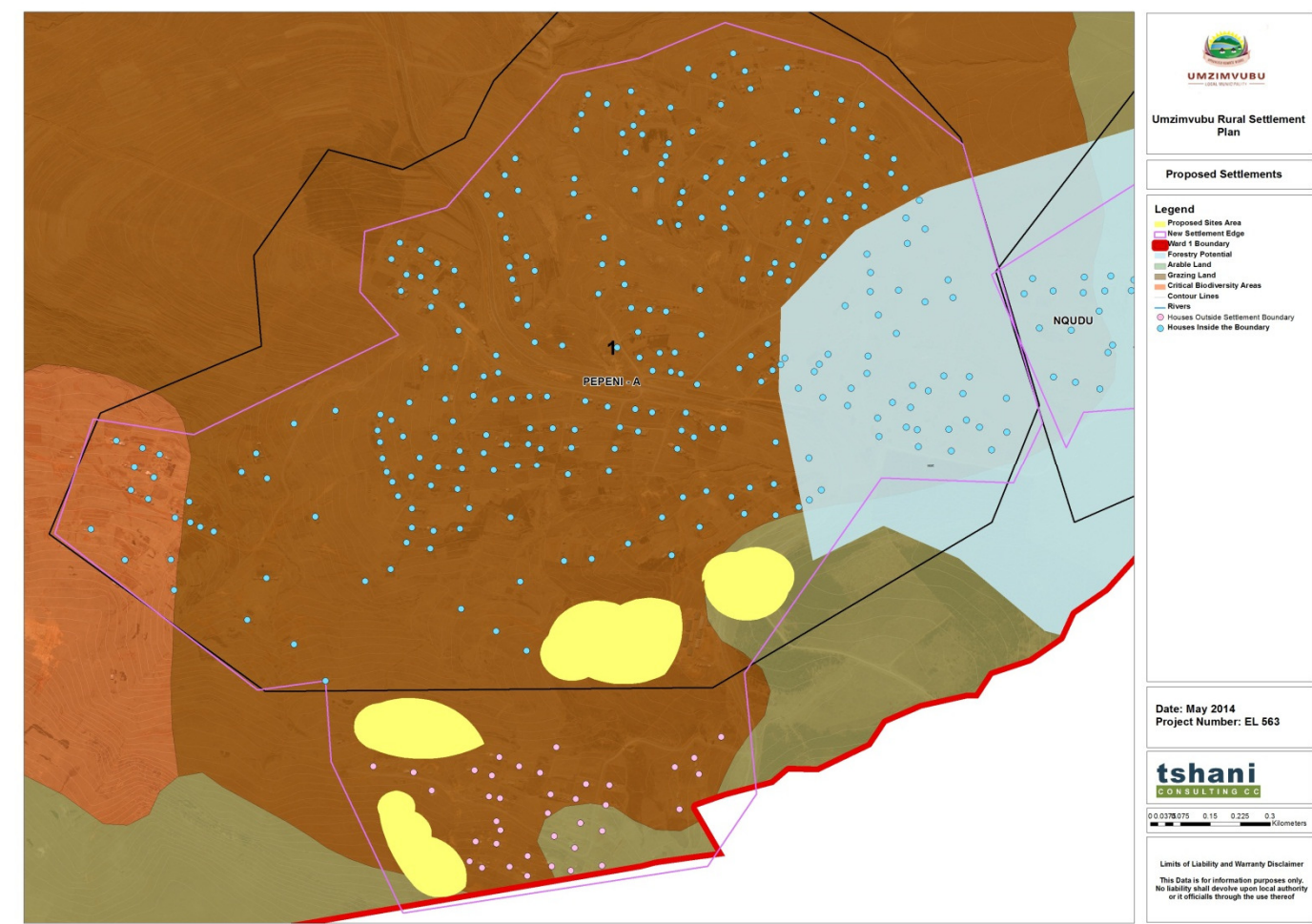
A total area of approximately 0.2 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Mjikweni A	352	0.4%	28	380	64	0.28%	4	68	500m <sup>2</sup>	0.2 Ha (4 sites)



E5.1.5 Pepeni A

In terms of the projection figures calculated over a 20-year period, an *additional twenty-four (24) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.

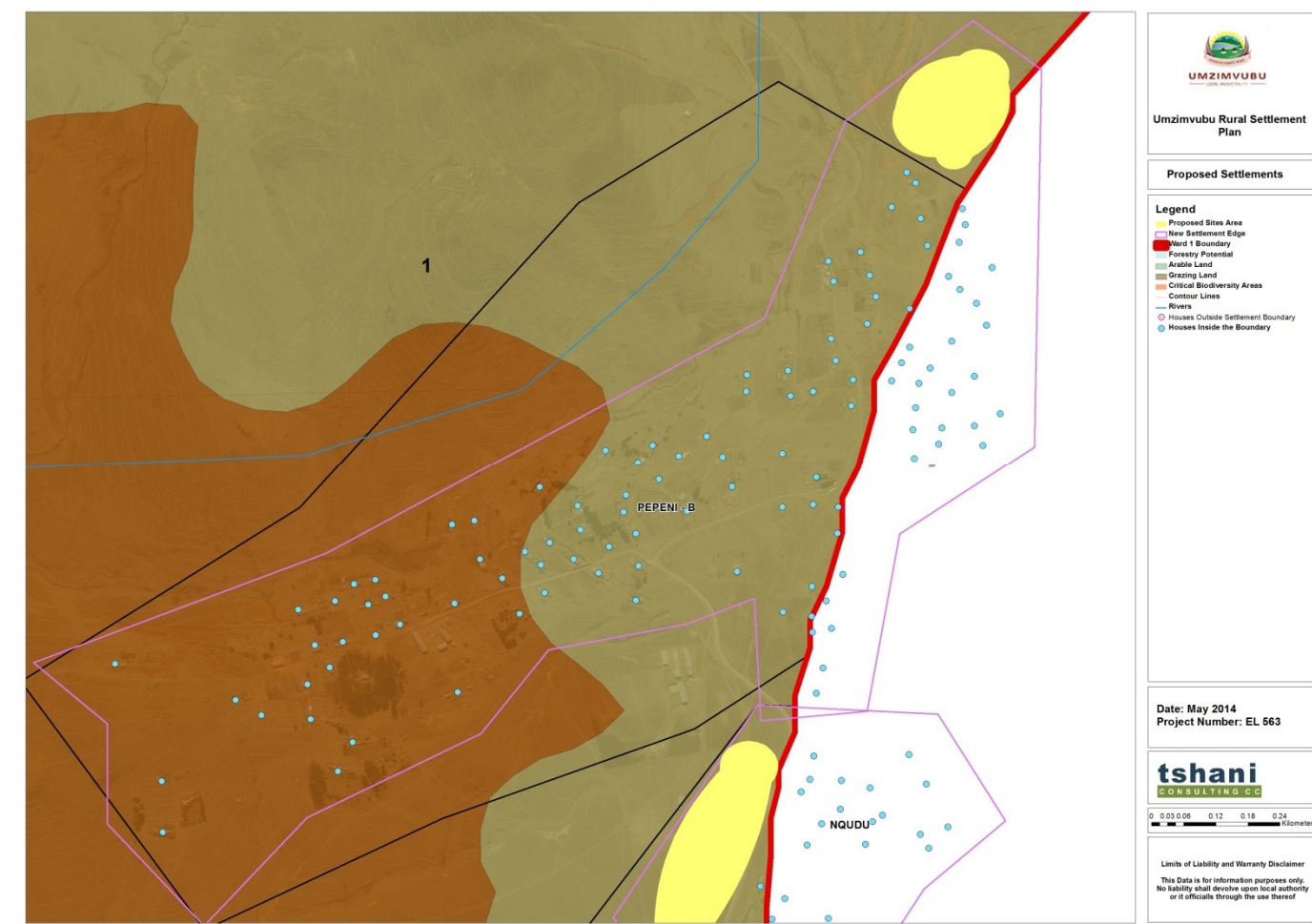


A total area of approximately 1.2 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Pepeni A	2 343	0.4%	185	2 528	426	0.28%	24	450	500m <sup>2</sup>	1.2 Ha (24 sites)

E5.1.6 Pepeni B

In terms of the projection figures calculated over a 20-year period, an *additional six (6) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.

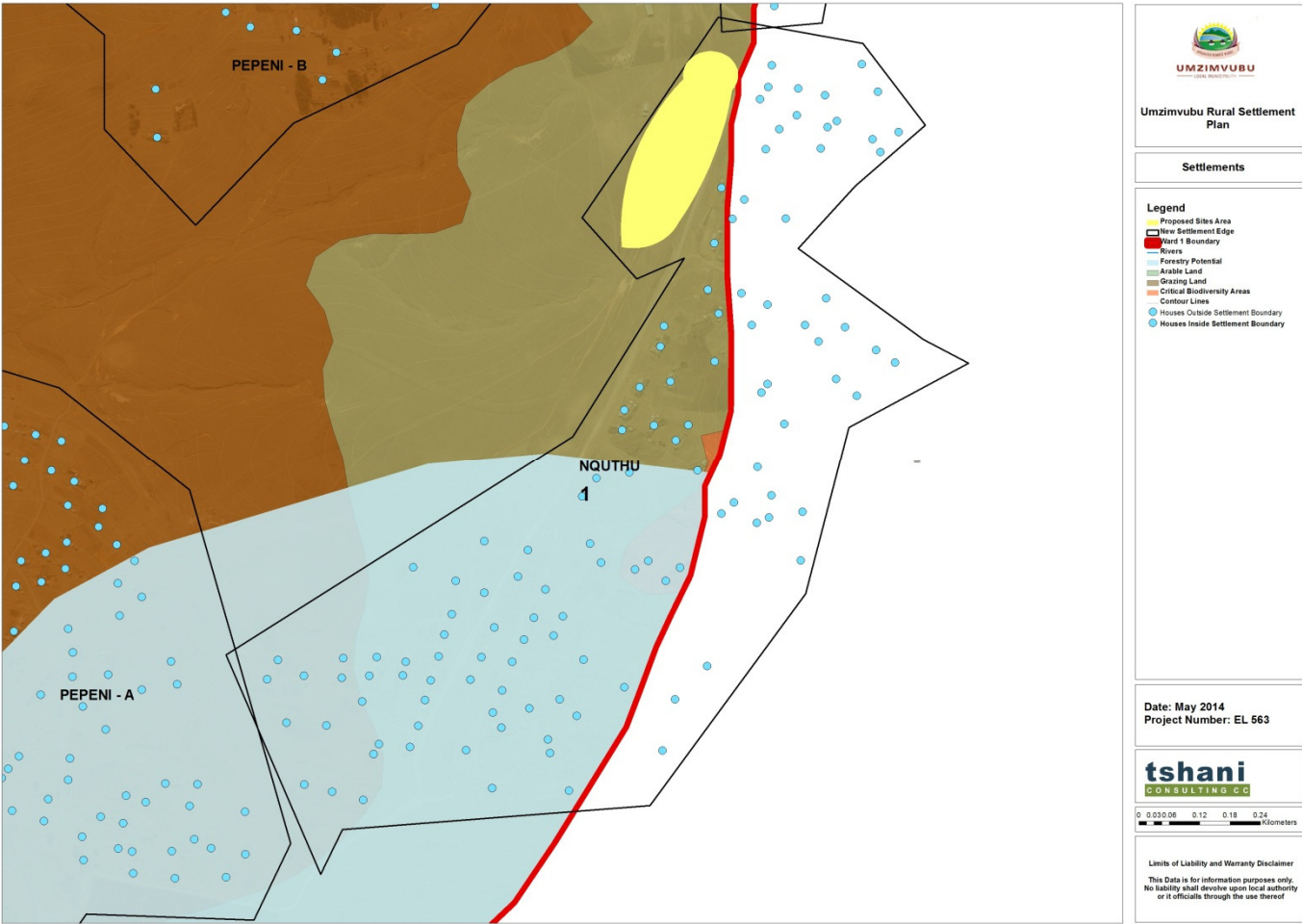


A total area of approximately 0.3 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Pepeni B	622	0.4%	49	671	113	0.28%	6	119	500m <sup>2</sup>	0.3 Ha (6 sites)

E5.1.7 Nquthu

In terms of the projection figures calculated over a 20-year period, an *additional seven (7) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. It is evident that the expansion area can be accommodated within the existing settlement boundaries.



A total area of approximately *0.35 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Nquthu	644	0.4%	51	695	117	0.28%	7	124	500m <sup>2</sup>	0.35 Ha (7 sites)



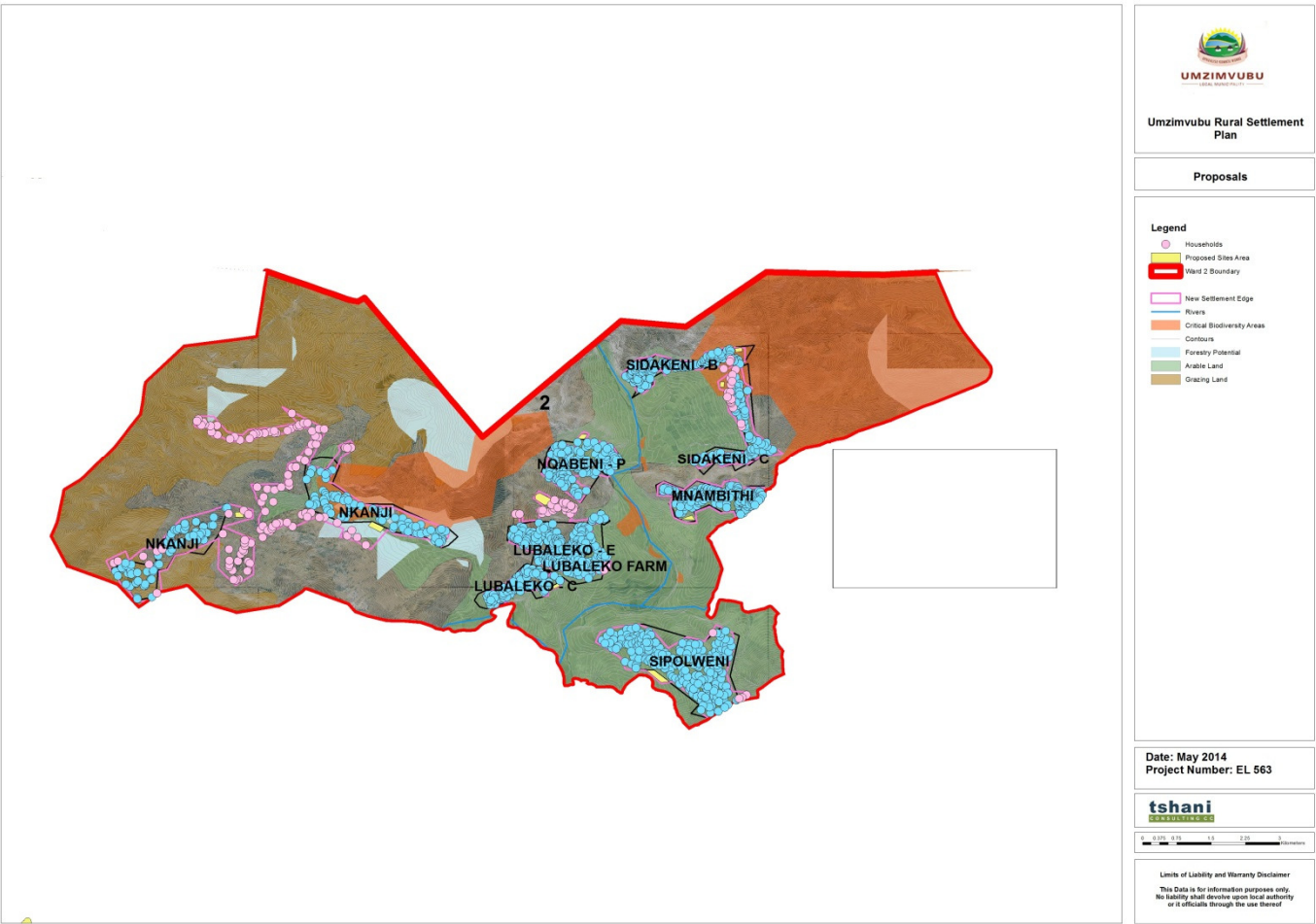
E5.2 Settlement Growth: Ward 2

As indicated in Table No. 14 above, there are currently 1 244 households located within Ward 2. At a household growth rate of 0.28% per annum, a total number of 66 households is projected over a 20 year period. This equates to approximately 5.3 Hectares in extent required to accommodate the projected households.

In some instances, these areas have been accommodated within the existing settlement boundaries. However, where the topography does not allow for development or where ‘Critical Biodiversity Areas’ exist, expansion areas have been allocated outside the settlement boundaries and the settlement boundaries have been realigned.

The plan below is indicative of the following:

- ▶ Households within settlement boundaries (blue)
- ▶ Households outside settlement boundaries (pink)
- ▶ New expansion areas to accommodate projected households (yellow)
- ▶ Arable land (green)
- ▶ Grazing land (brown)
- ▶ Critical Biodiversity Areas (orange)
- ▶ Existing settlement boundaries (black)
- ▶ New settlement boundaries (purple)



PLAN NO. 10: SETTLEMENT GROWTH: WARD 2

The table below indicates the existing population and projected population growth over a 20 year period, as well as the existing number of households, the projected growth over a 20 year period and the number of sites required to accommodated the projected growth rate.

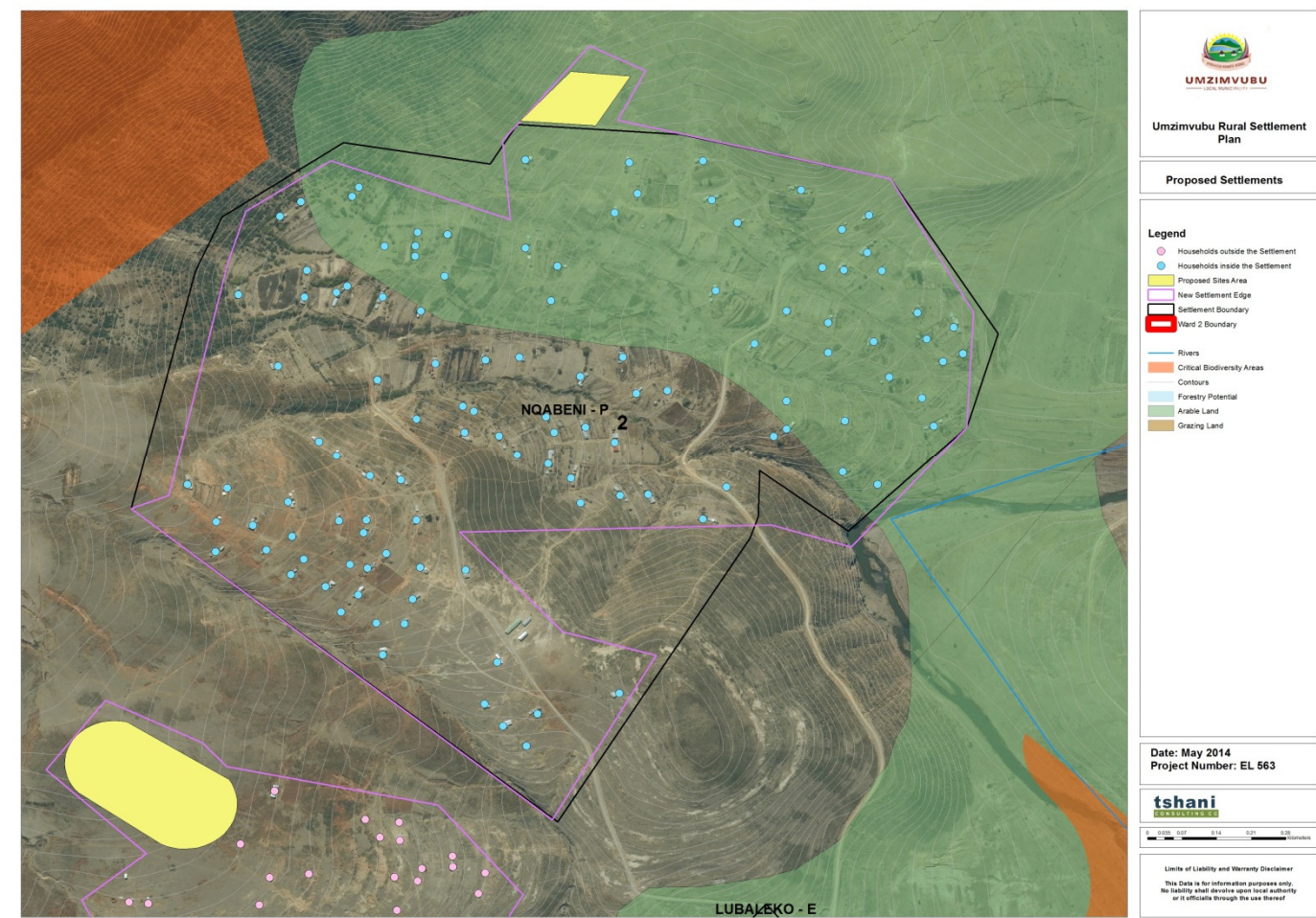
WARD	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
2	5847	0.4%	461	6308	1244	0.28%	66	1310	500m² and 1 000m²	5.3 Ha (66 sites)

The analysis for each settlement within Ward 2 is represented hereunder.



E5.2.1 Nqabeni P

In terms of the projection figures calculated over a 20-year period, an *additional seven (7) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth.

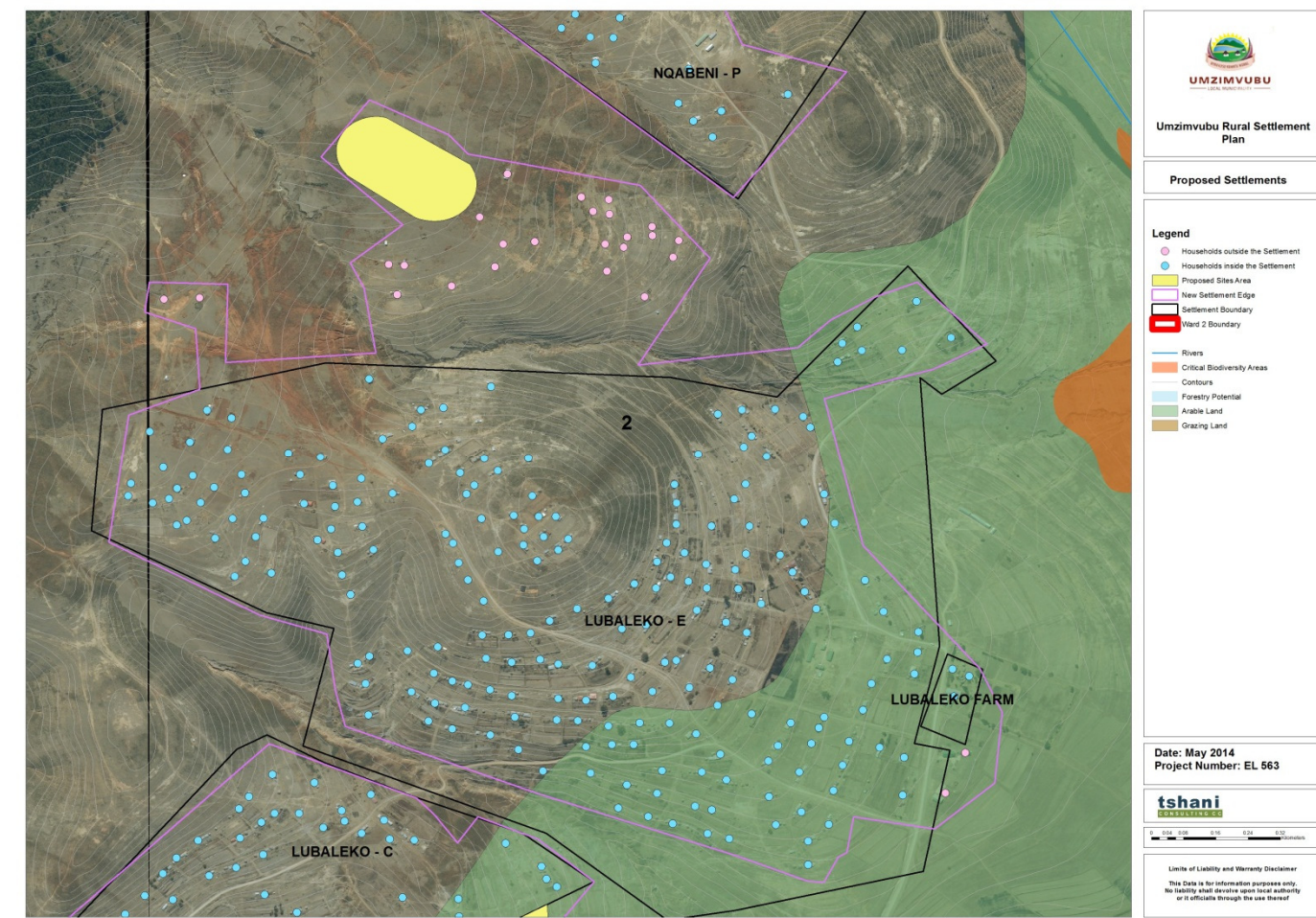


A total area of approximately 0.35 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Nqabeni P	630	0.4%	50	680	134	0.28%	7	141	500m <sup>2</sup>	0.35Ha (7 sites)

E5.2.2 Lubaleko E

In terms of the projection figures calculated over a 20-year period, an *additional eleven (11) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



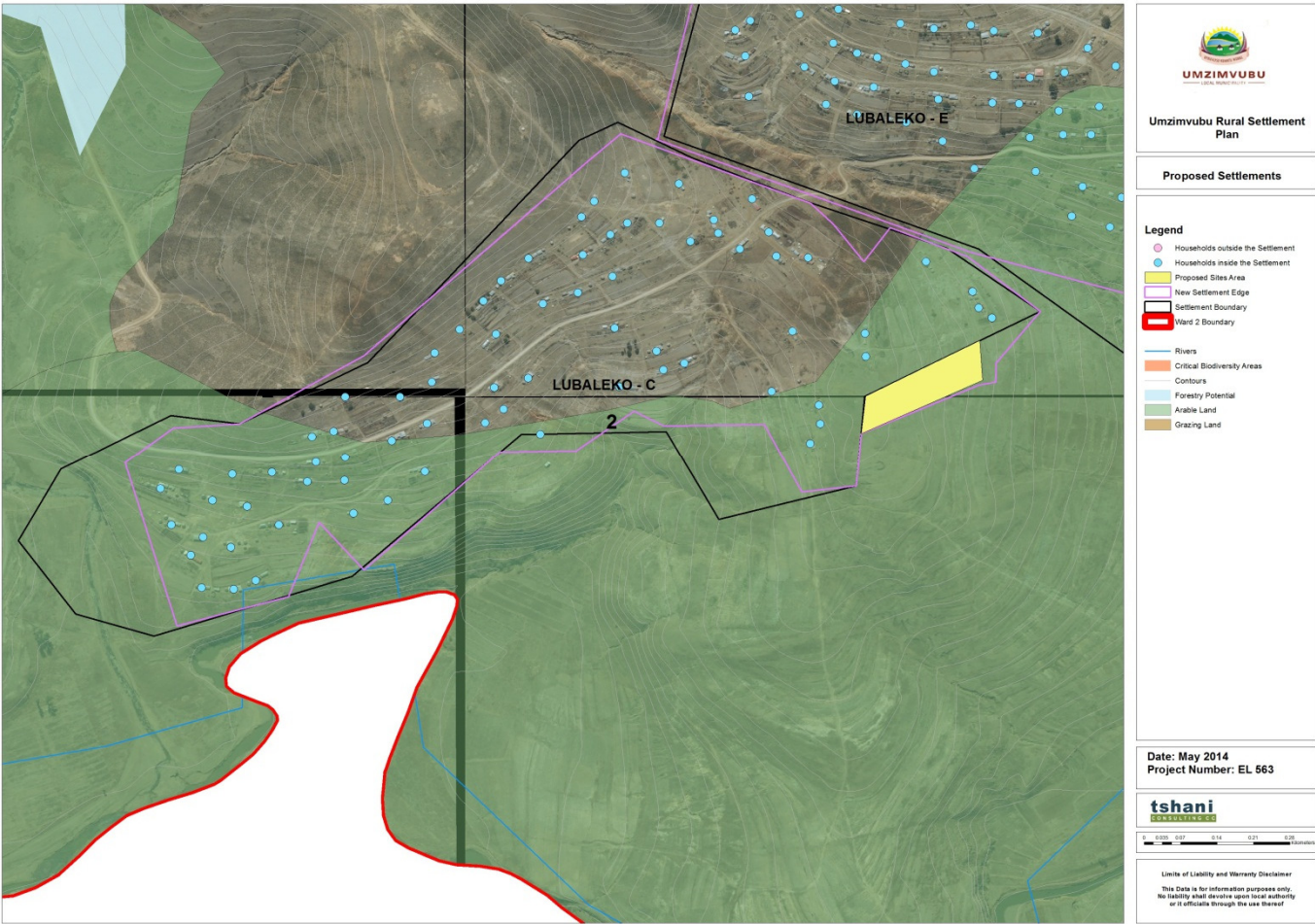
A total area of approximately 1.1 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Lubaleko E	968	0.4%	76	1 044	206	0.28%	11	217	1 000m <sup>2</sup>	1.1Ha (11 sites)



E5.2.3 Lubaleko C

In terms of the projection figures calculated over a 20-year period, an *additional four (4) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth.



A total area of approximately 0.4 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Lubaleko C	334	0.4%	26	360	71	0.28%	4	75	1 000m <sup>2</sup>	0.4Ha (4 sites)

E5.2.4 Sipolweni

In terms of the projection figures calculated over a 20-year period, an *additional eleven (11) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



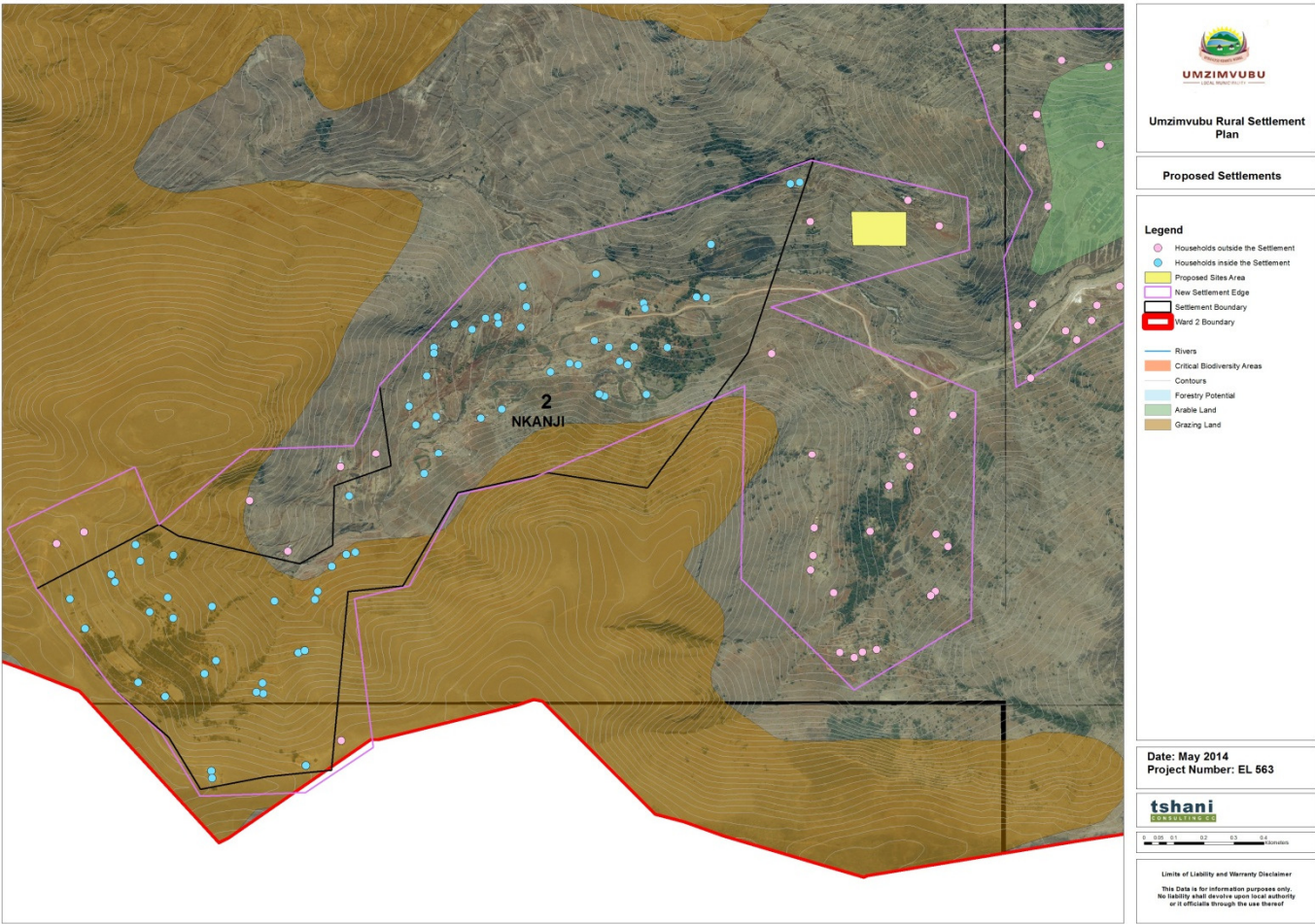
A total area of approximately 1.1 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Sipolweni	973	0.4%	77	1 050	207	0.28%	11	218	1 000m <sup>2</sup>	1.1Ha (11 sites)



E5.2.5 Nkanji 2

In terms of the projection figures calculated over a 20-year period, an *additional nine (9) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.

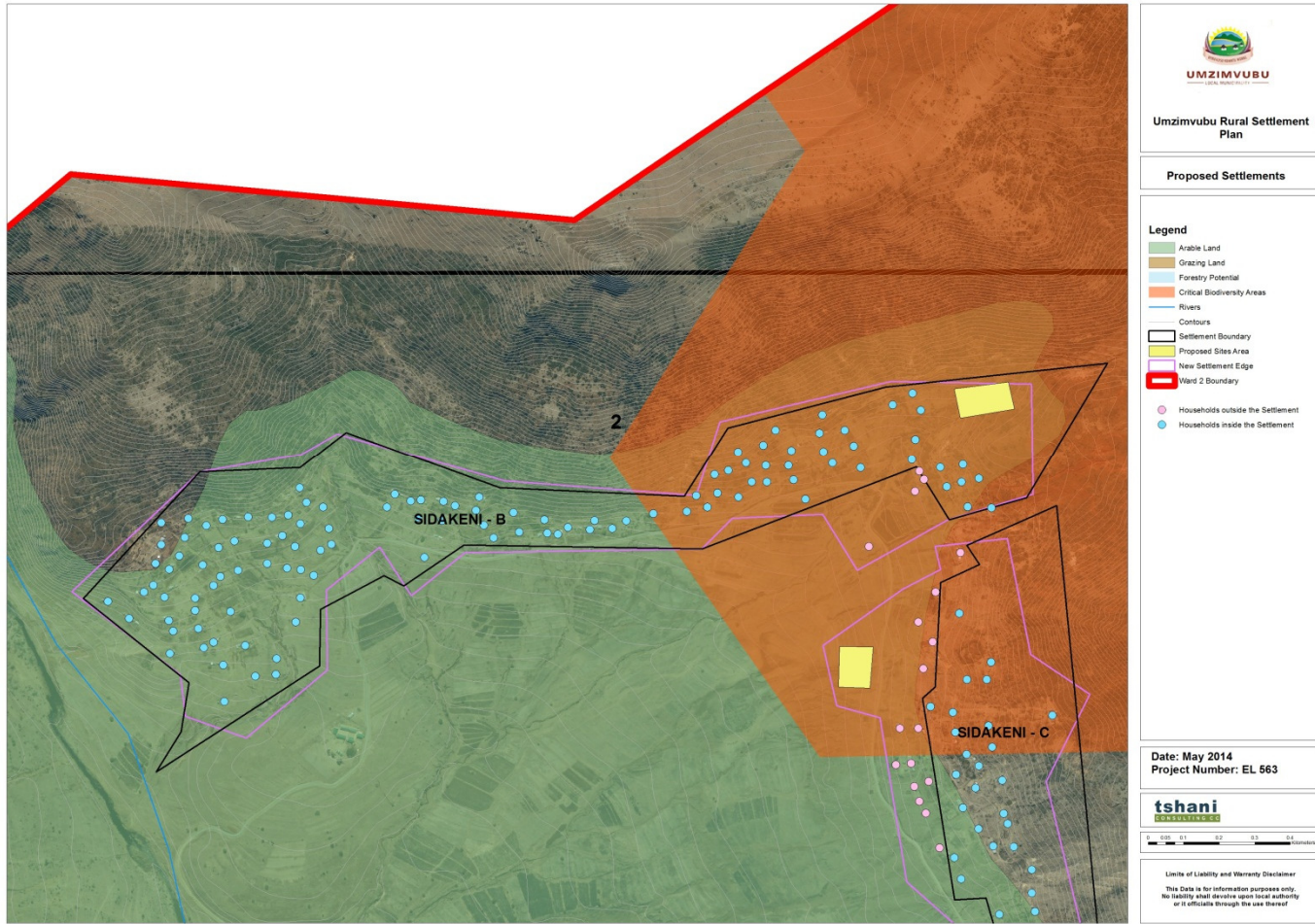


A total area of approximately 0.9 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Nkanji 2	776	0.4%	61	837	165	0.28%	9	174	1 000m <sup>2</sup>	0.9Ha (9 sites)

E5.2.6 Sidakeni B

In terms of the projection figures calculated over a 20-year period, an *additional six (6) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



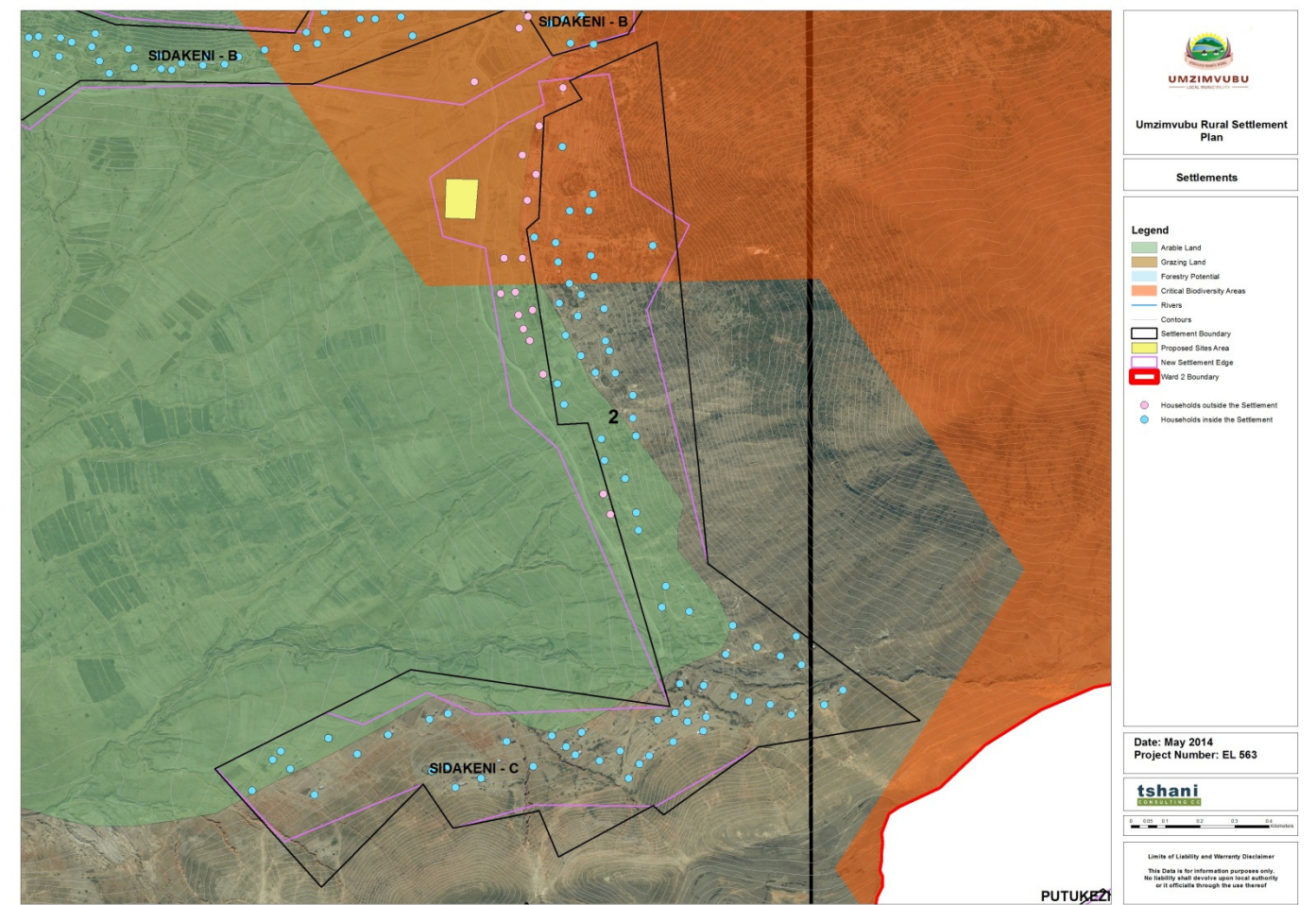
A total area of approximately 0.3 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Sidakeni B	526	0.4%	41	567	112	0.28%	6	118	500m <sup>2</sup>	0.3Ha (6 sites)



E5.2.7 Sidakeni C

In terms of the projection figures calculated over a 20-year period, an *additional five (5) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.

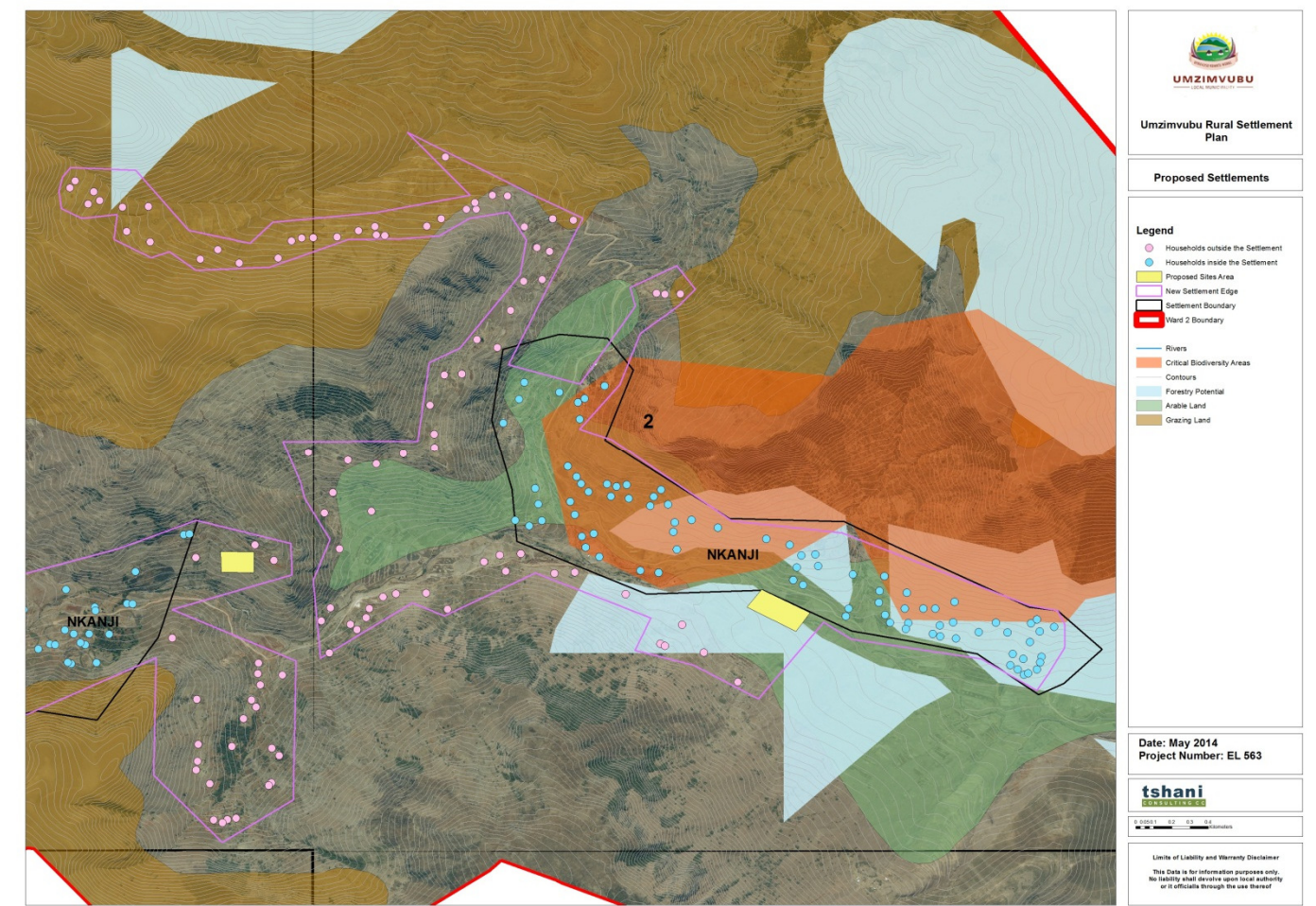


A total area of approximately 0.25 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Sidakeni C	451	0.4%	36	487	96	0.28%	5	101	500m <sup>2</sup>	0.25Ha (5 sites)

E5.2.8 Nkanji

In terms of the projection figures calculated over a 20-year period, an *additional five (5) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



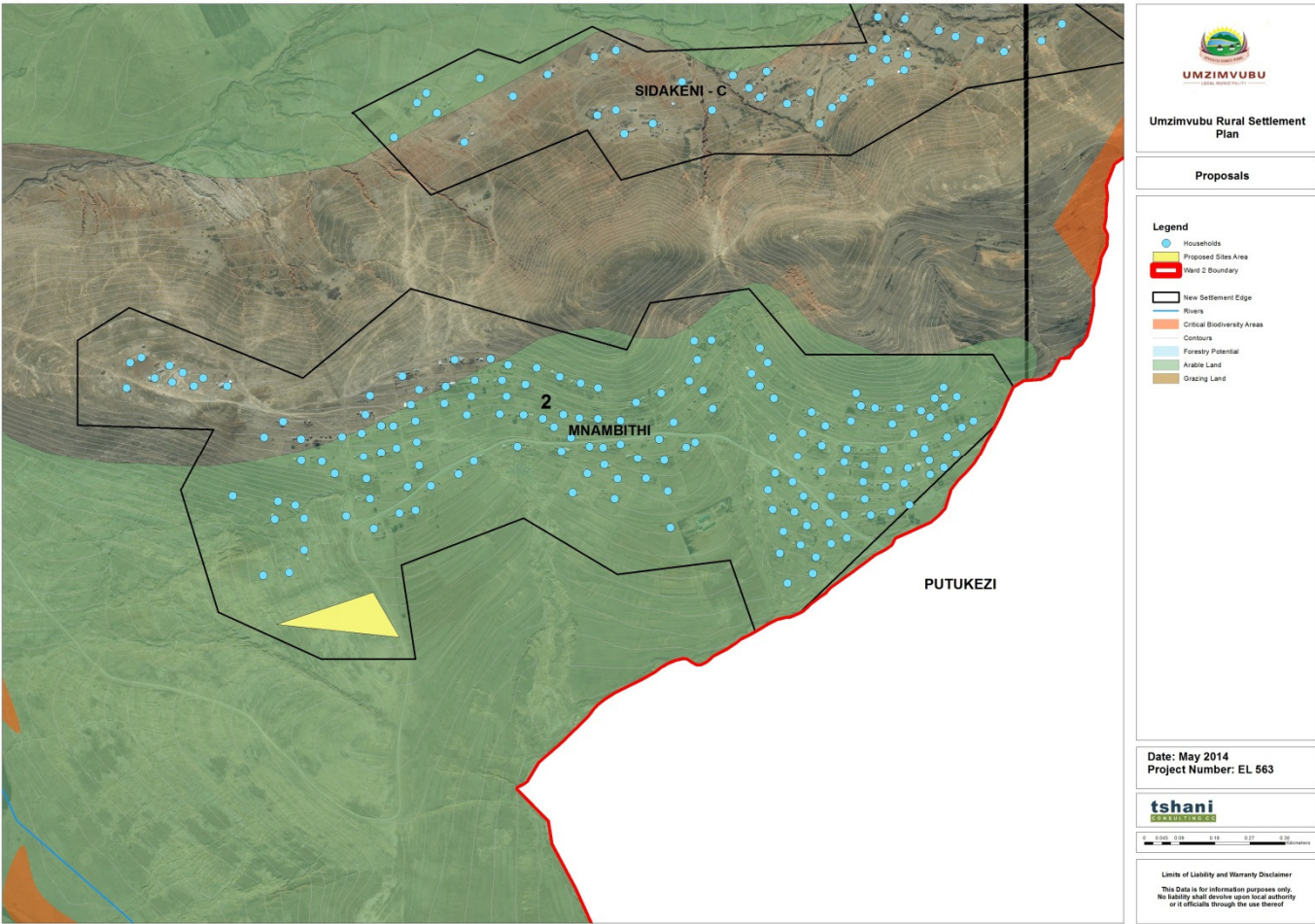
A total area of approximately 0.5 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Nkanji	470	0.4%	37	507	100	0.28%	5	105	1 000m <sup>2</sup>	0.5Ha (5 sites)



E5.2.9 Mnambithi

In terms of the projection figures calculated over a 20-year period, an *additional eight (8) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



A total area of approximately 0.4 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Mnambithi	719	0.4%	57	776	153	0.28%	8	161	500m²	0.4Ha (8 sites)

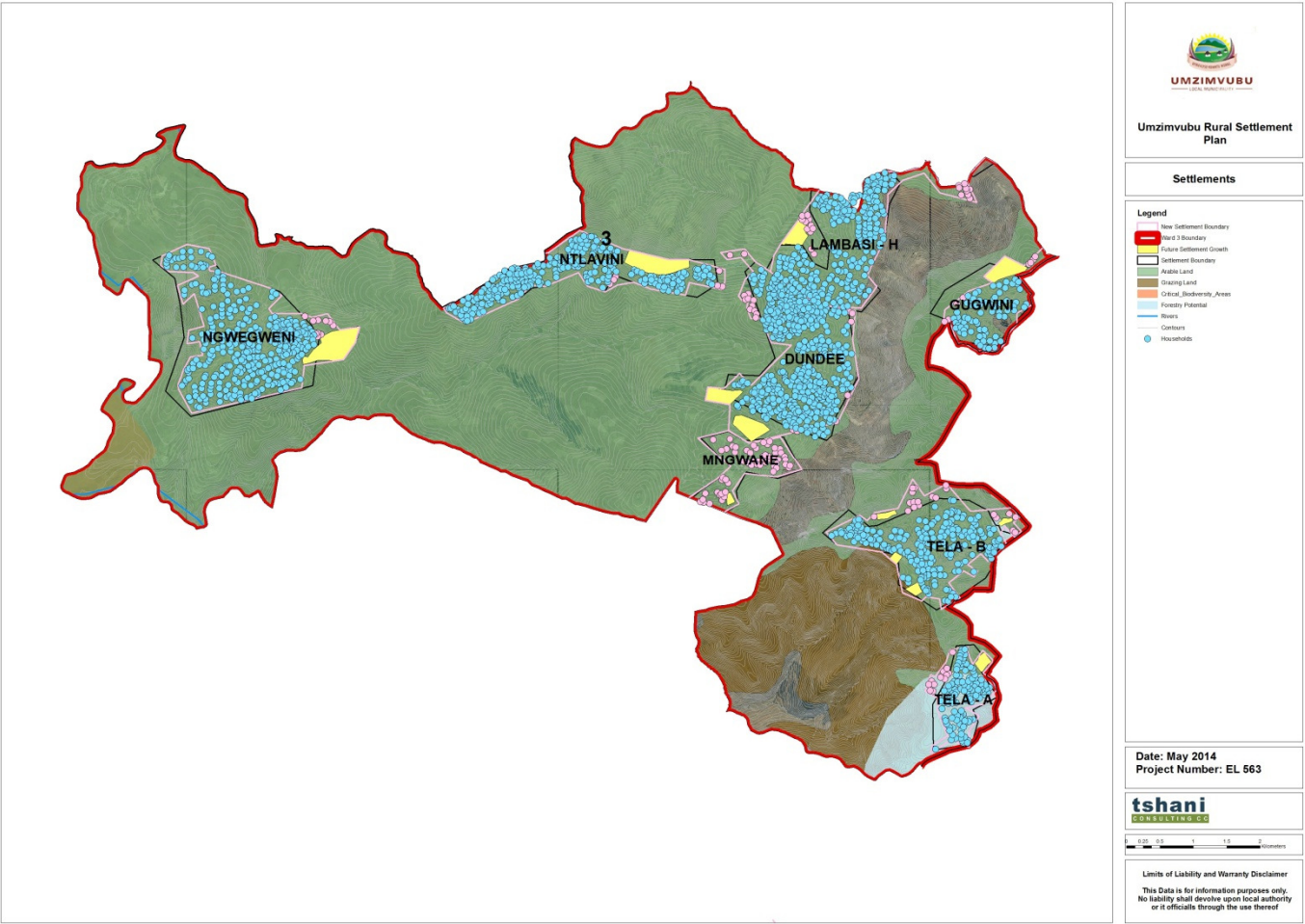
E5.3 Settlement Growth: Ward 3

As indicated in Table No. 14 above, there are currently 1 790 households located within Ward 3. At a household growth rate of 0.28% per annum, a total number of 96 households is projected over a 20 year period. This equates to approximately 6.4 Hectares in extent required to accommodate the projected households.

In some instances, these areas have been accommodated within the existing settlement boundaries. However, where the topography does not allow for development or where ‘Critical Biodiversity Areas’ exist, expansion areas have been allocated outside the settlement boundaries and the settlement boundaries have been realigned.

The plan below is indicative of the following:

- ▶ Households within settlement boundaries (blue)
- ▶ Households outside settlement boundaries (pink)
- ▶ New expansion areas to accommodate projected households (yellow)
- ▶ Arable land (green)
- ▶ Grazing land (brown)
- ▶ Critical Biodiversity Areas (orange)
- ▶ Existing settlement boundaries (black)
- ▶ New settlement boundaries (purple)



PLAN NO. 11: SETTLEMENT GROWTH: WARD 3

The table below indicates the existing population and projected population growth over a 20 year period, as well as the existing number of households, the projected growth over a 20 year period and the number of sites required to accommodated the projected growth rate.

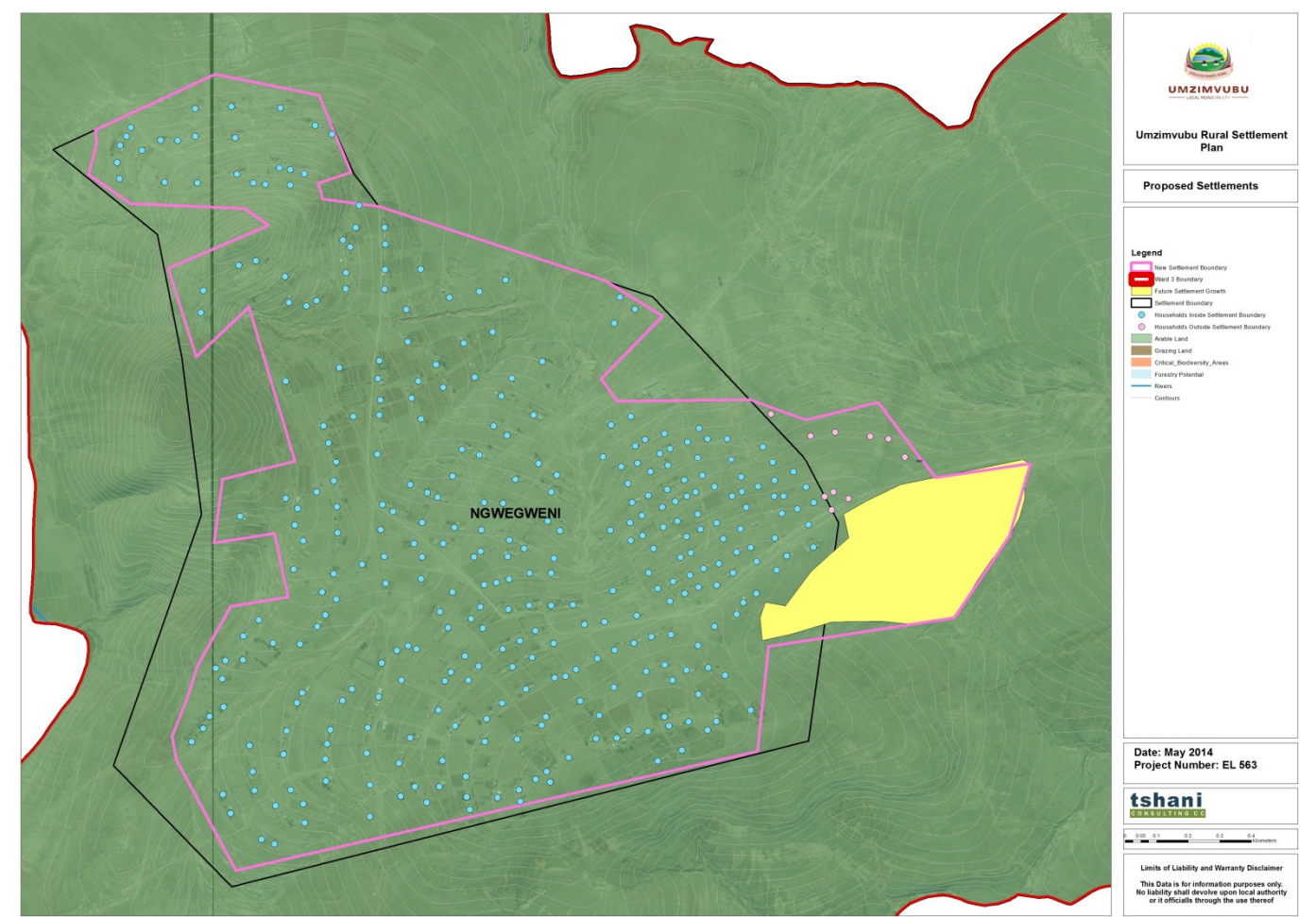
WARD	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM PRESCRIBED EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
3	8 592	0.4%	676	9 268	1790	0.28%	96	1886	500m² and 1 000m²	7.1 Ha (96 sites)

The analysis for each settlement within Ward 3 is represented hereunder.



E5.3.1 Ngwegweni Settlement

In terms of the projection figures calculated over a 20-year period, an *additional eighteen (18) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.

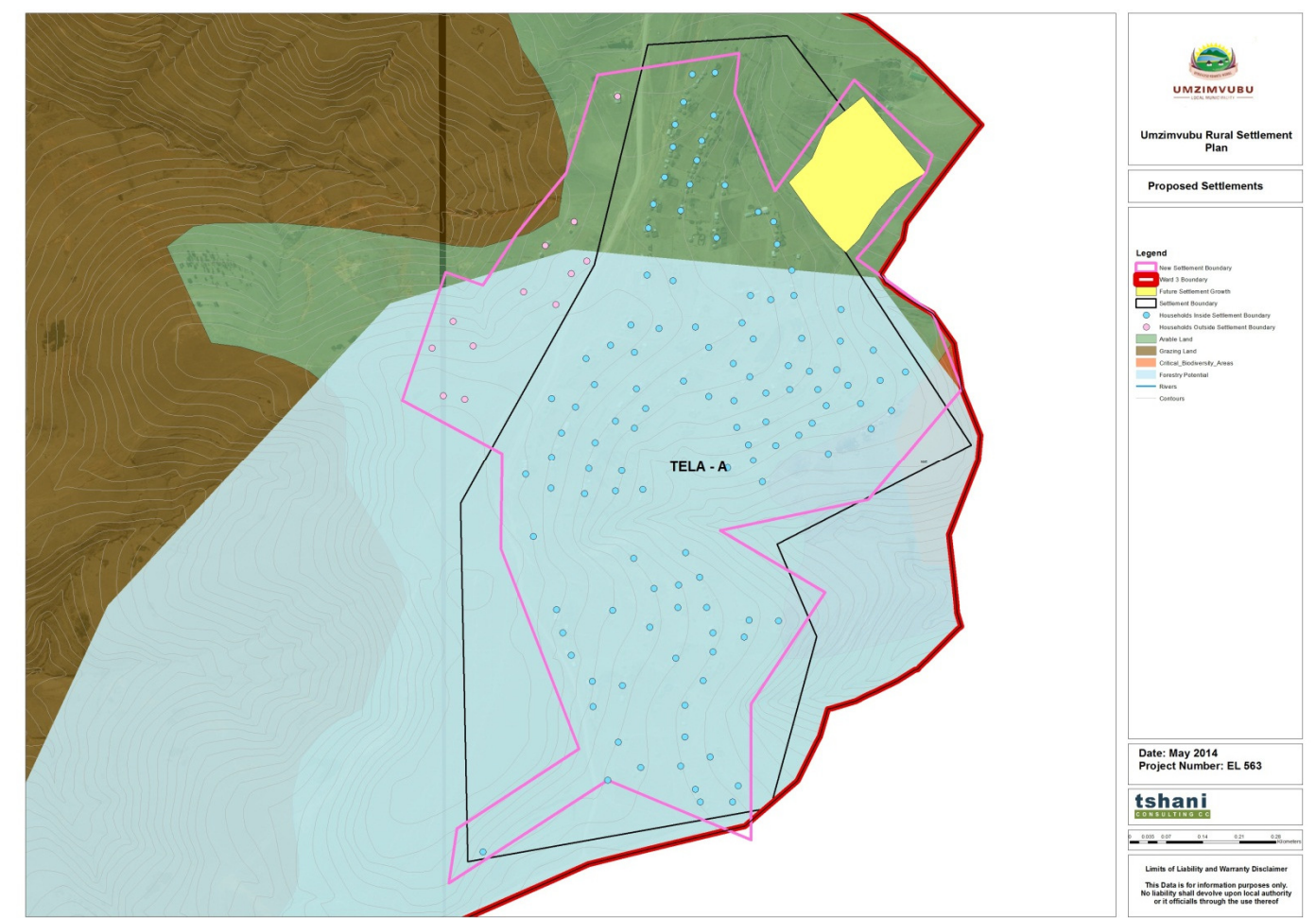


A total area of approximately 1.8 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM PRESCRIBED EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Ngwegweni	1 632	0.4%	129	1 761	340	0.28%	18	358	1 000m <sup>2</sup>	1.8Ha (18 sites)

E5.3.2 Tela A Settlement

In terms of the projection figures calculated over a 20-year period, an *additional seven (7) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



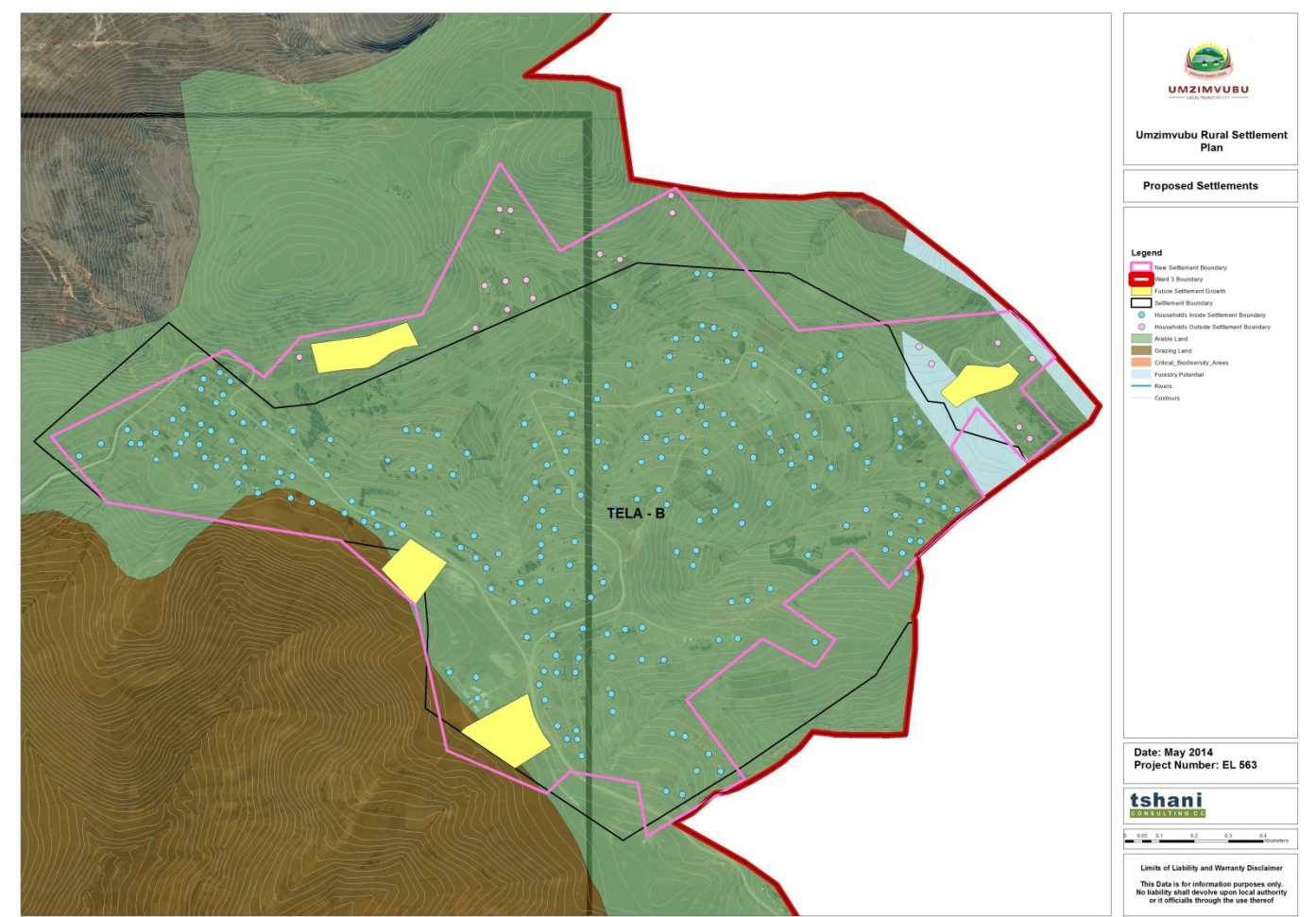
A total area of approximately 0.35 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM PRESCRIBED EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Tela A	614	0.4%	48	662	128	0.28%	7	135	500m <sup>2</sup>	0.35Ha (7 sites)



E5.3.3 Tela B Settlement

In terms of the projection figures calculated over a 20-year period, an *additional thirteen (13) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.

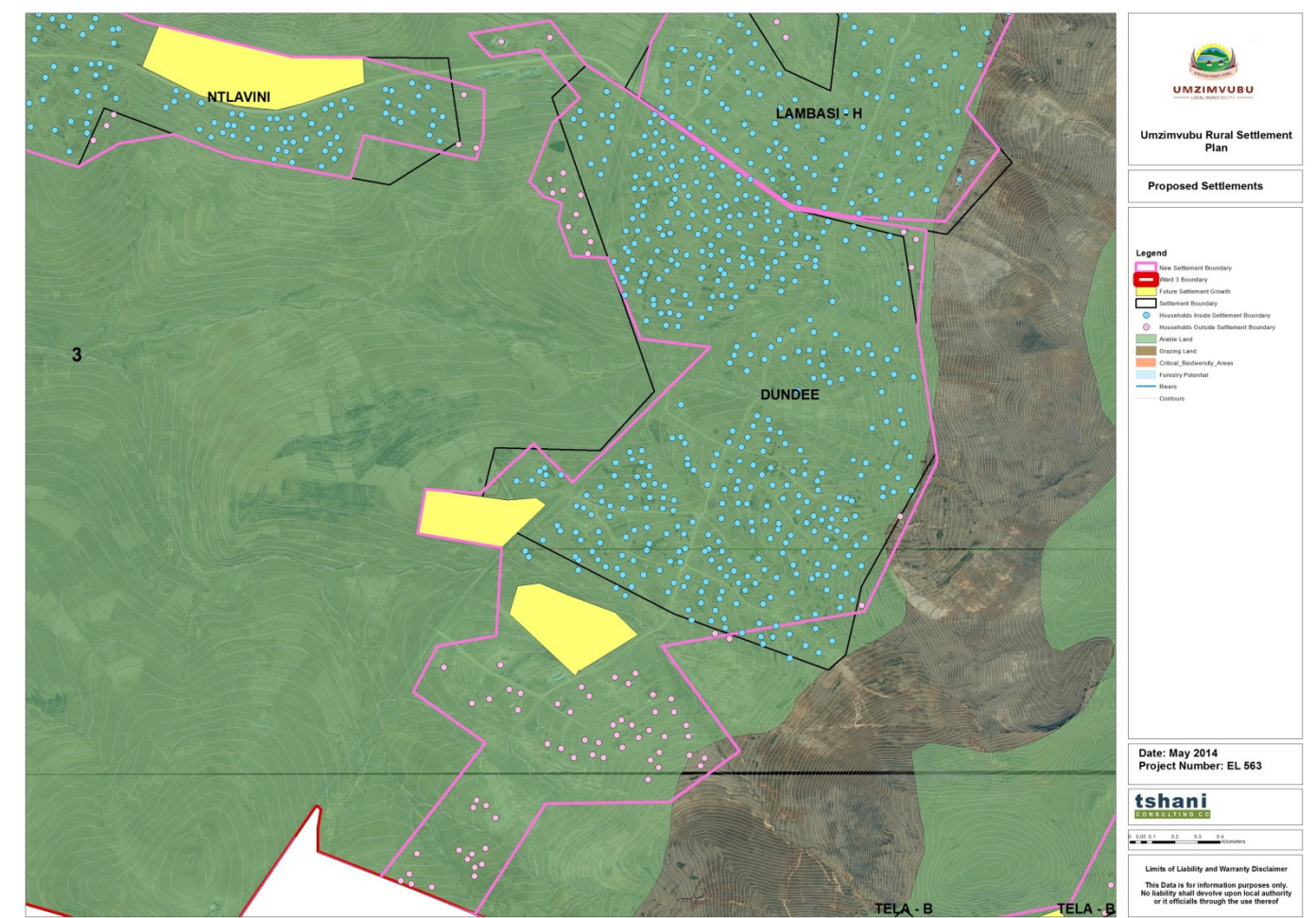


A total area of approximately *0.65 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM PRESCRIBED EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Tela B	1 157	0.4%	91	1 248	241	0.28%	13	254	500m <sup>2</sup>	0.65Ha (13 sites)

E5.3.4 Dundee

In terms of the projection figures calculated over a 20-year period, an *additional twenty-four (24) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



A total area of approximately *1.2 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM PRESCRIBED EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Dundee	2 102	0.4%	166	2 268	438	0.28%	24	462	500m <sup>2</sup>	1.2Ha (24 sites)



E5.3.5 Mngwane

In terms of the projection figures calculated over a 20-year period, an *additional three (3) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.

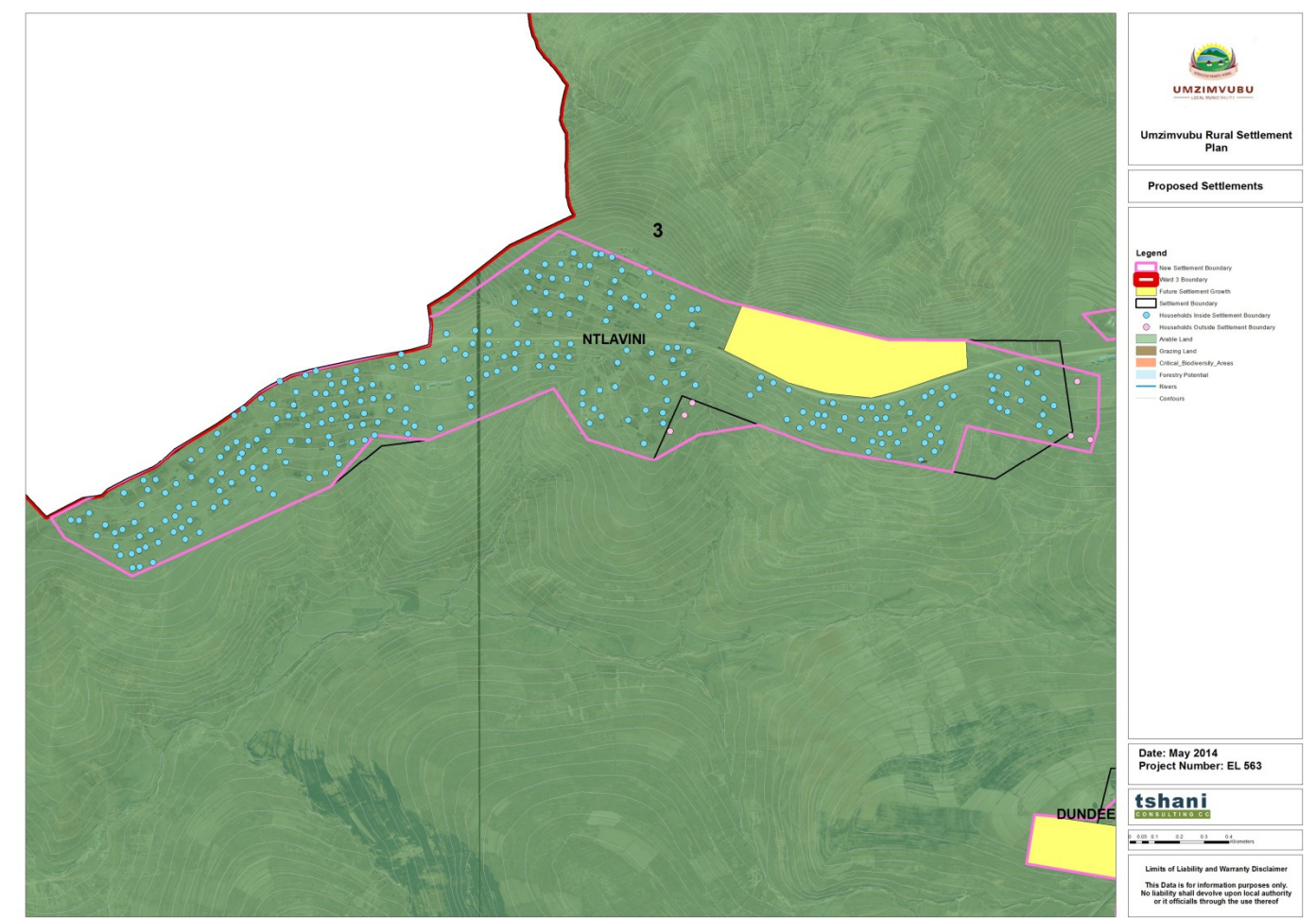


A total area of approximately *0.15 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM PRESCRIBED EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Mngwane	274	0.4%	21	295	57	0.28%	3	60	500m <sup>2</sup>	0.15Ha (3 sites)

E5.3.6 Ntlavini

In terms of the projection figures calculated over a 20-year period, an *additional fourteen (14) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



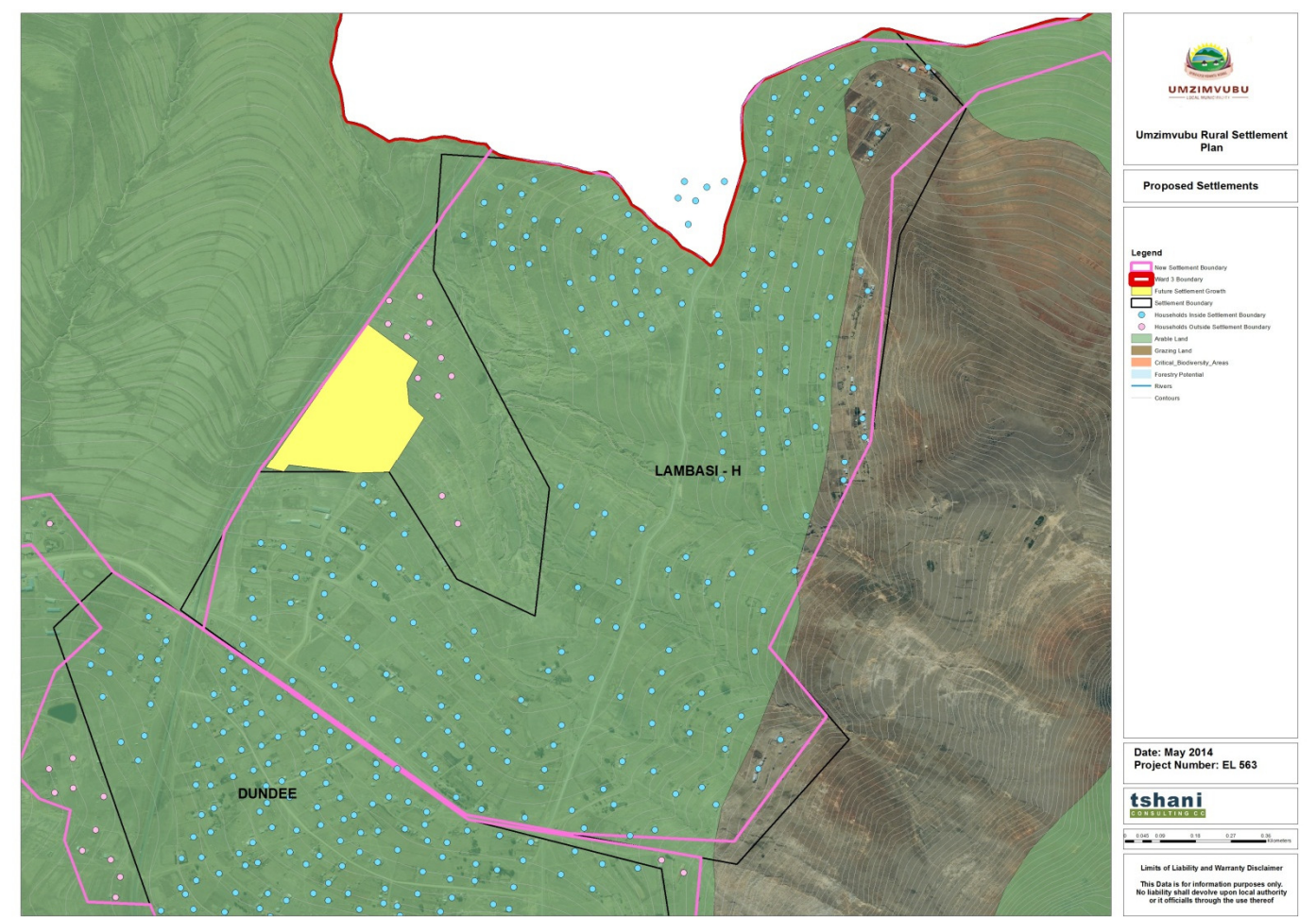
A total area of approximately *2.1 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM PRESCRIBED EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Ntlavini	1 272	0.4%	100	1 372	265	0.28%	14	279	1 000m <sup>2</sup>	2.1Ha (14 sites)



E5.3.7 Lambasi H Settlement

In terms of the projection figures calculated over a 20-year period, an *additional thirteen (13) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



A total area of approximately *0.65 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM PRESCRIBED EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Lambasi H	1 157	0.4%	91	1 248	241	0.28%	13	254	500m <sup>2</sup>	0.65Ha (13 sites)

E5.3.8 Gugwini

In terms of the projection figures calculated over a 20-year period, an *additional four (4) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



A total area of approximately *0.2 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM PRESCRIBED EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Gugwini	384	0.4%	30	414	80	0.28%	4	84	500m <sup>2</sup>	0.2Ha (4 sites)



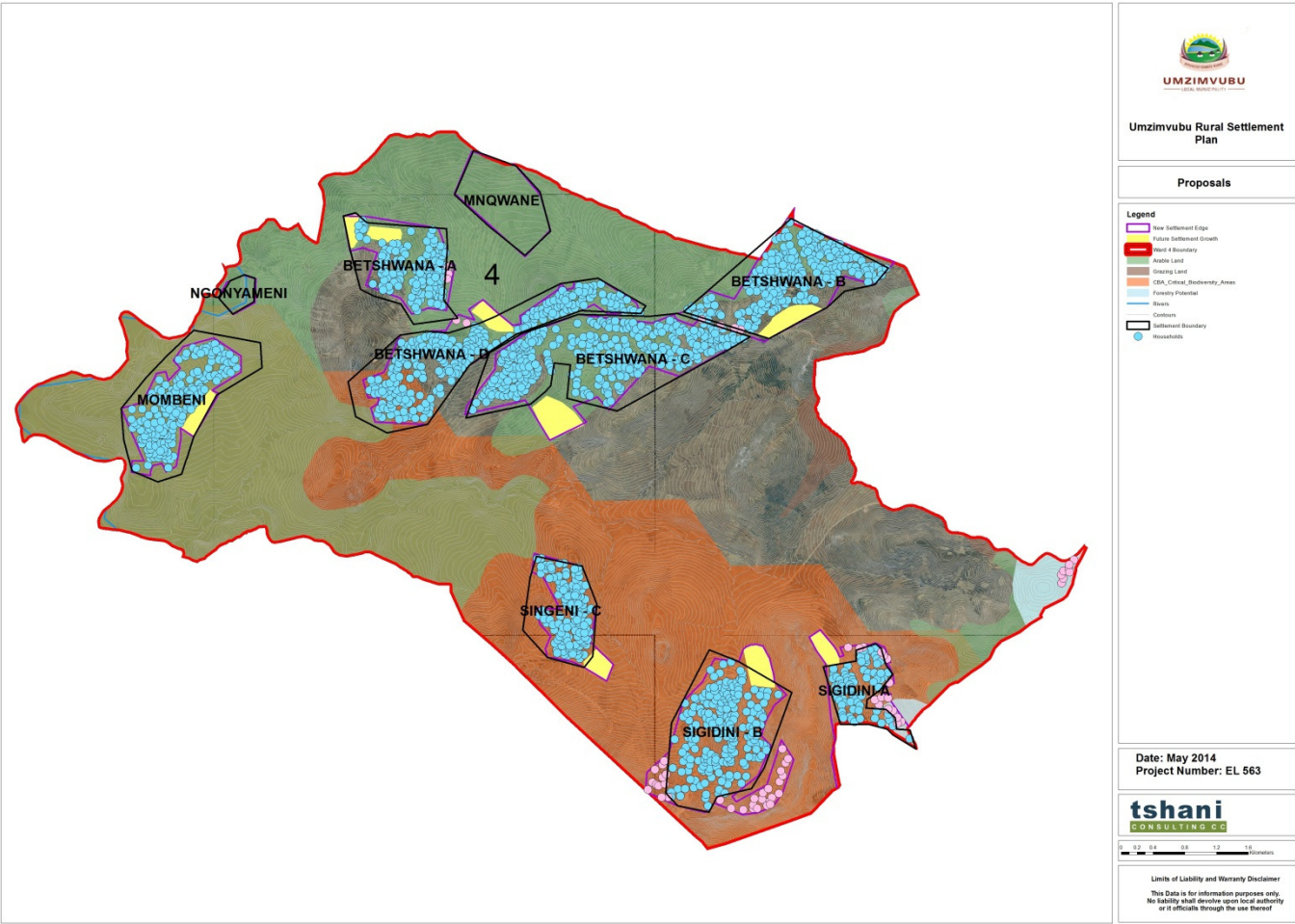
E5.4 Settlement Growth: Ward 4

As indicated in Table No. 14 above, there are currently 1 570 households located within Ward 4. At a household growth rate of 0.28% per annum, a total number of 86 households is projected over a 20 year period. This equates to approximately 4.3 Hectares in extent required to accommodate the projected households.

In some instances, these areas have been accommodated within the existing settlement boundaries. However, where the topography does not allow for development or where ‘Critical Biodiversity Areas’ exist, expansion areas have been allocated outside the settlement boundaries and the settlement boundaries have been realigned.

The plan below is indicative of the following:

- ▶ Households within settlement boundaries (blue)
- ▶ Households outside settlement boundaries (pink)
- ▶ New expansion areas to accommodate projected households (yellow)
- ▶ Arable land (green)
- ▶ Grazing land (brown)
- ▶ Critical Biodiversity Areas (orange)
- ▶ Existing settlement boundaries (black)
- ▶ New settlement boundaries (purple)



PLAN NO. 12: SETTLEMENT GROWTH: WARD 4

The table below indicates the existing population and projected population growth over a 20 year period, as well as the existing number of households, the projected growth over a 20 year period and the number of sites required to accommodated the projected growth rate.

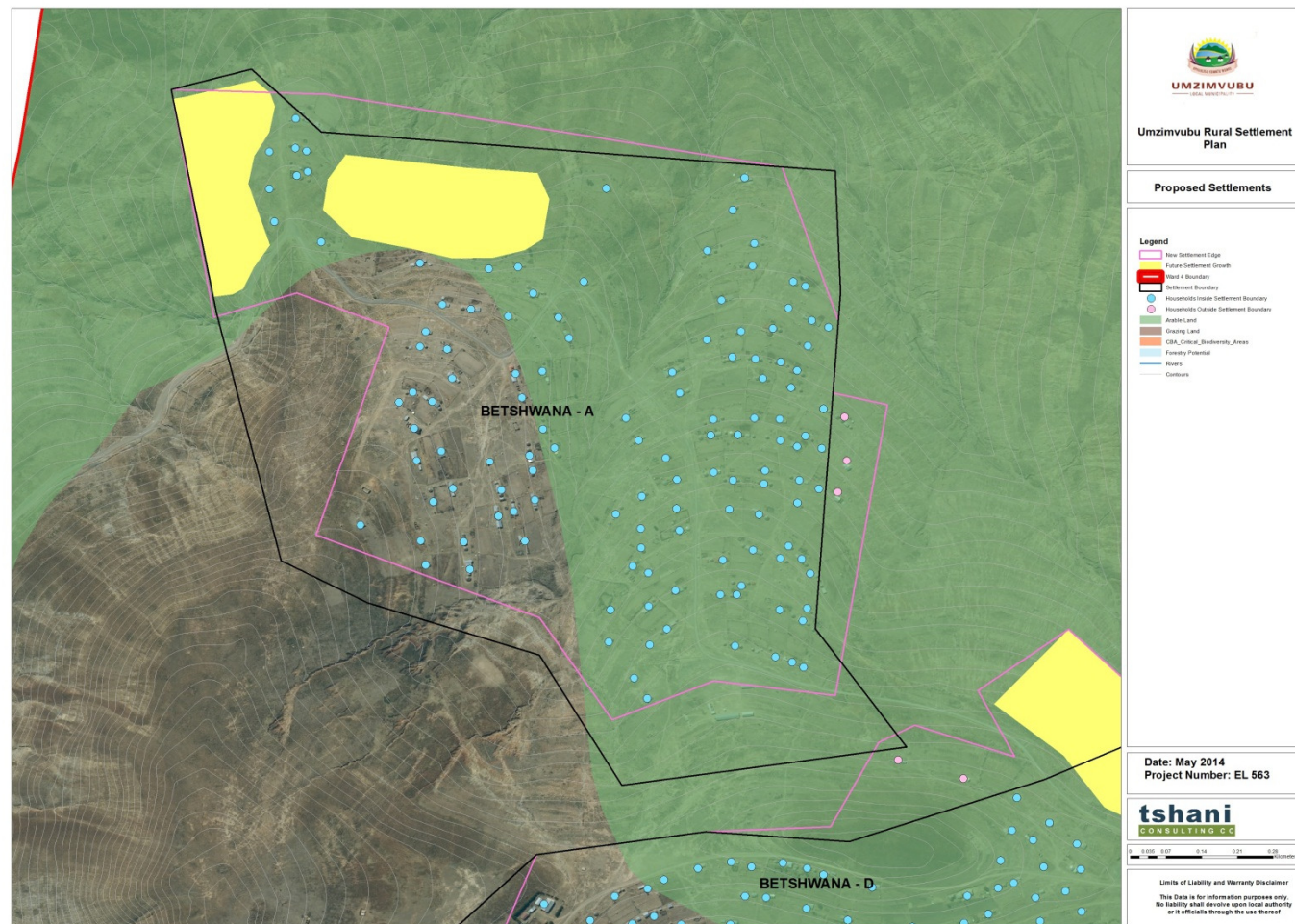
WARD	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
4	6909	0.4%	545	7454	1570	0.28%	86	1656	500m <sup>2</sup>	4.3 Ha (86 sites)

The analysis for each settlement within Ward 4 is represented hereunder.



### E5.4.1 Betshwana A

In terms of the projection figures calculated over a 20-year period, an *additional eight (8) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing 'uncontrolled expansion areas'.

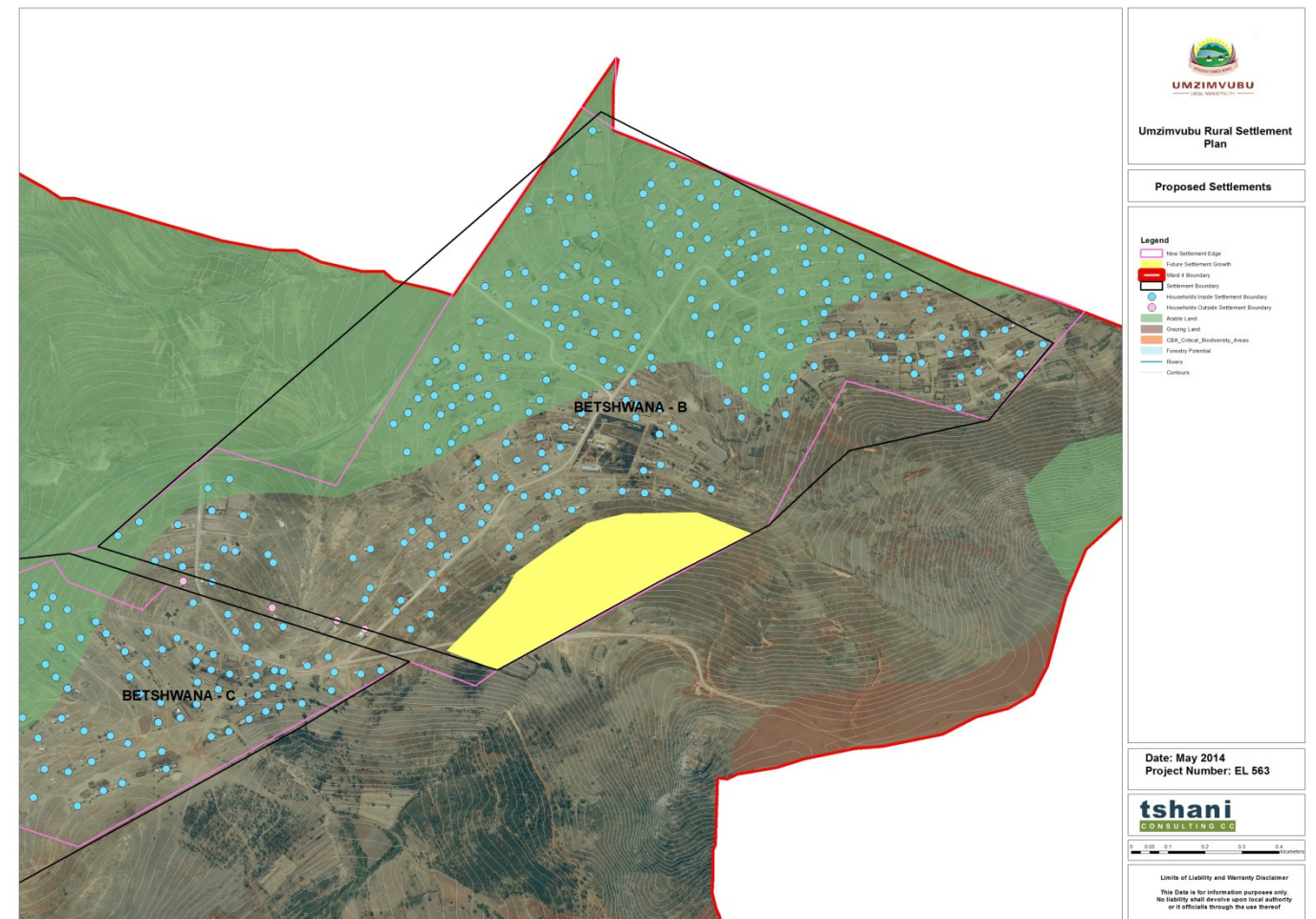


A total area of approximately *0.4 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Betshwana A	634	0.4%	50	684	144	0.28%	8	152	500m <sup>2</sup>	0.4Ha (8 sites)

### E5.4.2 Betshwana B

In terms of the projection figures calculated over a 20-year period, an *additional twelve (12) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. It is evident that the settlement expansion area can be accommodated within the existing settlement boundaries.



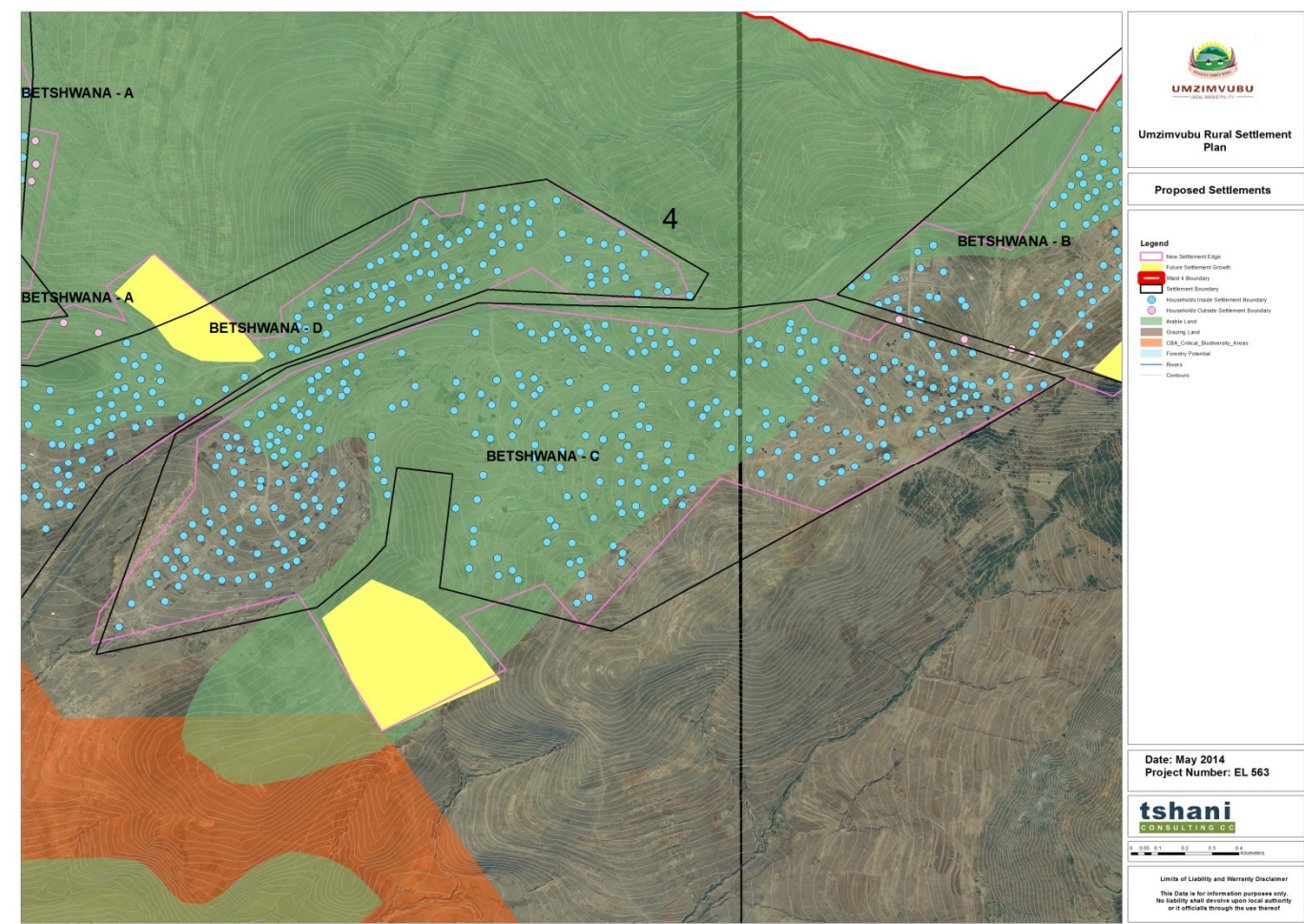
A total area of approximately *0.6 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Betshwana B	964	0.4%	76	1 040	219	0.28%	12	231	500m <sup>2</sup>	0.6Ha (12 sites)



E5.4.3 Betshwana C

In terms of the projection figures calculated over a 20-year period, an *additional seventeen (17) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth.



A total area of approximately *0.85 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Betshwana C	1 346	0.4%	106	1 452	306	0.28%	17	323	500m <sup>2</sup>	0.85Ha (17 sites)

E5.4.4 Betshwana D

In terms of the projection figures calculated over a 20-year period, an *additional fourteen (14) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth.



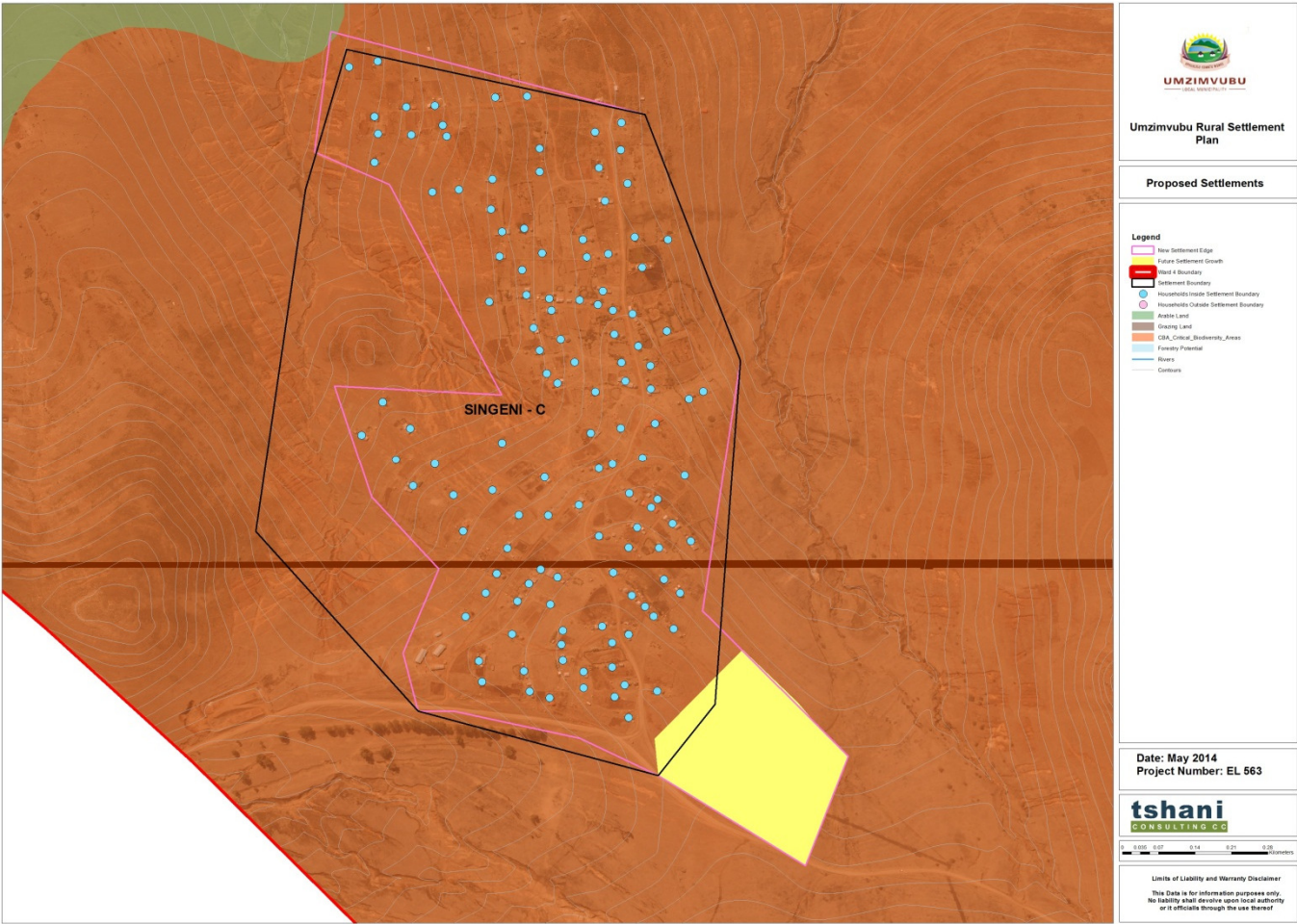
A total area of approximately *0.7 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Betshwana D	1 100	0.4%	87	1 187	250	0.28%	14	264	500m <sup>2</sup>	0.7Ha (14 sites)



E5.4.5 Singeni C

In terms of the projection figures calculated over a 20-year period, an *additional eight (8) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth.

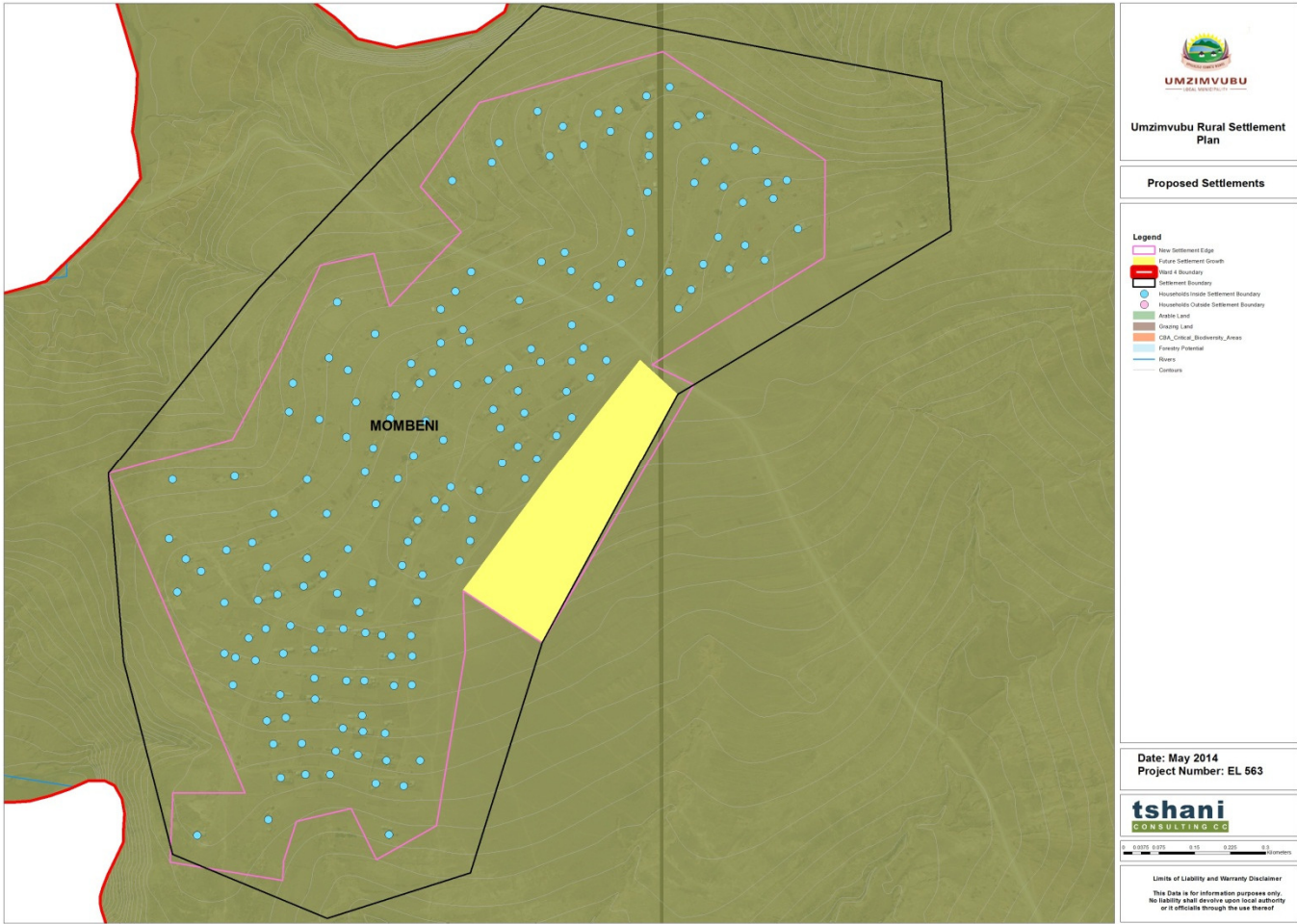


A total area of approximately *0.4 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Singeni C	669	0.4%	53	722	152	0.28%	8	160	500m <sup>2</sup>	0.4Ha (8 sites)

E5.4.6 Mombeni

In terms of the projection figures calculated over a 20-year period, an *additional nine (9) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. It is evident that the settlement expansion area can be accommodated within the existing settlement boundaries.



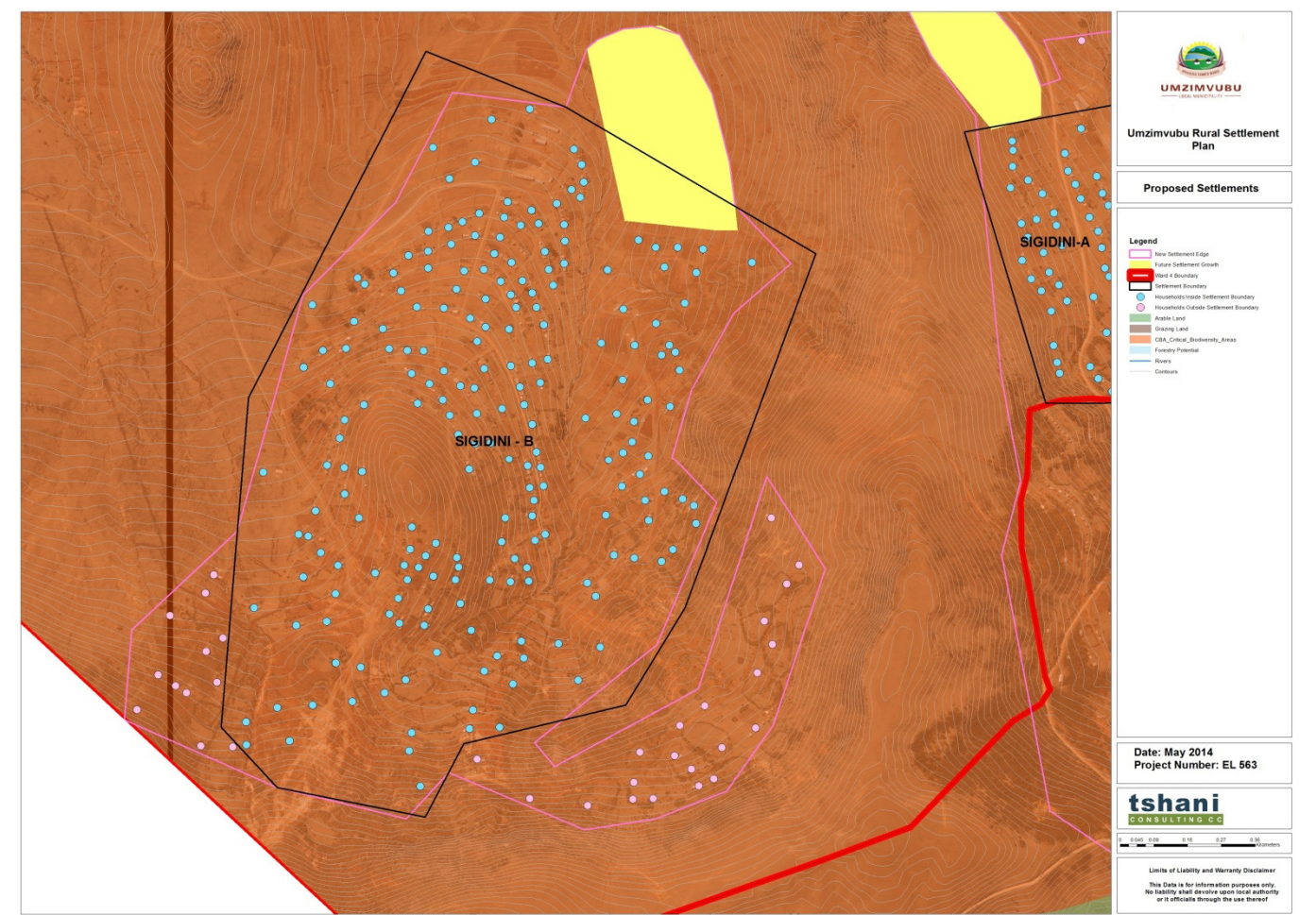
A total area of approximately *0.45 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Mombeni	722	0.4%	57	779	164	0.28%	9	173	500m <sup>2</sup>	0.45Ha (9 sites)



E5.4.7 Sigidini B

In terms of the projection figures calculated over a 20-year period, an *additional thirteen (13) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



A total area of approximately *0.65 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

Settlement Name	Existing Population Estimate at 2014	Projected Population Growth Rate % of 0.4% per annum	Projected Growth of the Number of Persons per Village (20 Year Period)	Total of Existing and Projected Population by End of 2044	Existing Number of Households Estimate at 2014	Projected Household Growth Rate % of 0.28% per annum	Projected Growth of the Number of Households per Village (20 Year Period)	Total of Existing and Projected Number of Households by End of 2044	Minimum extent of land per household for residential	Extent of projected area and the number of sites to accommodate the additional households by 2044
Sigidini B	1 052	0.4%	83	1 135	239	0.28%	13	252	500m <sup>2</sup>	0.65Ha (13 sites)

E5.4.8 Sigidini A

In terms of the projection figures calculated over a 20-year period, an *additional five (5) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



A total area of approximately *0.25 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

Settlement Name	Existing Population Estimate at 2014	Projected Population Growth Rate % of 0.4% per annum	Projected Growth of the Number of Persons per Village (20 Year Period)	Total of Existing and Projected Population by End of 2044	Existing Number of Households Estimate at 2014	Projected Household Growth Rate % of 0.28% per annum	Projected Growth of the Number of Households per Village (20 Year Period)	Total of Existing and Projected Number of Households by End of 2044	Minimum extent of land per household for residential	Extent of projected area and the number of sites to accommodate the additional households by 2044
Sigidini A	422	0.4%	33	455	96	0.28%	5	101	500m <sup>2</sup>	0.25Ha (5 sites)



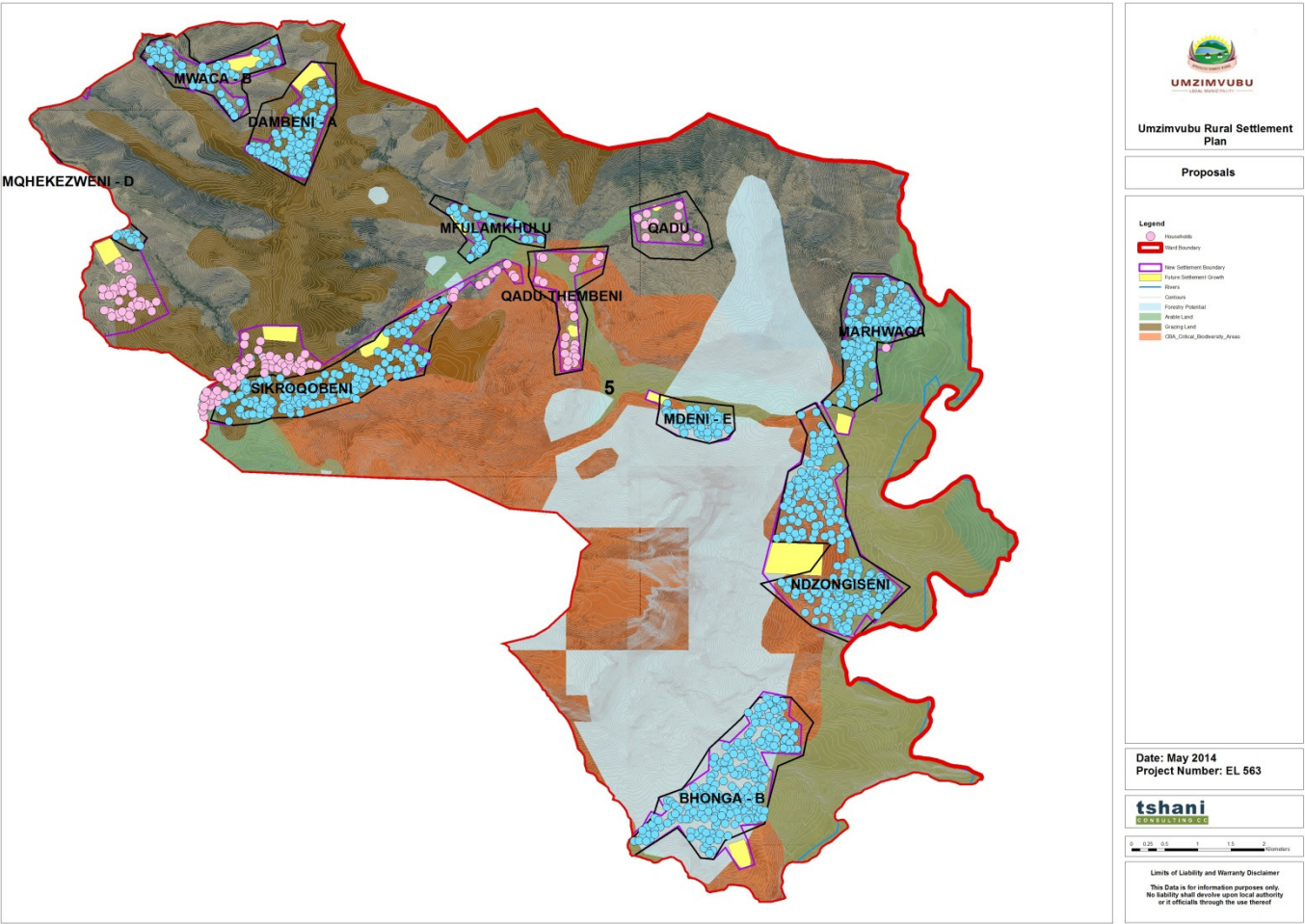
E5.5 Settlement Growth: Ward 5

As indicated in Table No. 14 above, there are currently 1 323 households located within Ward 5. At a household growth rate of 0.28% per annum, a total number of 73 households is projected over a 20 year period. This equates to approximately 4.15 Hectares in extent required to accommodate the projected households.

In some instances, these areas have been accommodated within the existing settlement boundaries. However, where the topography does not allow for development or where ‘Critical Biodiversity Areas’ exist, expansion areas have been allocated outside the settlement boundaries and the settlement boundaries have been realigned.

The plan below is indicative of the following:

- ▶ Households within settlement boundaries (blue)
- ▶ Households outside settlement boundaries (pink)
- ▶ New expansion areas to accommodate projected households (yellow)
- ▶ Arable land (green)
- ▶ Grazing land (brown)
- ▶ Critical Biodiversity Areas (orange)
- ▶ Existing settlement boundaries (black)
- ▶ New settlement boundaries (purple)



PLAN NO. 13: SETTLEMENT GROWTH: WARD 5

The table below indicates the existing population and projected population growth over a 20 year period, as well as the existing number of households, the projected growth over a 20 year period and the number of sites required to accommodated the projected growth rate.

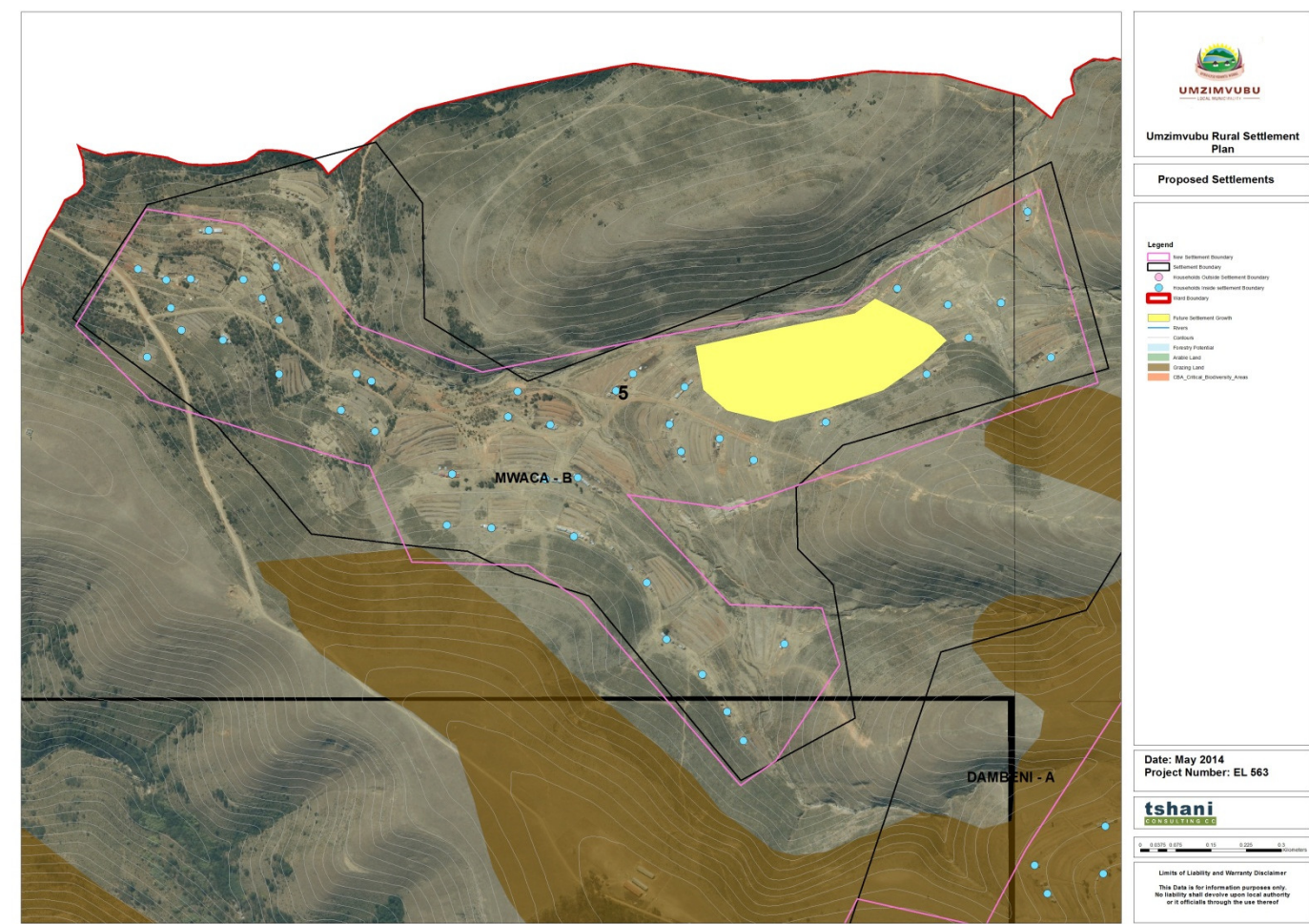
WARD	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
5	7545	0.4%	596	8141	1363	0.28%	76	1439	500m² & 1 000m²	4.3 Ha (76 sites)

The analysis for each settlement within Ward 5 is represented hereunder.



E5.5.1 Mwaca B

In terms of the projection figures calculated over a 20-year period, an *additional four (4) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. It is evident that the settlement expansion area can be accommodated within the existing settlement boundaries.

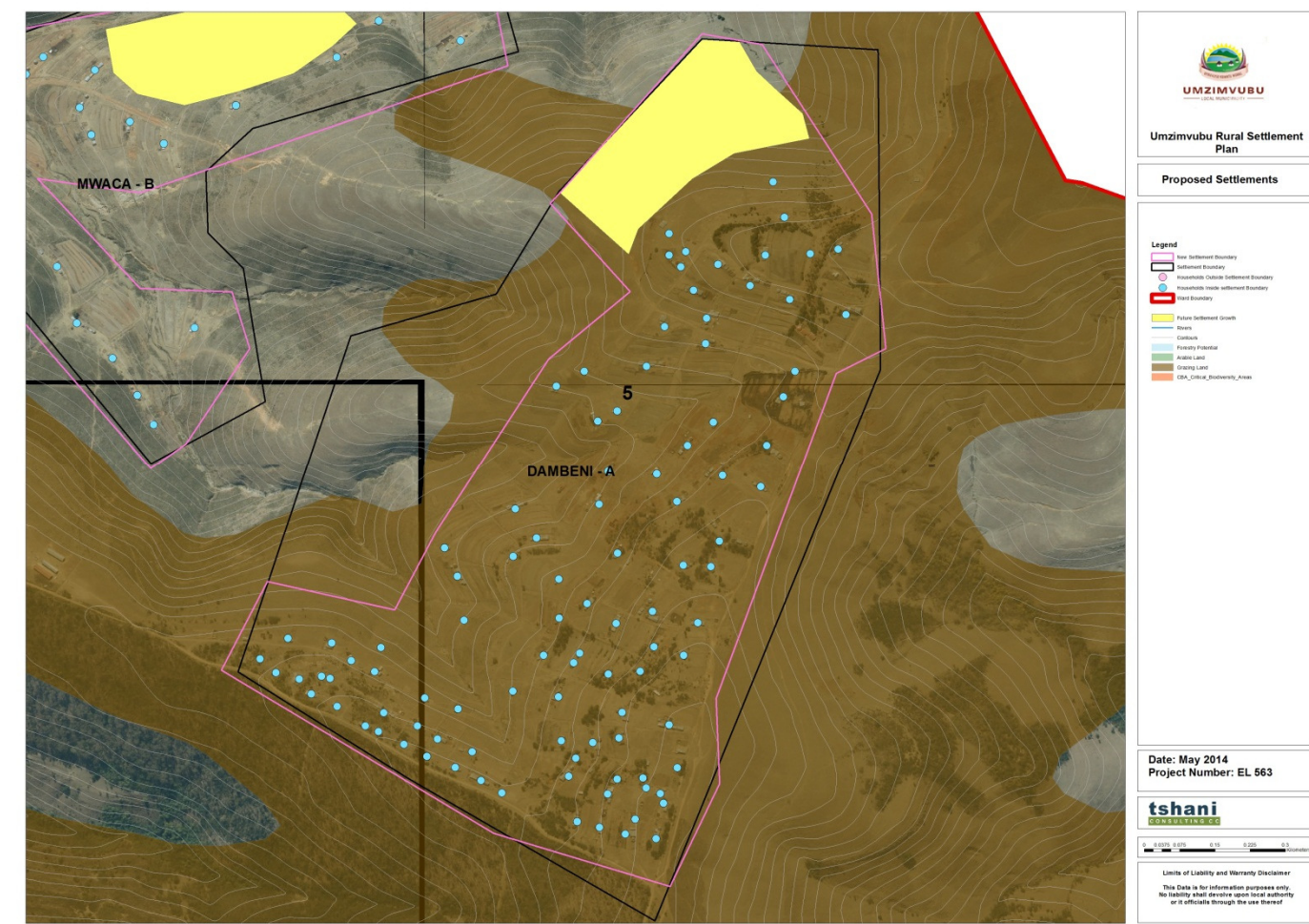


A total area of approximately *0.4 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

Settlement Name	Existing Population Estimate at 2014	Projected Population Growth Rate % of 0.4% per annum	Projected Growth of the Number of Persons per Village (20 Year Period)	Total of Existing and Projected Population by End of 2044	Existing Number of Households Estimate at 2014	Projected Household Growth Rate % of 0.28% per annum	Projected Growth of the Number of Households per Village (20 Year Period)	Total of Existing and Projected Number of Households by End of 2044	Minimum Extent of Land per Household for Residential	Extent of Projected Area and the Number of Sites to Accommodate the Additional Households by 2044
Mwaca B	340	0.4%	27	367	74	0.28%	4	78	1 000m <sup>2</sup>	0.4Ha (4 sites)

E5.5.2 Dambeni A

In terms of the projection figures calculated over a 20-year period, an *additional six (6) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. It is evident that the settlement expansion area can be accommodated within the existing settlement boundaries.



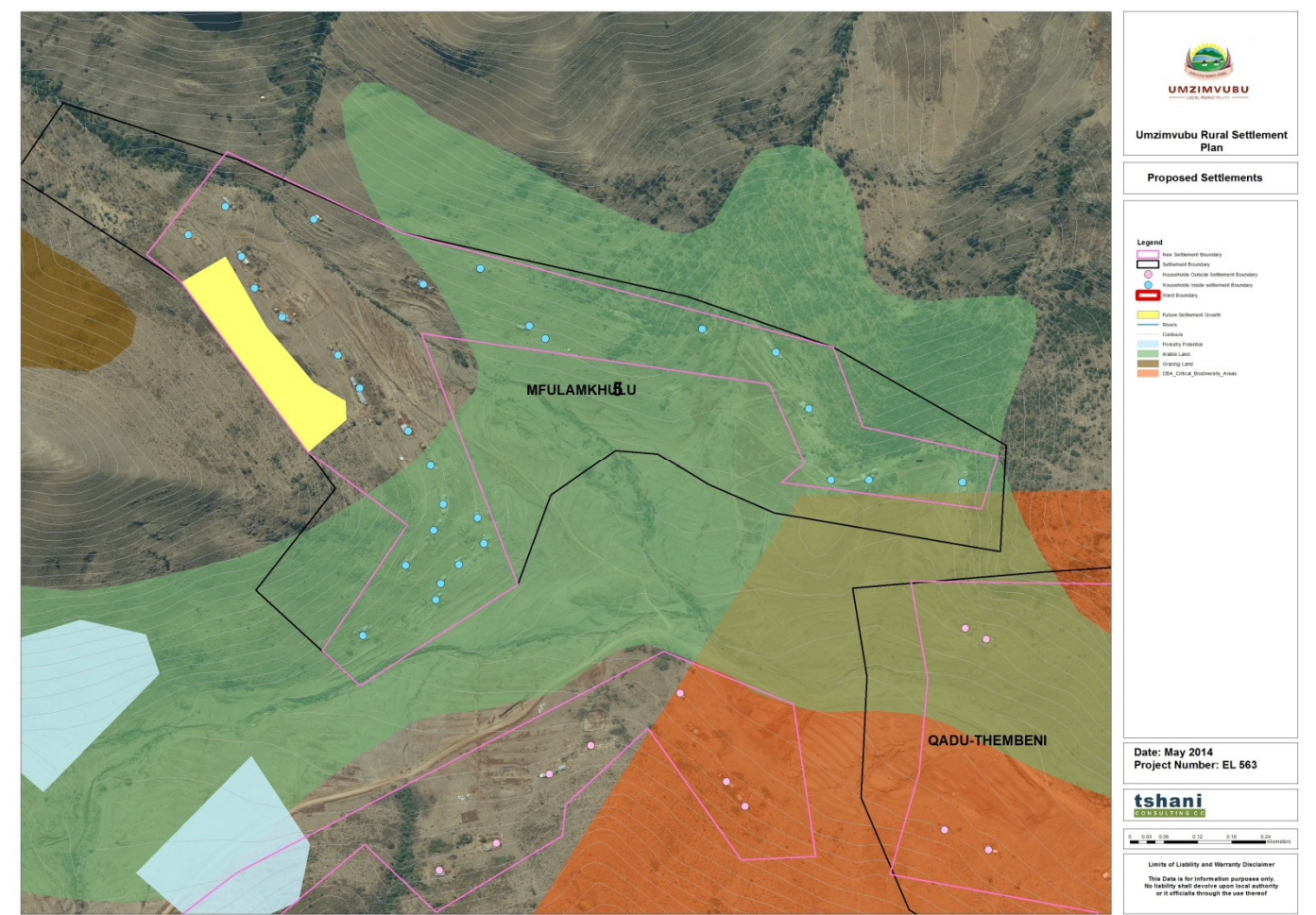
A total area of approximately *0.6 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

Settlement Name	Existing Population Estimate at 2014	Projected Population Growth Rate % of 0.4% per annum	Projected Growth of the Number of Persons per Village (20 Year Period)	Total of Existing and Projected Population by End of 2044	Existing Number of Households Estimate at 2014	Projected Household Growth Rate % of 0.28% per annum	Projected Growth of the Number of Households per Village (20 Year Period)	Total of Existing and Projected Number of Households by End of 2044	Minimum Extent of Land per Household for Residential	Extent of Projected Area and the Number of Sites to Accommodate the Additional Households by 2044
Dambeni A	465	0.4%	37	502	101	0.28%	6	107	1 000m <sup>2</sup>	0.6Ha (6 sites)



E5.5.3 Mfulamkhulu

In terms of the projection figures calculated over a 20-year period, an *additional two (2) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.

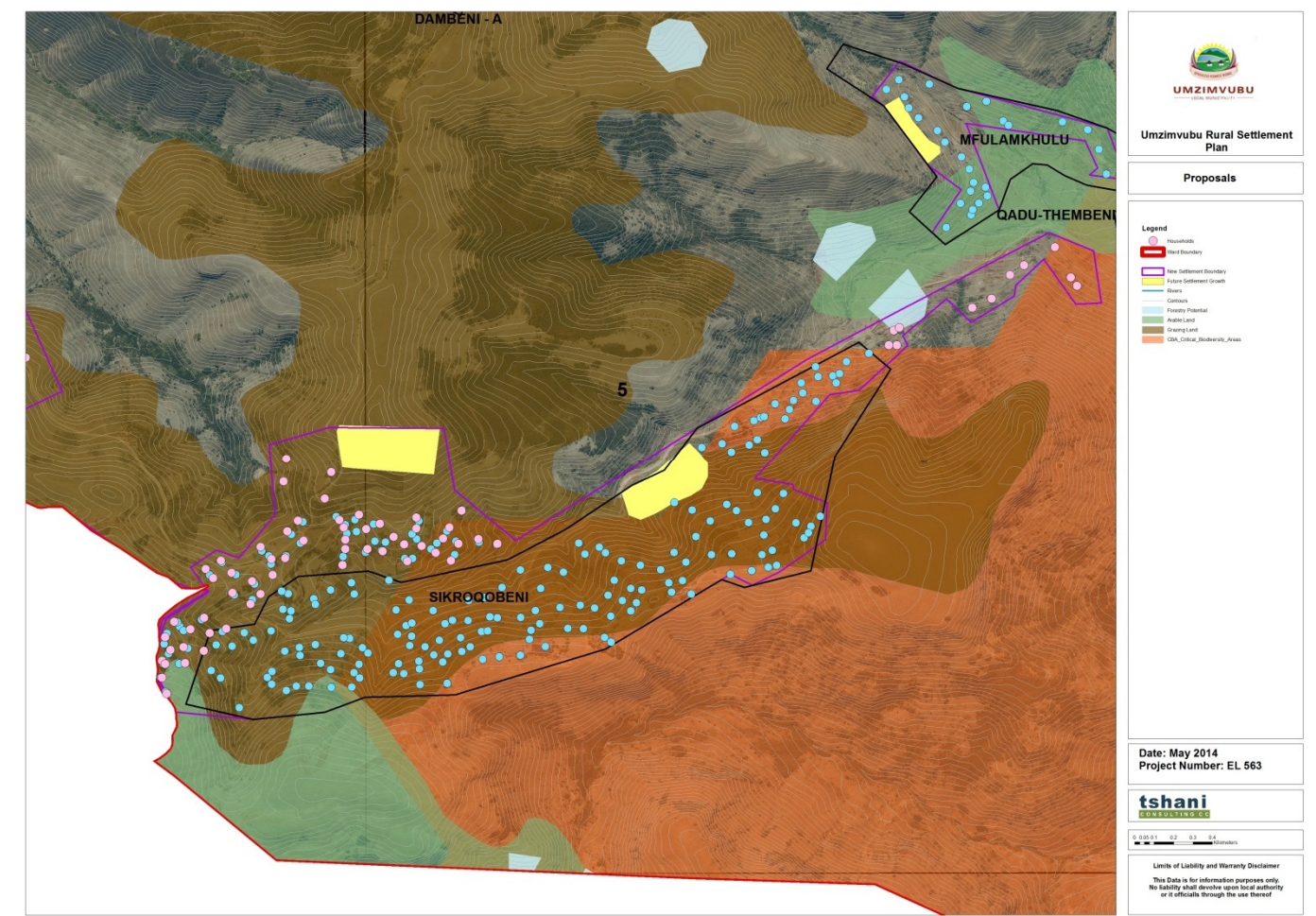


A total area of approximately *0.1 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Mfulamkhulu	166	0.4%	13	179	36	0.28%	2	38	500m²	0.1Ha (2 sites)

E5.5.4 Sikroqobeni

In terms of the projection figures calculated over a 20-year period, an *additional twelve (12) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



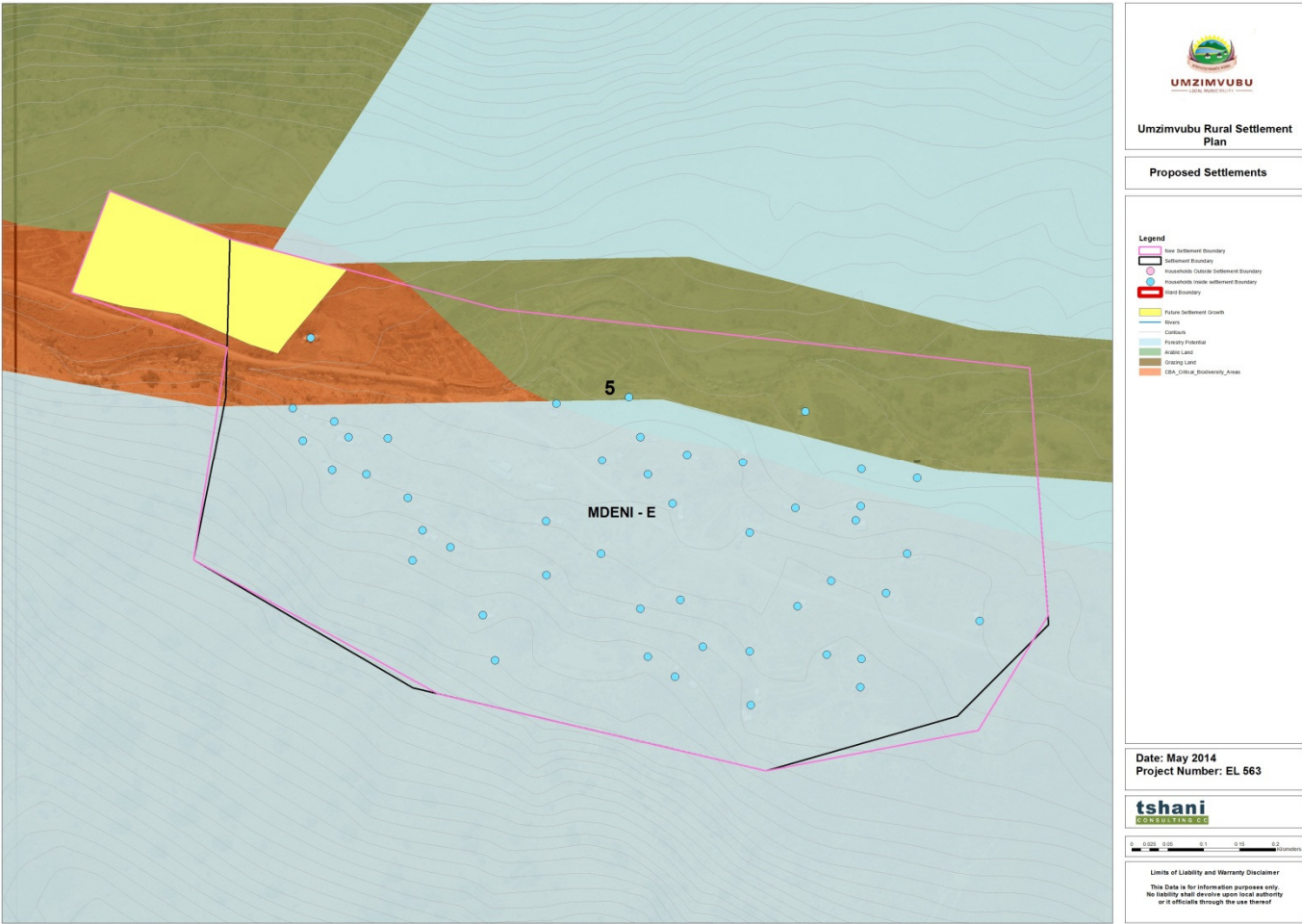
A total area of approximately *0.6 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Sikroqobeni	1 040	0.4%	82	1 122	226	0.28%	12	205	500m²	0.6Ha (12 sites)



E5.5.5 Mdeni E

In terms of the projection figures calculated over a 20-year period, an *additional four (4) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



A total area of approximately *0.2 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Mdeni E	327	0.4%	26	353	71	0.28%	4	75	500m²	0.2Ha (4 sites)

E5.5.6 Marhwaqa

In terms of the projection figures calculated over a 20-year period, an *additional eight (8) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



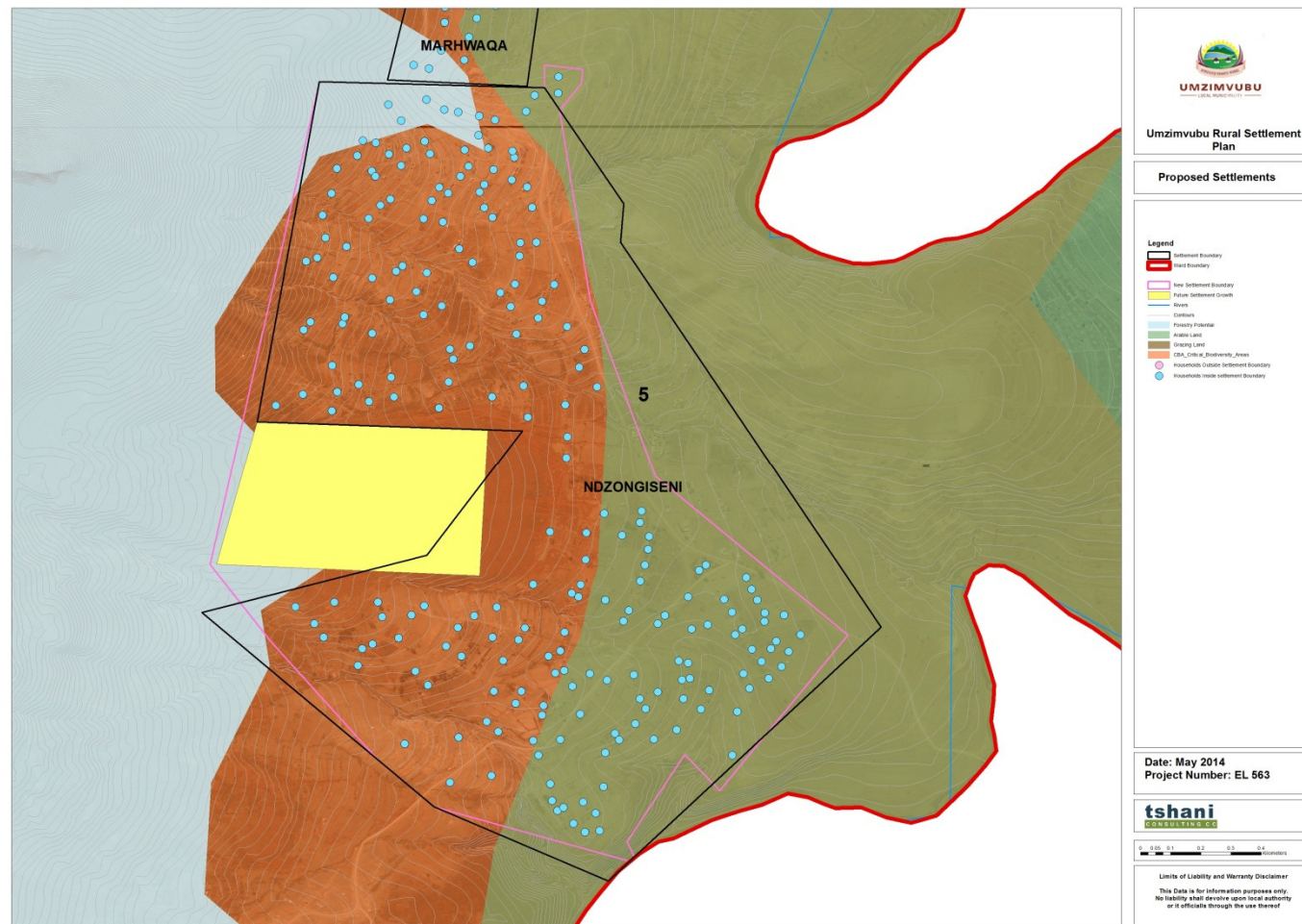
A total area of approximately *0.4 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Marhwaqa	635	0.4%	50	685	138	0.28%	8	146	500m²	0.4Ha (8 sites)



### E5.5.7 Ndzongiseni

In terms of the projection figures calculated over a 20-year period, an *additional twenty-one (21) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing 'uncontrolled expansion areas'.

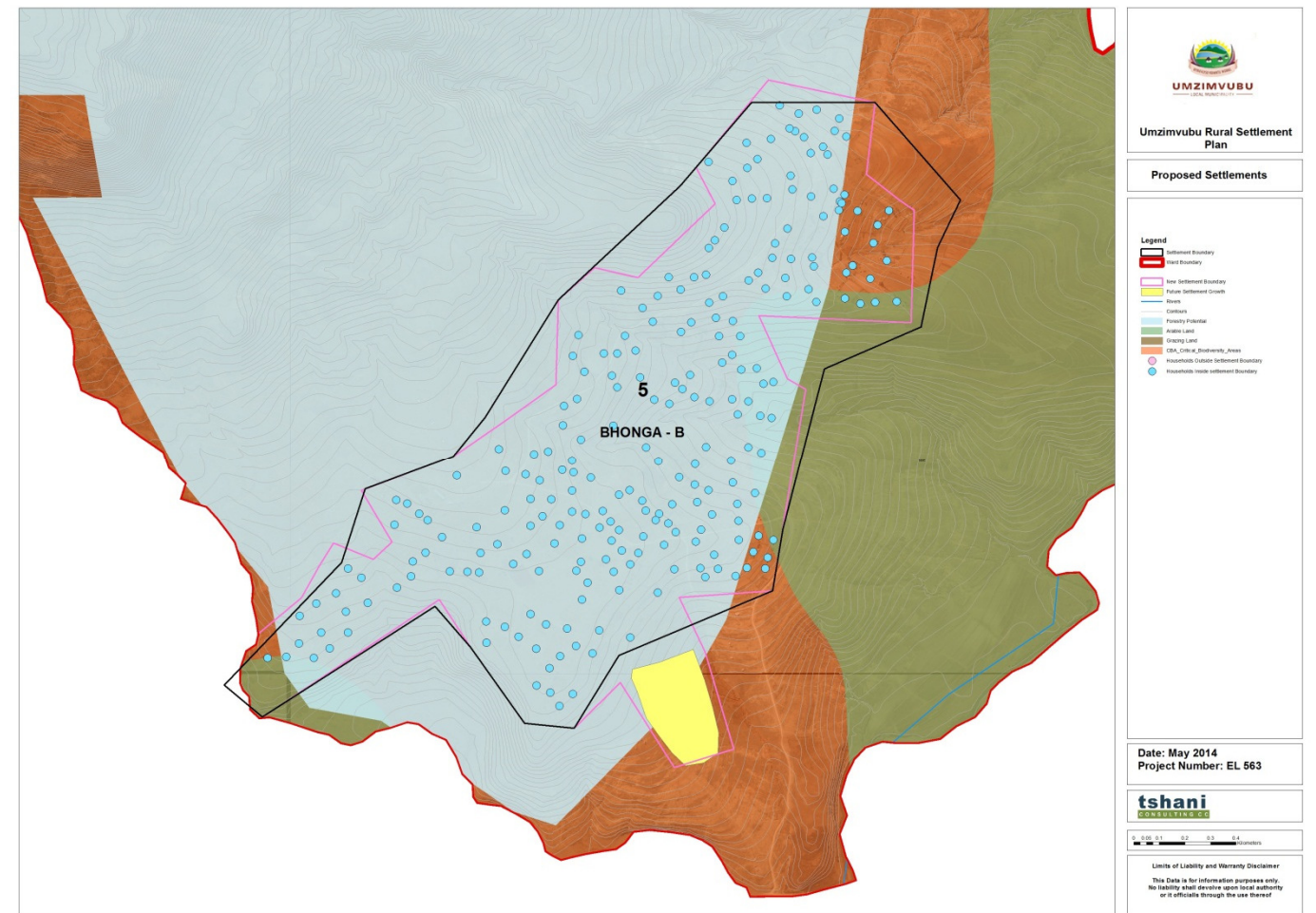


A total area of approximately *1.05 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Ndzongiseni	1 784	0.4%	140	1 924	388	0.28%	21	409	500m <sup>2</sup>	1.05Ha (21 sites)

### E5.5.8 Bhonga B

In terms of the projection figures calculated over a 20-year period, an *additional sixteen (16) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing 'uncontrolled expansion areas'.



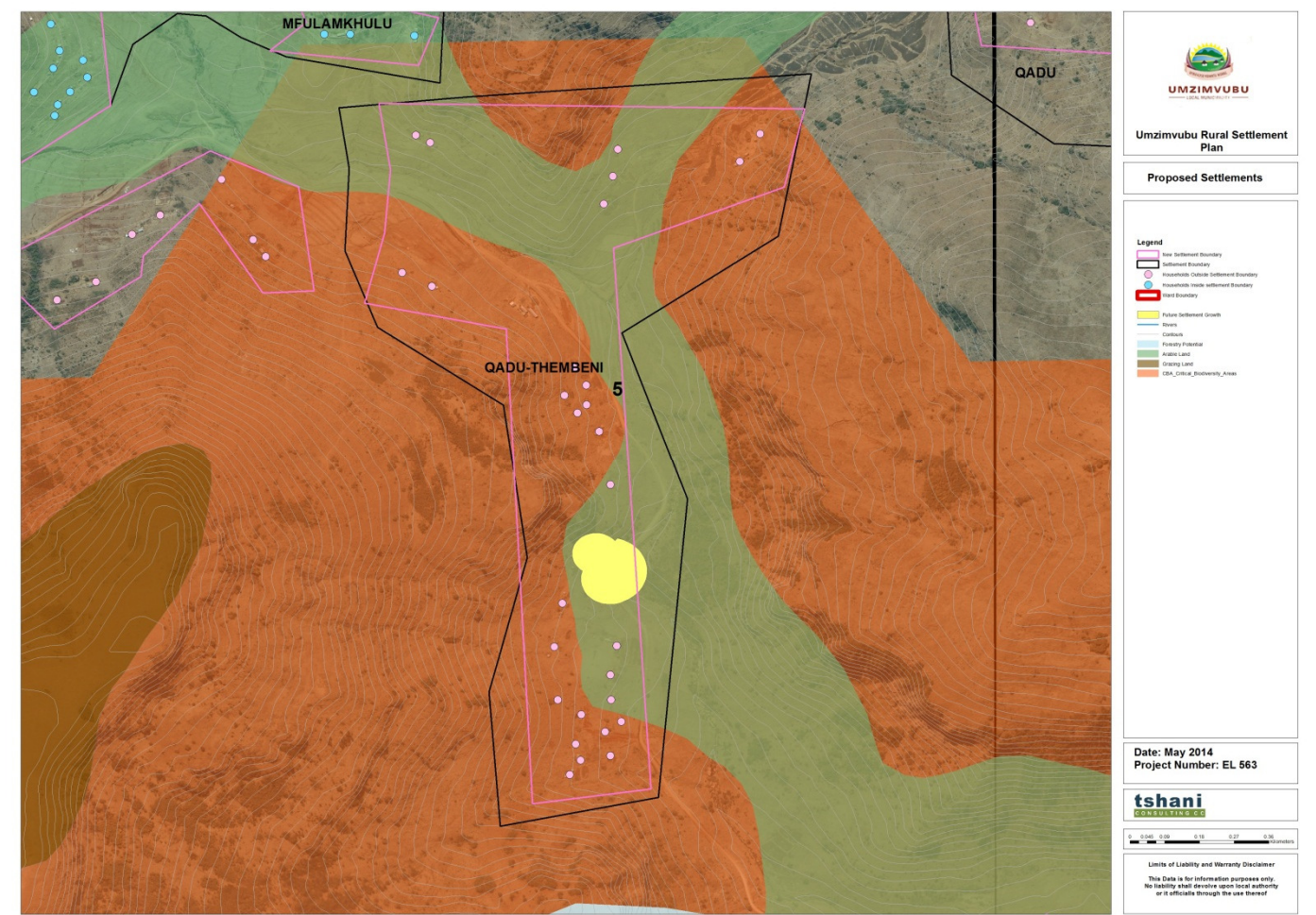
A total area of approximately *0.8 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Bhonga B	1 329	0.4%	105	1 434	289	0.28%	16	305	500m <sup>2</sup>	0.8Ha (16 sites)



E5.5.9 Qadu-Thembeni

In terms of the projection figures calculated over a 20-year period, an *additional two (2) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. It is evident that the proposed expansion area can be accommodated within the existing settlement boundary.

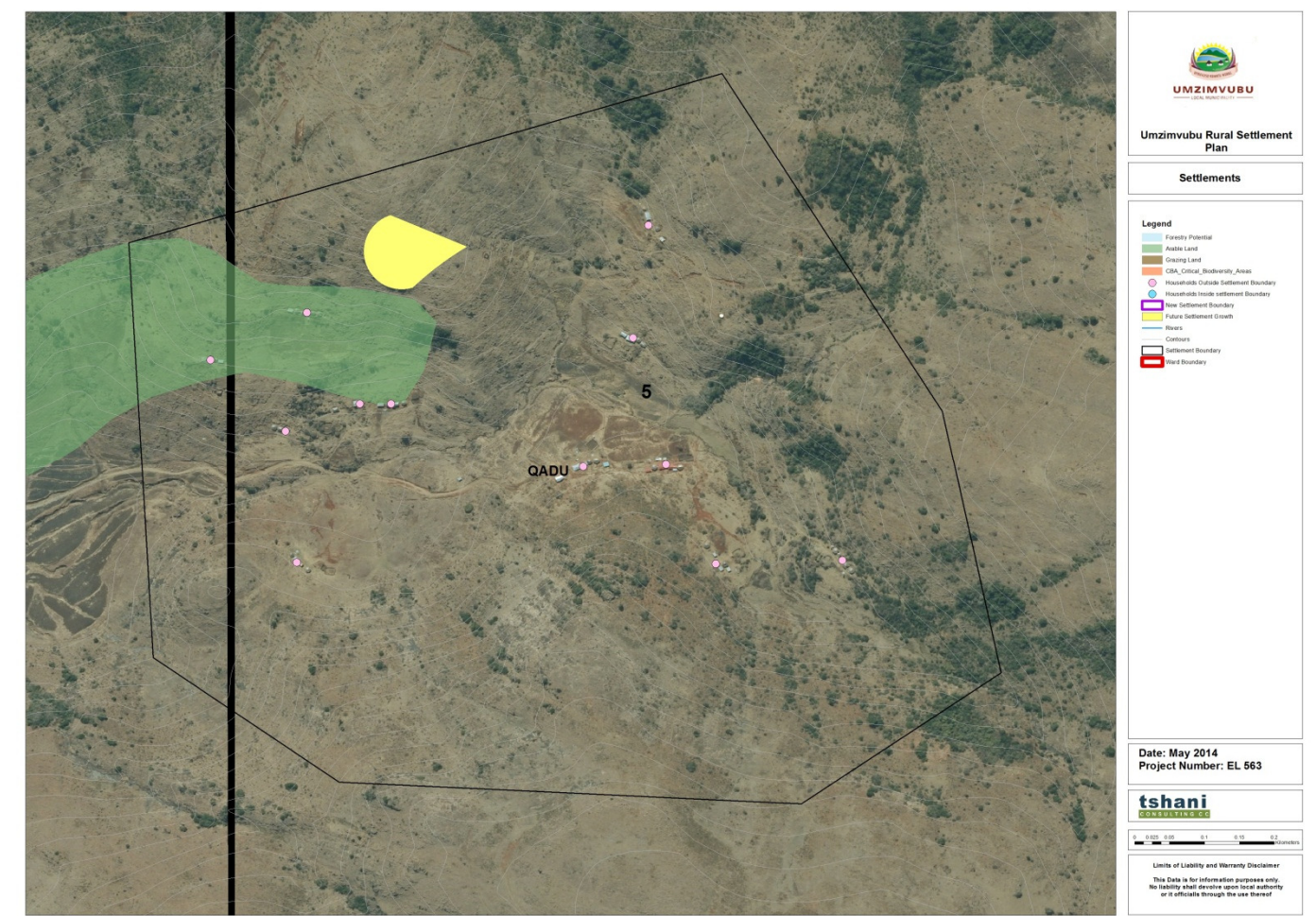


A total area of approximately *0.1 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Bhonga B	129	0.4%	10	139	28	0.28%	2	30	500m <sup>2</sup>	0.1Ha (2 sites)

E5.5.10 Qadu

In terms of the projection figures calculated over a 20-year period, an *additional one (1) site* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. It is evident that the proposed expansion area can be accommodated within the existing settlement boundary.



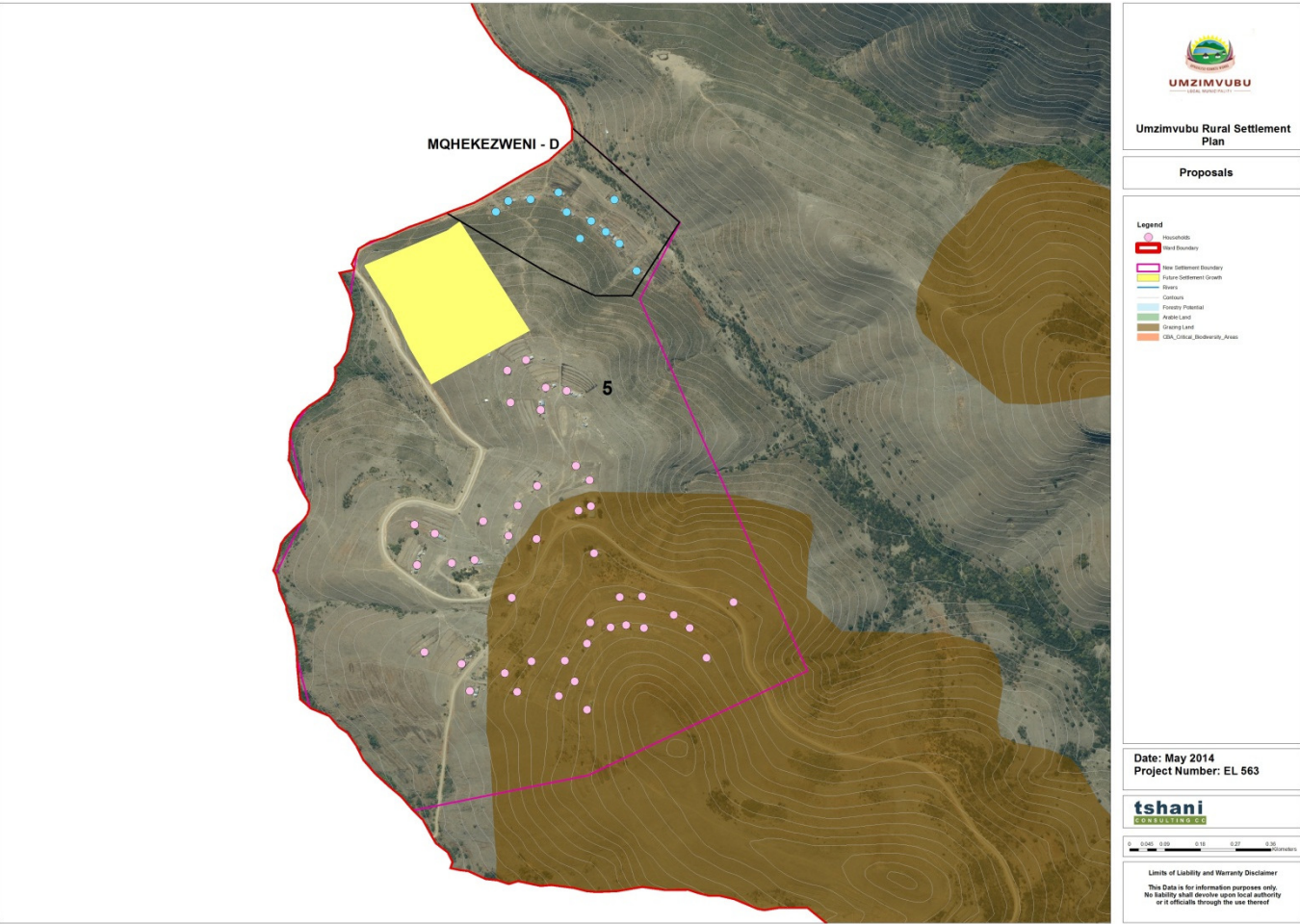
A total area of approximately *0.05 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Bhonga B	1 329	0.4%	105	1 434	12	0.28%	1	13	500m <sup>2</sup>	0.05Ha (1 site)



E5.5.11 Mqhekezweni D

In terms of the projection figures calculated over a 20-year period, an *additional three (3) site* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. It is evident that the proposed expansion area can be accommodated within the existing settlement boundary.



A total area of approximately 0.15 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Mqhekezweni D	239	0.4%	19	258	52	0.28%	3	55	500m²	0.15Ha (3 site)



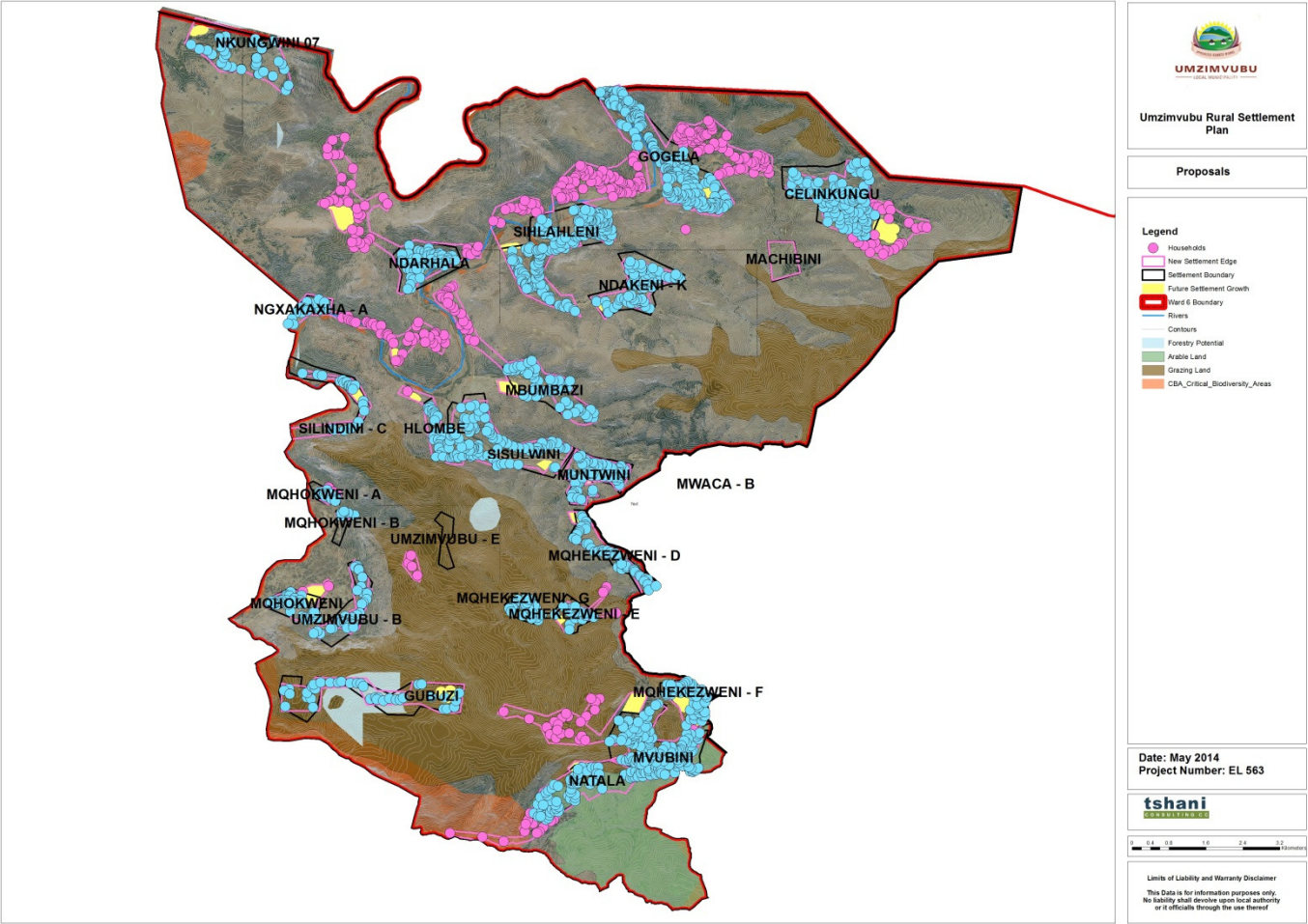
E5.6 Settlement Growth: Ward 6

As indicated in Table No. 14 above, there are currently 1 289 households located within Ward 6. At a household growth rate of 0.28% per annum, a total number of 69 households is projected over a 20 year period. This equates to approximately 4.0 Hectares in extent required to accommodate the projected households.

In some instances, these areas have been accommodated within the existing settlement boundaries. However, where the topography does not allow for development or where ‘Critical Biodiversity Areas’ exist, expansion areas have been allocated outside the settlement boundaries and the settlement boundaries have been realigned.

The plan below is indicative of the following:

- ▶ Households within settlement boundaries (blue)
- ▶ Households outside settlement boundaries (pink)
- ▶ New expansion areas to accommodate projected households (yellow)
- ▶ Arable land (green)
- ▶ Grazing land (brown)
- ▶ Critical Biodiversity Areas (orange)
- ▶ Existing settlement boundaries (black)
- ▶ New settlement boundaries (purple)



PLAN NO. 14: SETTLEMENT GROWTH: WARD 6

The table below indicates the existing population and projected population growth over a 20 year period, as well as the existing number of households, the projected growth over a 20 year period and the number of sites required to accommodate the projected growth rate.

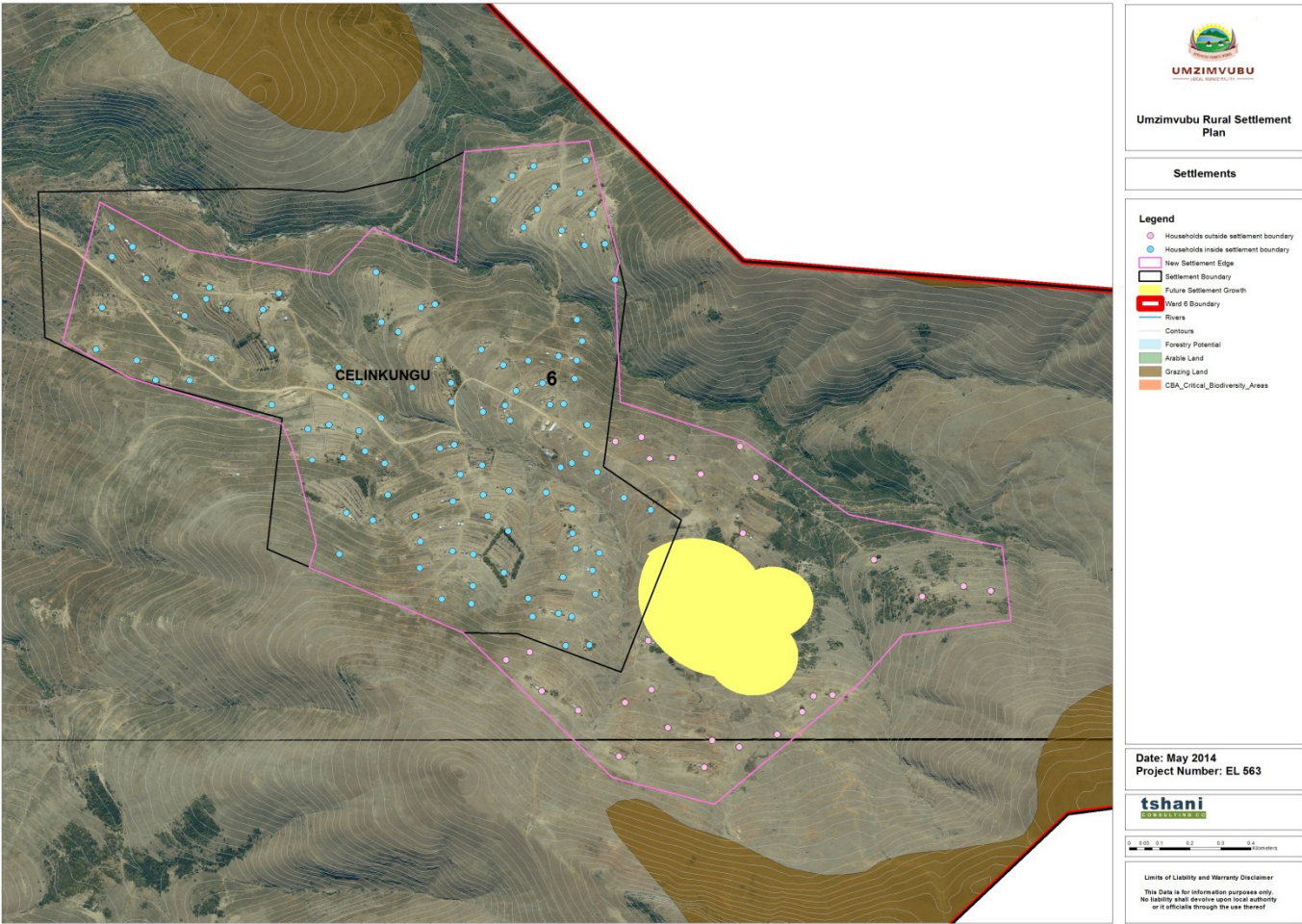
WARD	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
6	5905	0.4%	465	6370	1311	0.28%	70	1381	500m² & 1 000m²	3.5 Ha (70 sites)

The analysis for each settlement within Ward 6 is represented hereunder.



E5.6.1 Celinkumgu

In terms of the projection figures calculated over a 20-year period, an *additional seven (7) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.

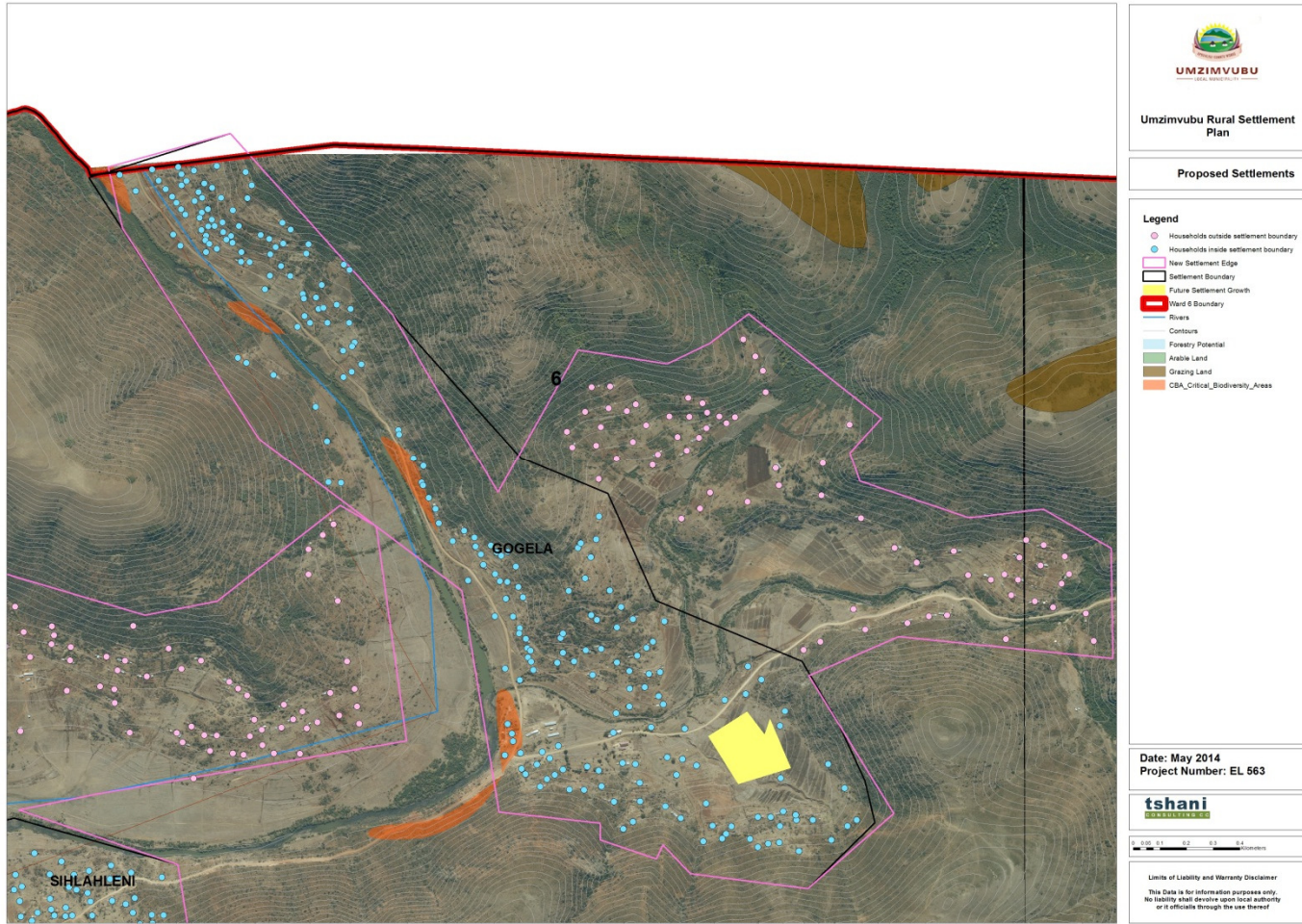


A total area of approximately 0.35 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Celinkumgu	563	0.4%	44	607	125	0.28%	7	132	500m <sup>2</sup>	0.35Ha (7 sites)

E5.6.2 Gogela

In terms of the projection figures calculated over a 20-year period, an *additional ten (10) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



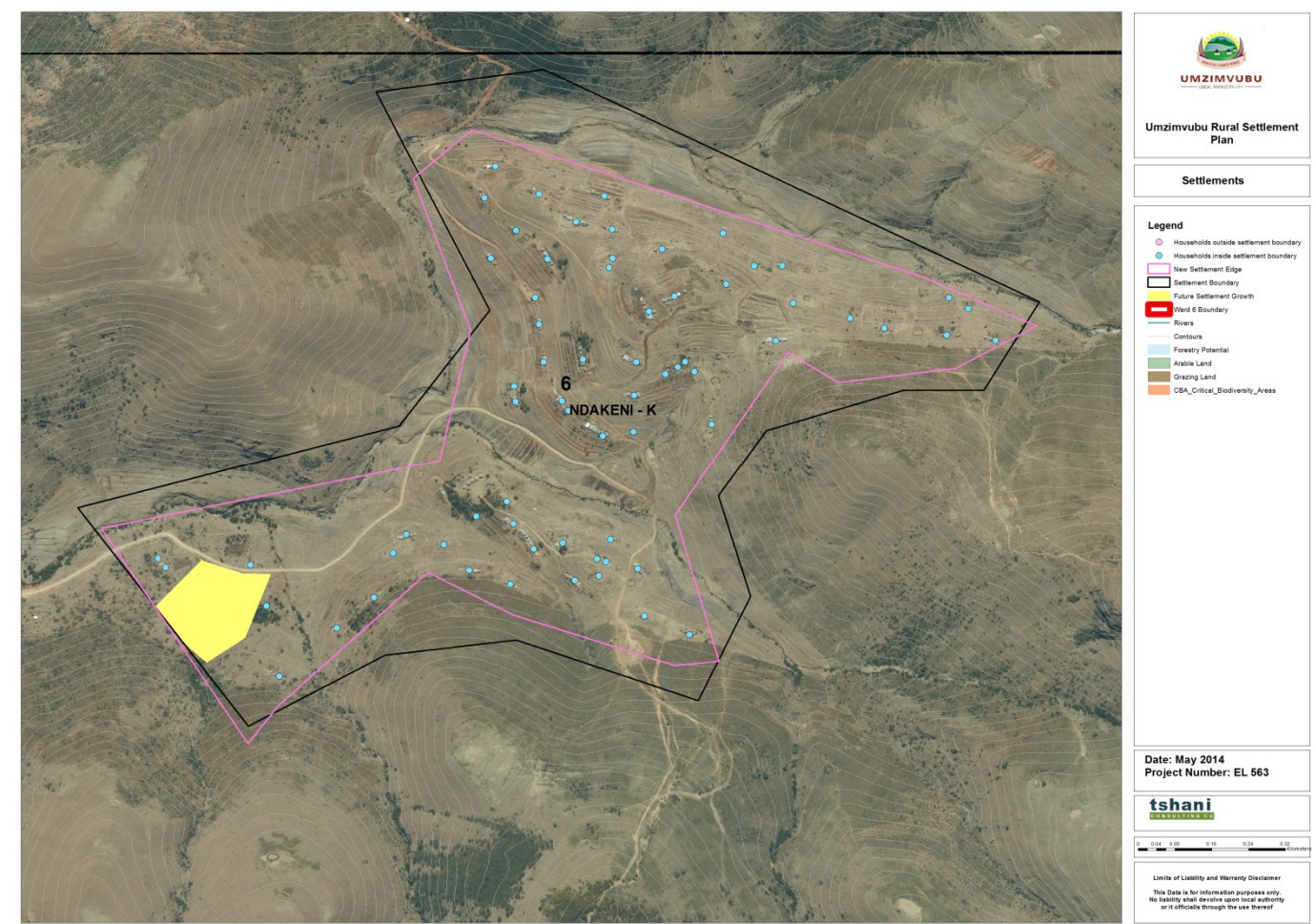
A total area of approximately 0.5 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Gogela	846	0.4%	67	913	188	0.28%	10	198	500m <sup>2</sup>	0.5Ha (10 sites)



E5.6.3 Ndakeni K

In terms of the projection figures calculated over a 20-year period, an *additional three (3) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. It is evident that the settlement expansion area can be accommodated within the existing settlement boundaries.

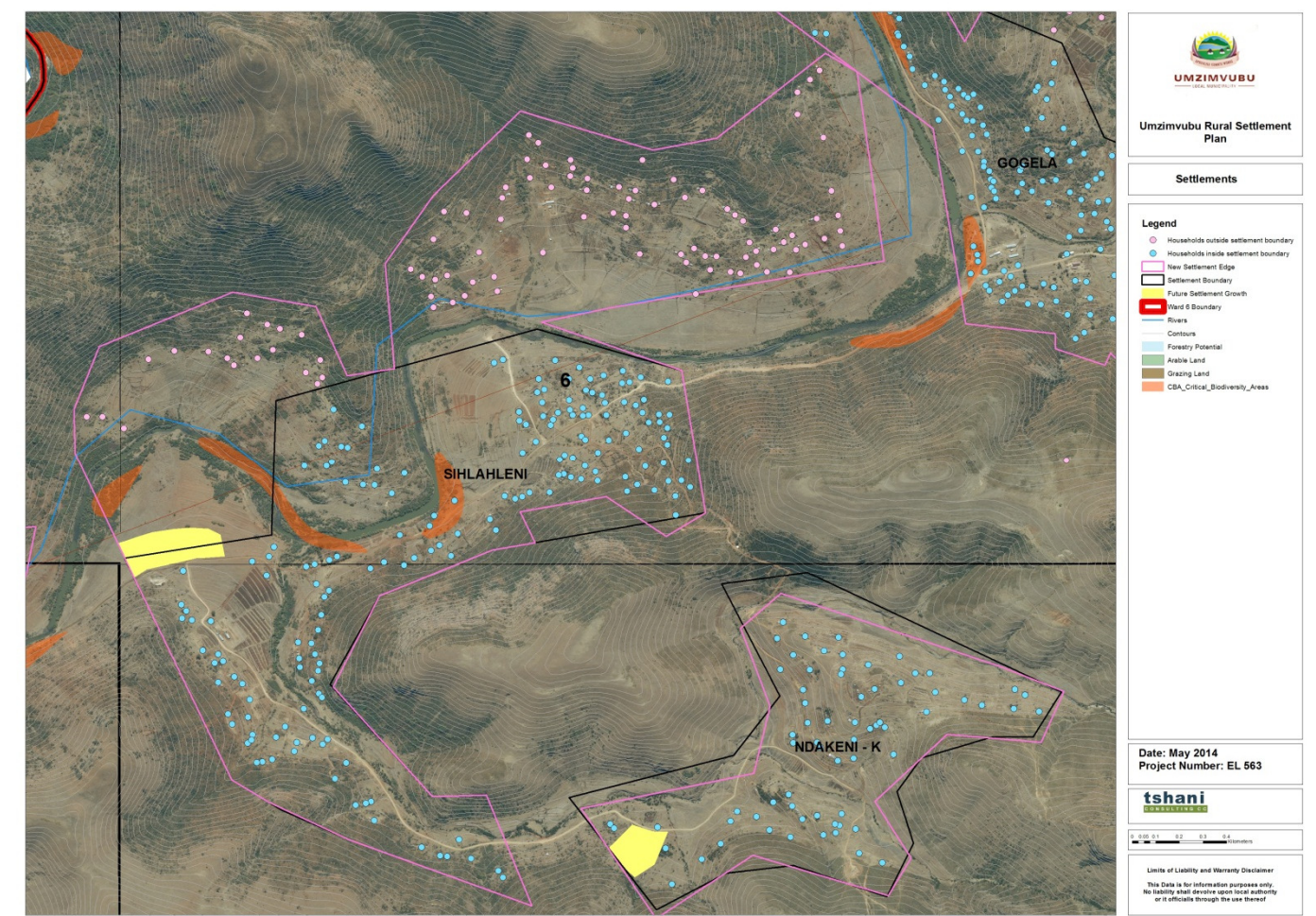


A total area of approximately *0.15 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

Settlement Name	Existing Population Estimate at 2014	Projected Population Growth Rate % of 0.4% per annum	Projected Growth of the Number of Persons per Village (20 Year Period)	Total of Existing and Projected Population by End of 2044	Existing Number of Households Estimate at 2014	Projected Household Growth Rate % of 0.28% per annum	Projected Growth of the Number of Households per Village (20 Year Period)	Total of Existing and Projected Number of Households by End of 2044	Minimum Extent of Land per Household for Residential	Extent of Projected Area and the Number of Sites to Accommodate the Additional Households by 2044
Ndakeni K	270	0.4%	21	291	60	0.28%	3	63	500m <sup>2</sup>	0.15Ha (3 sites)

E5.6.4 Sihlahleni

In terms of the projection figures calculated over a 20-year period, an *additional eight (8) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



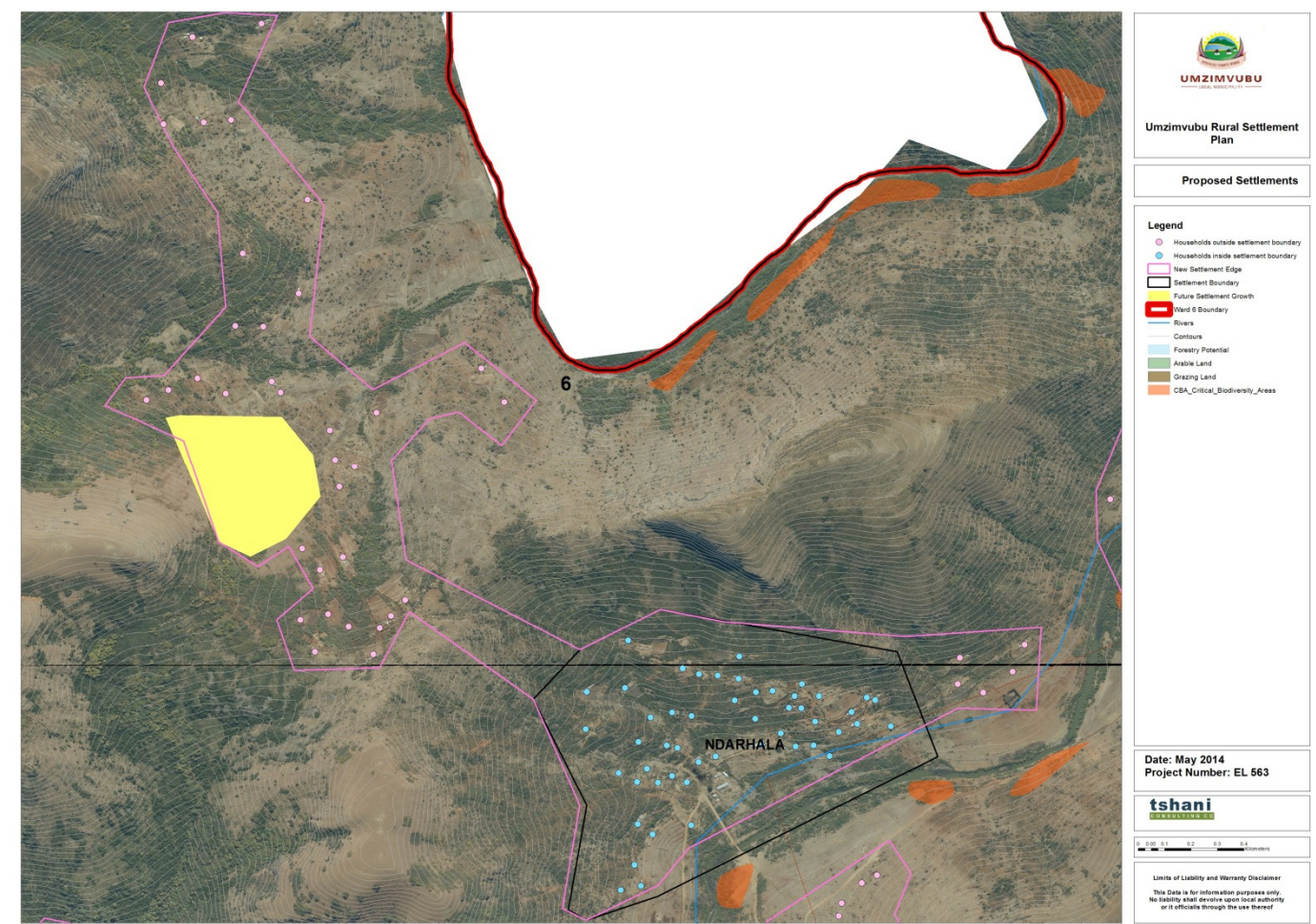
A total area of approximately *0.4 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

Settlement Name	Existing Population Estimate at 2014	Projected Population Growth Rate % of 0.4% per annum	Projected Growth of the Number of Persons per Village (20 Year Period)	Total of Existing and Projected Population by End of 2044	Existing Number of Households Estimate at 2014	Projected Household Growth Rate % of 0.28% per annum	Projected Growth of the Number of Households per Village (20 Year Period)	Total of Existing and Projected Number of Households by End of 2044	Minimum Extent of Land per Household for Residential	Extent of Projected Area and the Number of Sites to Accommodate the Additional Households by 2044
Sihlahleni	635	0.4%	50	685	141	0.28%	8	149	500m <sup>2</sup>	0.4Ha (8 sites)



E5.6.5 Ndarhala

In terms of the projection figures calculated over a 20-year period, an *additional three (3) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.

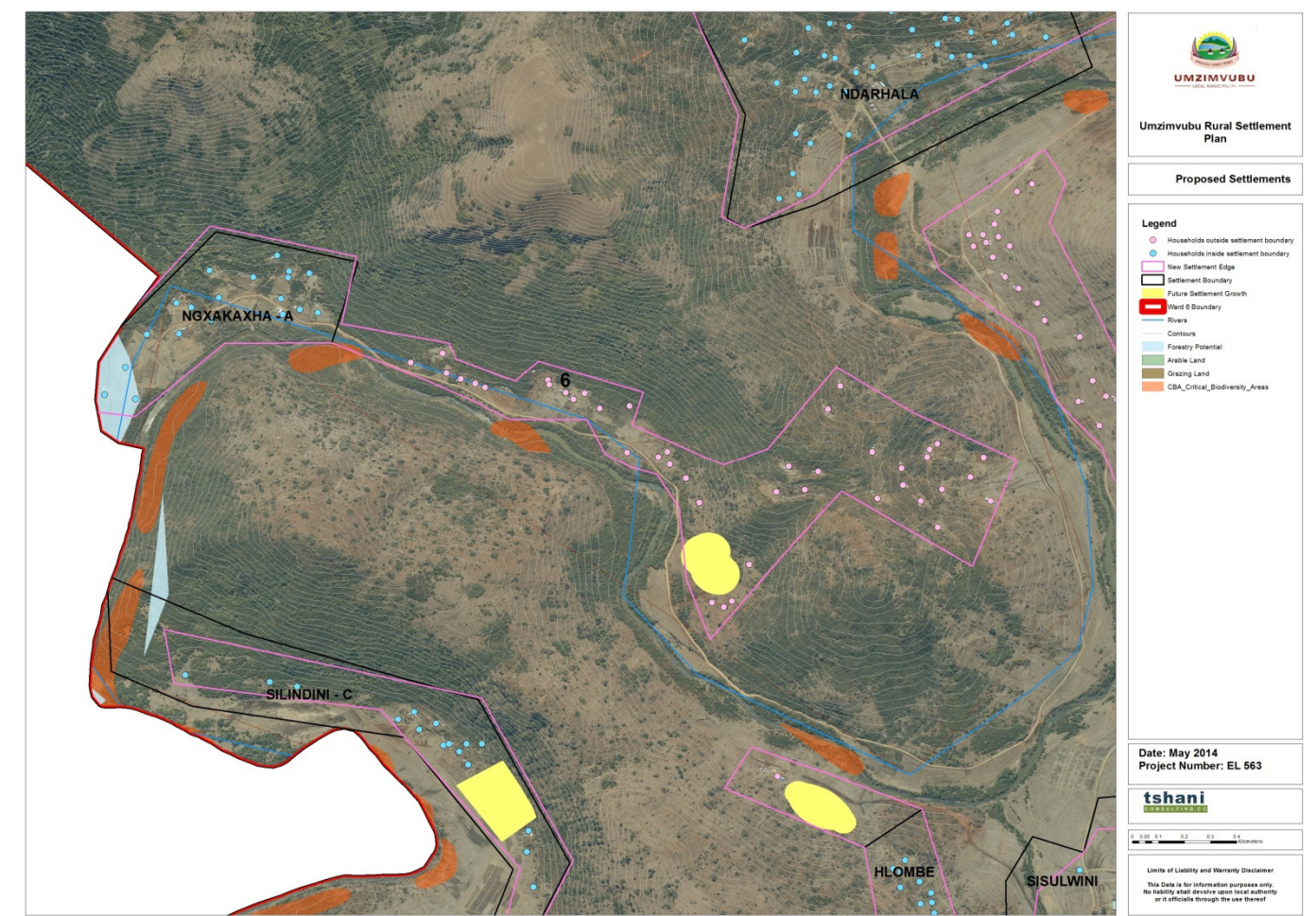


A total area of approximately *0.15 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Ndarhala	266	0.4%	21	287	59	0.28%	3	62	500m <sup>2</sup>	0.15Ha (3 sites)

E5.6.6 Ngxakaxha A

In terms of the projection figures calculated over a 20-year period, an *additional one (1) site* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



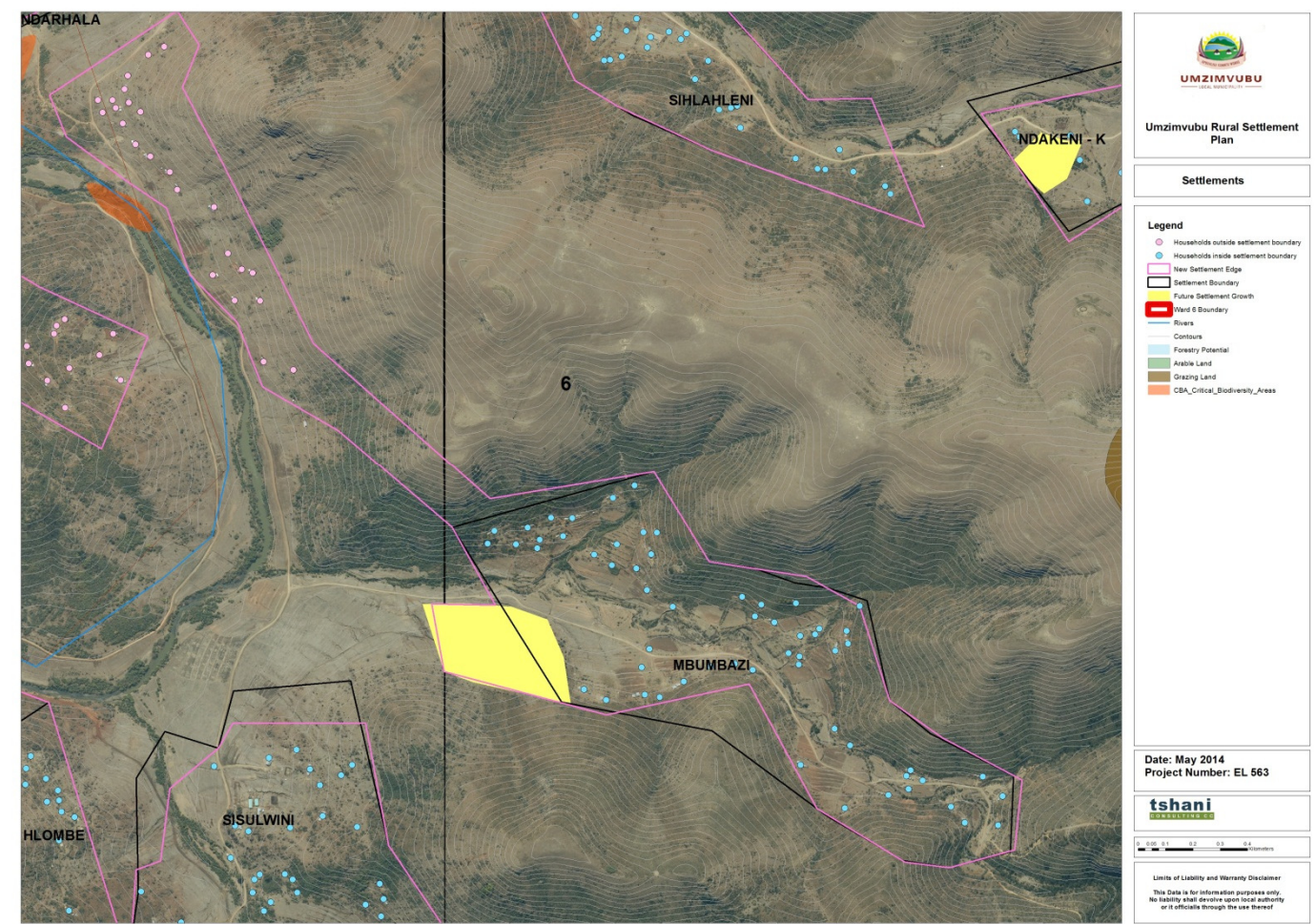
A total area of approximately *0.05 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Ngxakaxha A	104	0.4%	8	112	23	0.28%	1	24	500m <sup>2</sup>	0.05Ha (1 site)



E5.6.7 Mbumbaza

In terms of the projection figures calculated over a 20-year period, an *additional four (4) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth.



A total area of approximately 0.2 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Mbumbaza	302	0.4%	24	326	67	0.28%	4	71	500m <sup>2</sup>	0.2Ha (4 sites)

E5.6.8 Silindini C

In terms of the projection figures calculated over a 20-year period, an *additional one (1) site* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. It is evident that the settlement expansion area can be accommodated within the existing settlement boundaries.



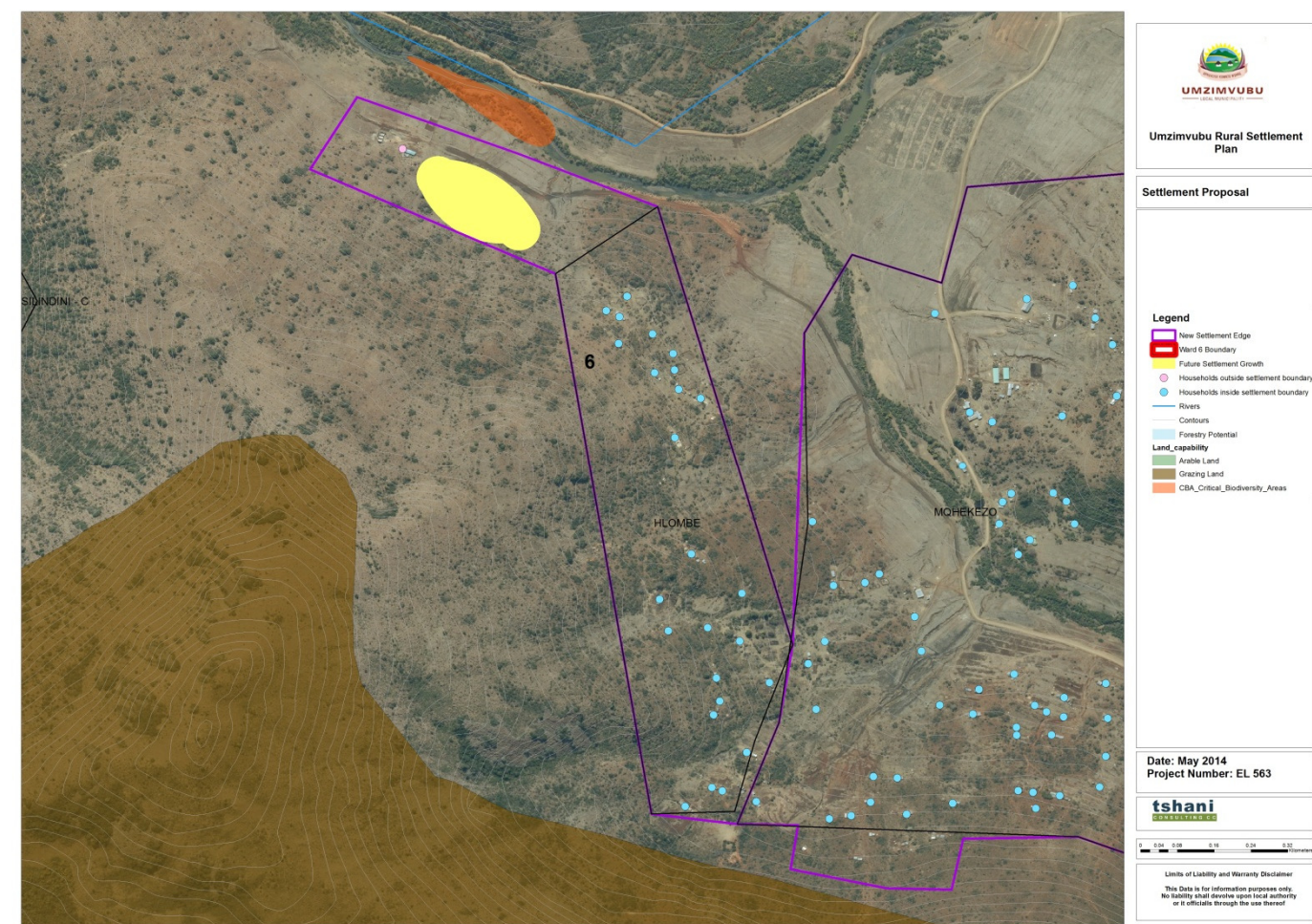
A total area of approximately 0.05 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Silindini C	99	0.4%	8	107	22	0.28%	1	23	500m <sup>2</sup>	0.05Ha (1 site)



E5.6.9 Hlombe

In terms of the projection figures calculated over a 20-year period, an *additional one (1) site* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.

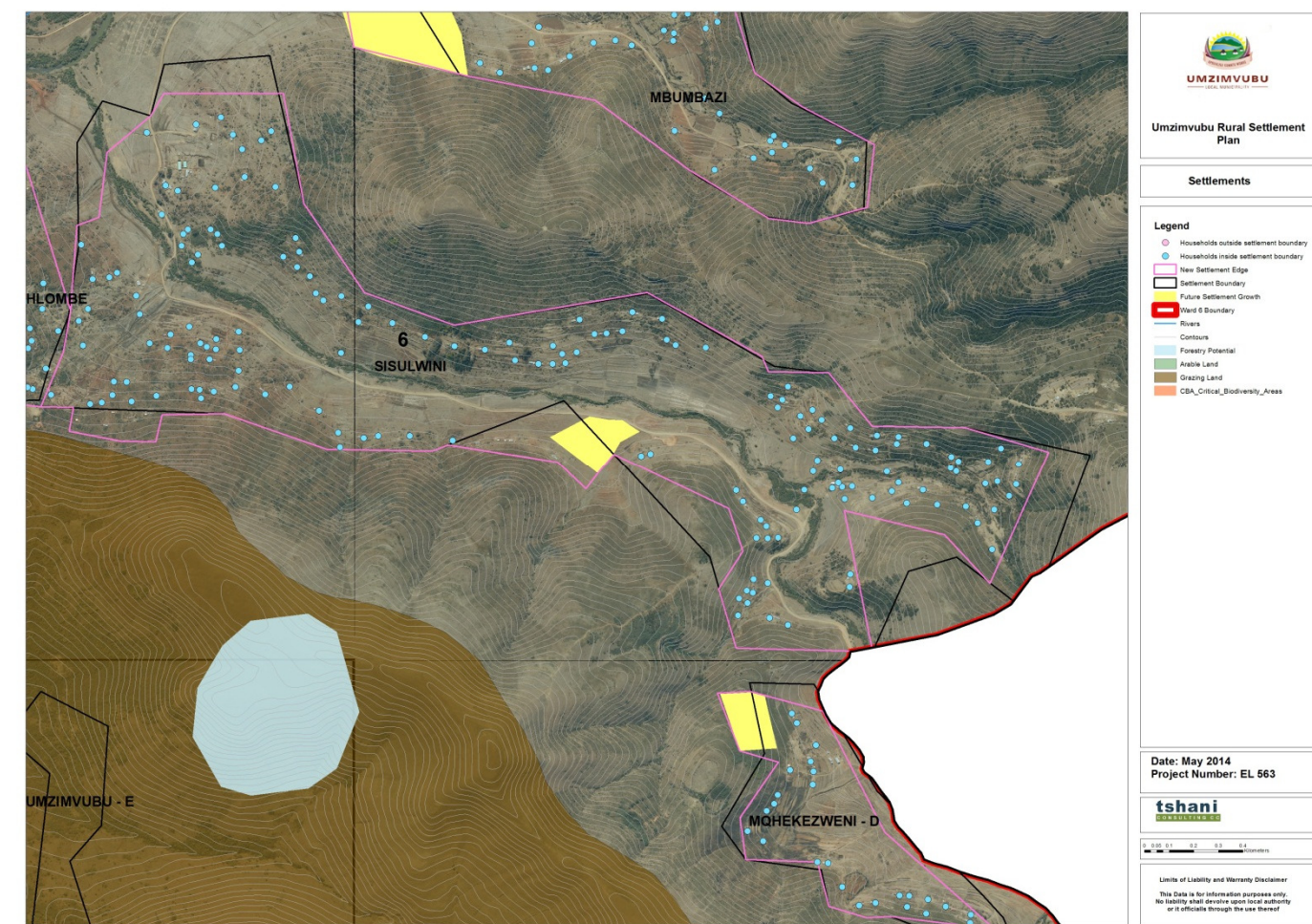


A total area of approximately 0.05 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Hlombe	117	0.4%	9	126	26	0.28%	1	27	1 000m <sup>2</sup>	0.05Ha (1 site)

E5.6.10 Sisulwini

In terms of the projection figures calculated over a 20-year period, an *additional seven (7) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



A total area of approximately 0.35 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Sisulwini	599	0.4%	47	646	133	0.28%	7	140	500m <sup>2</sup>	0.35Ha (7 sites)



E5.6.11 Mqhokweni A

In terms of the projection figures calculated over a 20-year period, an *additional one (1) site* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



A total area of approximately 0.05 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Mqhokweni A	63	0.4%	5	68	14	0.28%	1	15	500m <sup>2</sup>	0.05Ha (1 site)

E5.6.12 Mqhokweni B

In terms of the projection figures calculated over a 20-year period, an *additional one (1) site* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. It is evident that the settlement expansion area can be accommodated within the existing settlement boundaries.



A total area of approximately 0.05 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Mqhokweni B	77	0.4%	6	83	17	0.28%	1	18	500m <sup>2</sup>	0.05Ha (1 site)



E5.6.13 Mqhekezweni D

In terms of the projection figures calculated over a 20-year period, an *additional two (2) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth.



A total area of approximately *0.1 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Mqhekezweni D	194	0.4%	15	209	43	0.28%	2	45	500m <sup>2</sup>	0.1Ha (2 sites)

E5.6.14 Mqhekezweni E

In terms of the projection figures calculated over a 20-year period, an *additional one (1) site* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



A total area of approximately *0.05 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Mqhekezweni E	63	0.4%	5	68	14	0.28%	1	15	1 000m <sup>2</sup>	0.05Ha (1 site)



E5.6.15 Mqhekezweni F

In terms of the projection figures calculated over a 20-year period, an *additional two (2) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. It is evident that the settlement expansion area can be accommodated within the existing settlement boundaries.

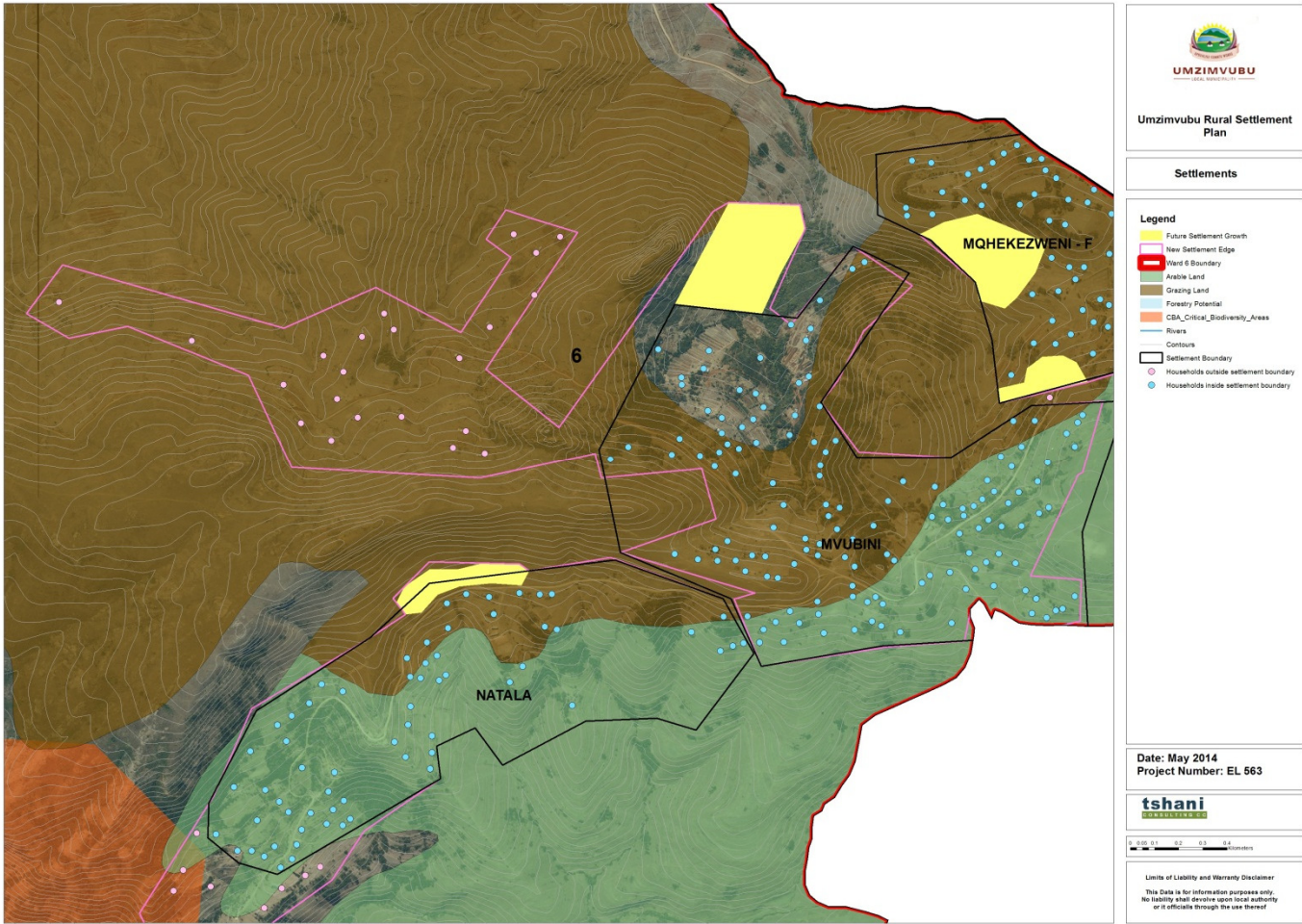


A total area of approximately *0.1 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Mqhekezweni F	203	0.4%	16	219	45	0.28%	2	47	500m <sup>2</sup>	0.1Ha (2 sites)

E5.6.16 Mvubini

In terms of the projection figures calculated over a 20-year period, an *additional seven (7) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



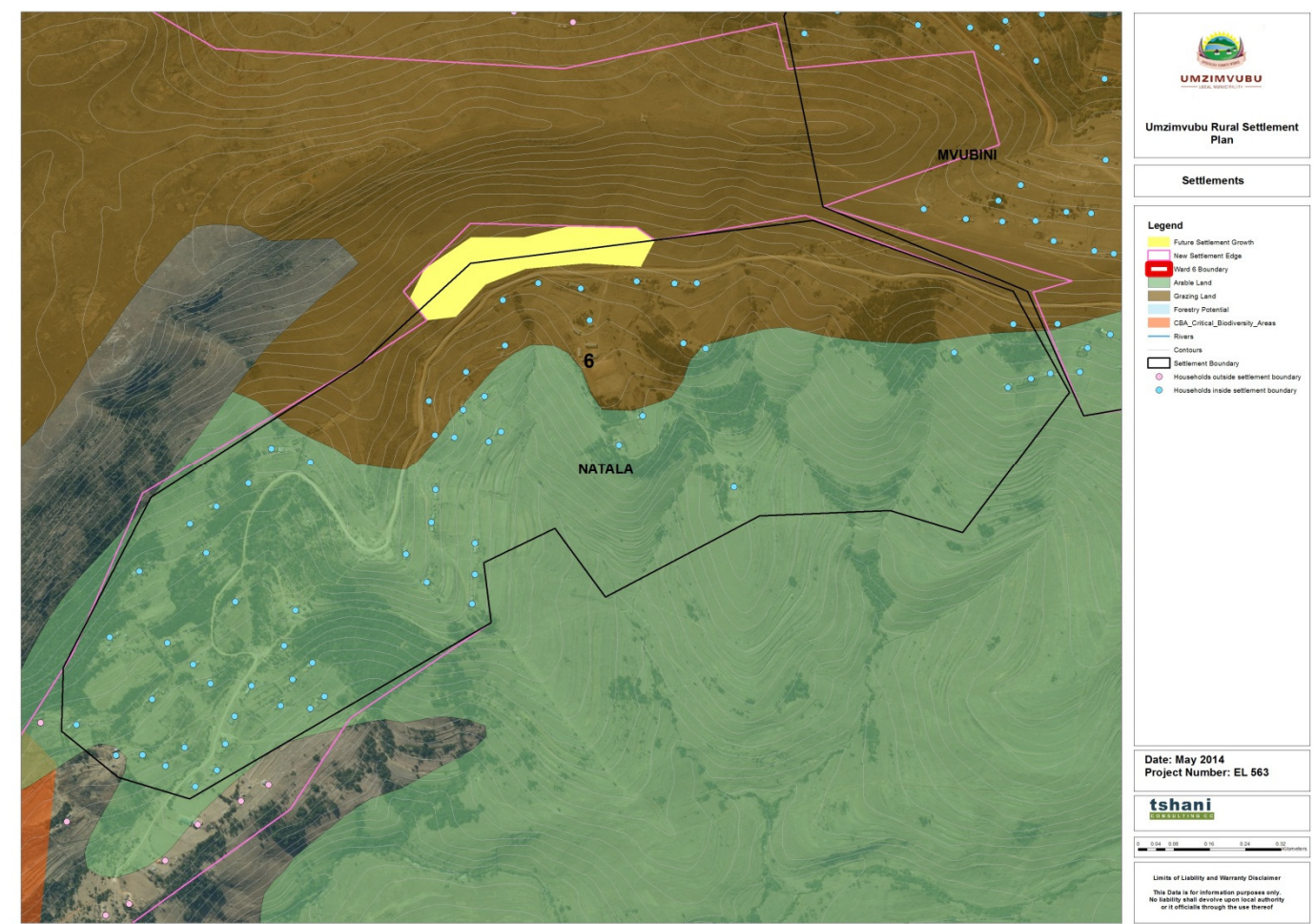
A total area of approximately *0.35 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Mvubini	554	0.4%	44	598	123	0.28%	7	130	1 000m <sup>2</sup>	0.35Ha (7 sites)



E5.6.17 Natala

In terms of the projection figures calculated over a 20-year period, an *additional three (3) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.

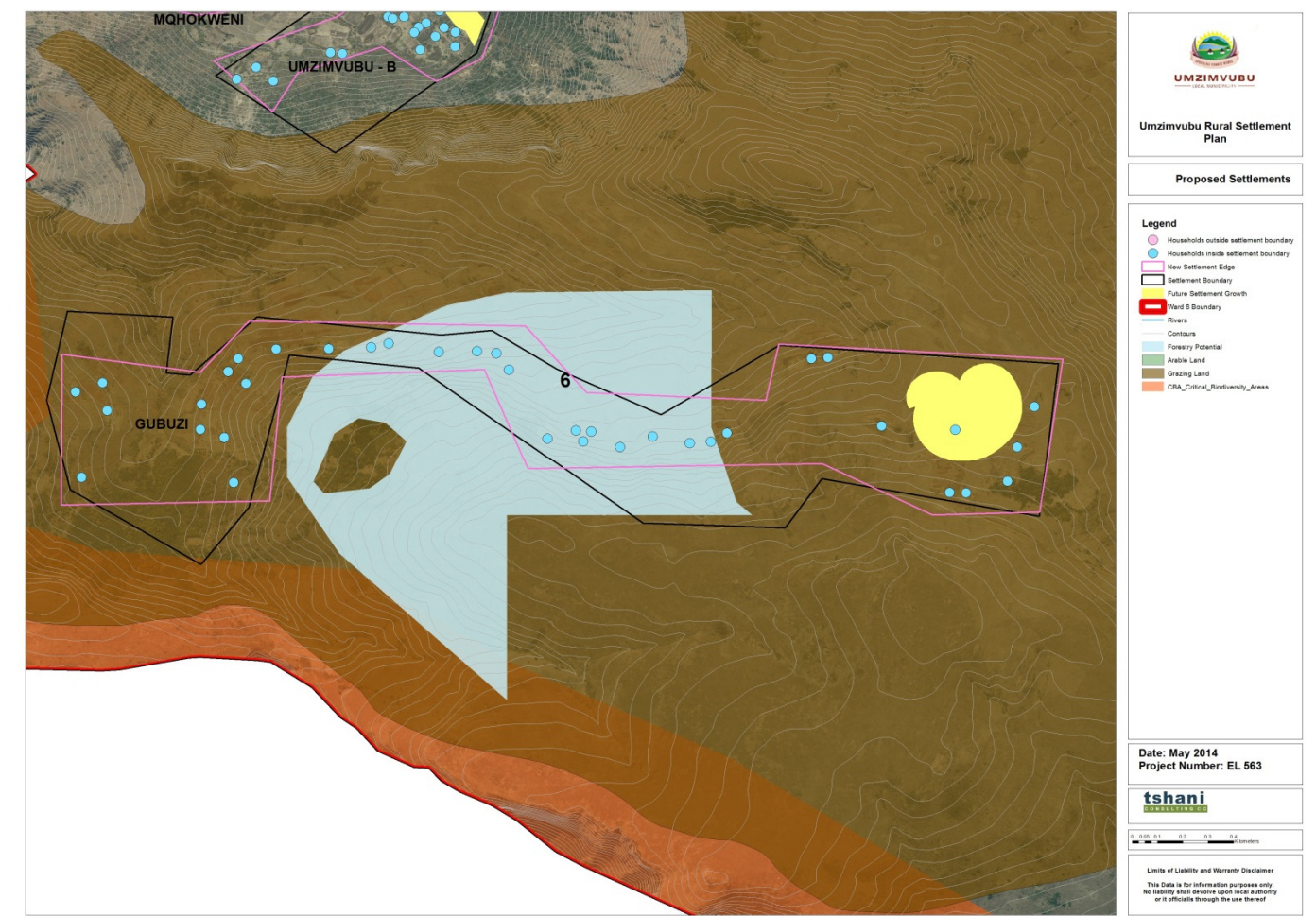


A total area of approximately *0.15 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

Settlement Name	Existing Population Estimate at 2014	Projected Population Growth Rate % of 0.4% per annum	Projected Growth of the Number of Persons per Village (20 Year Period)	Total of Existing and Projected Population by End of 2044	Existing Number of Households Estimate at 2014	Projected Household Growth Rate % of 0.28% per annum	Projected Growth of the Number of Households per Village (20 Year Period)	Total of Existing and Projected Number of Households by End of 2044	Minimum Extent of Land per Household for Residential	Extent of Projected Area and the Number of Sites to Accommodate the Additional Households by 2044
Natala	288	0.4%	23	311	64	0.28%	3	67	500m <sup>2</sup>	0.15Ha (3 sites)

E5.6.18 Gubuzi

In terms of the projection figures calculated over a 20-year period, an *additional two (2) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. It is evident that the settlement expansion area can be accommodated within the existing settlement boundaries.



A total area of approximately *0.1 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

Settlement Name	Existing Population Estimate at 2014	Projected Population Growth Rate % of 0.4% per annum	Projected Growth of the Number of Persons per Village (20 Year Period)	Total of Existing and Projected Population by End of 2044	Existing Number of Households Estimate at 2014	Projected Household Growth Rate % of 0.28% per annum	Projected Growth of the Number of Households per Village (20 Year Period)	Total of Existing and Projected Number of Households by End of 2044	Minimum Extent of Land per Household for Residential	Extent of Projected Area and the Number of Sites to Accommodate the Additional Households by 2044
Gubuzi	167	0.4%	13	180	37	0.28%	2	39	1 000m <sup>2</sup>	0.1Ha (2 sites)



E5.6.19 Umzimvubu B

In terms of the projection figures calculated over a 20-year period, an *additional two (2) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. It is evident that the settlement expansion area can be accommodated within the existing settlement boundaries.

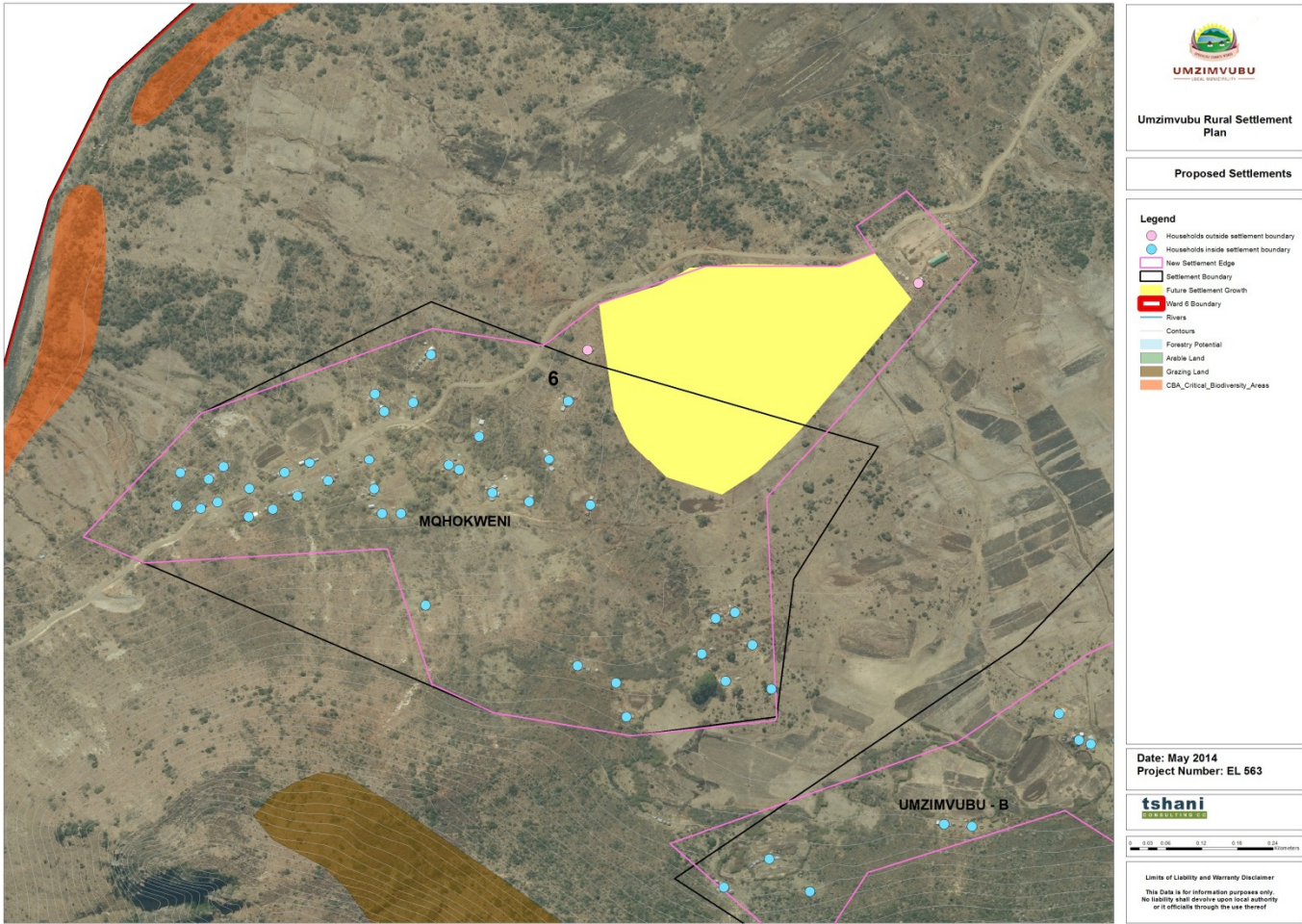


A total area of approximately 0.1 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Umzimvubu B	162	0.4%	13	175	36	0.28%	2	38	500m <sup>2</sup>	0.1Ha (2 sites)

E5.6.20 Mqhokweni

In terms of the projection figures calculated over a 20-year period, an *additional three (3) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



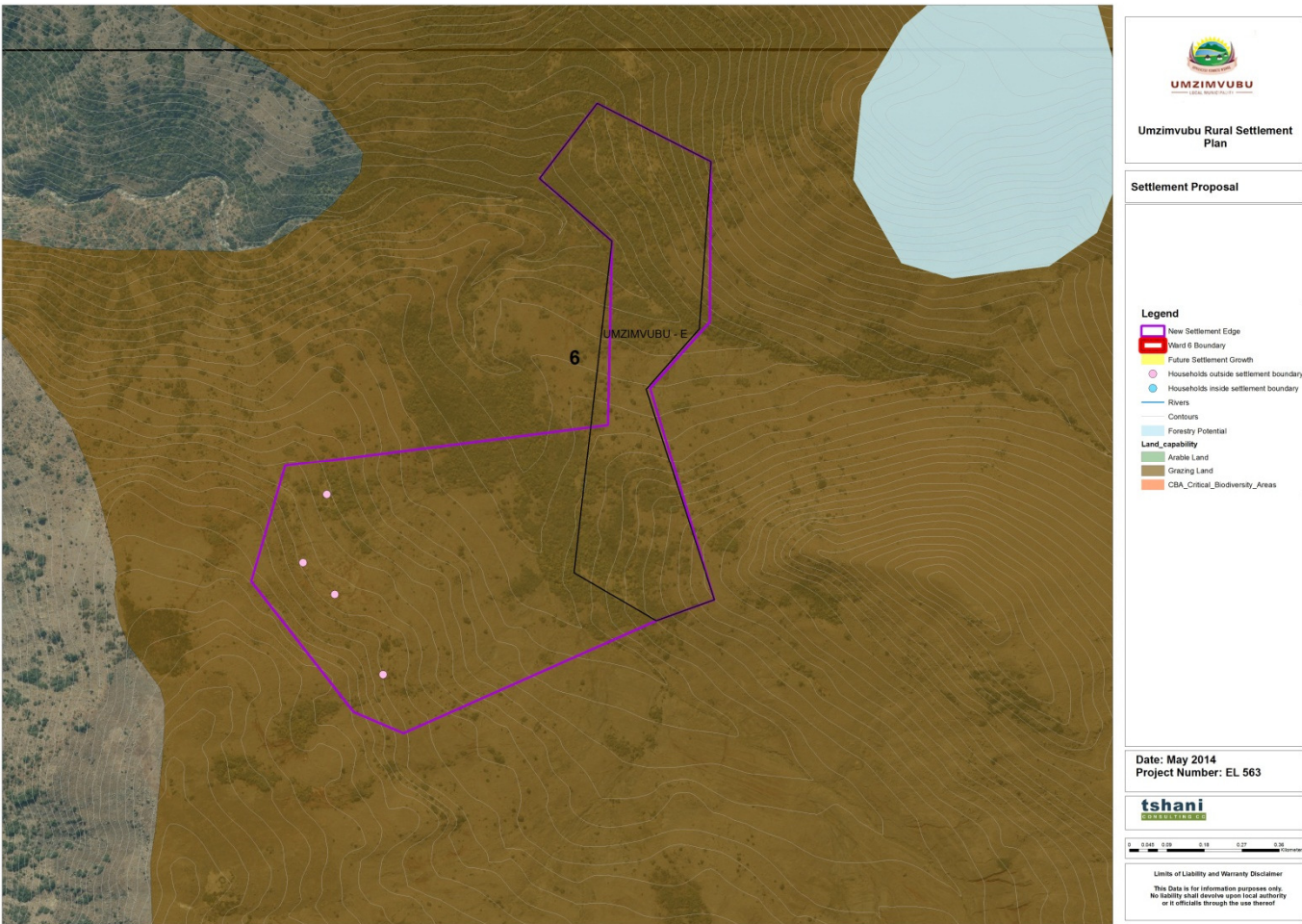
A total area of approximately 0.15 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Mqhokweni	216	0.4%	17	233	48	0.28%	3	51	500m <sup>2</sup>	0.15Ha (3 sites)



E5.6.21 Umzimvubu E

In terms of the projection figures calculated over a 20-year period, *no additional sites* have been planned for within the settlement. The settlement boundaries have been realigned to accommodate existing ‘uncontrolled expansion areas’.

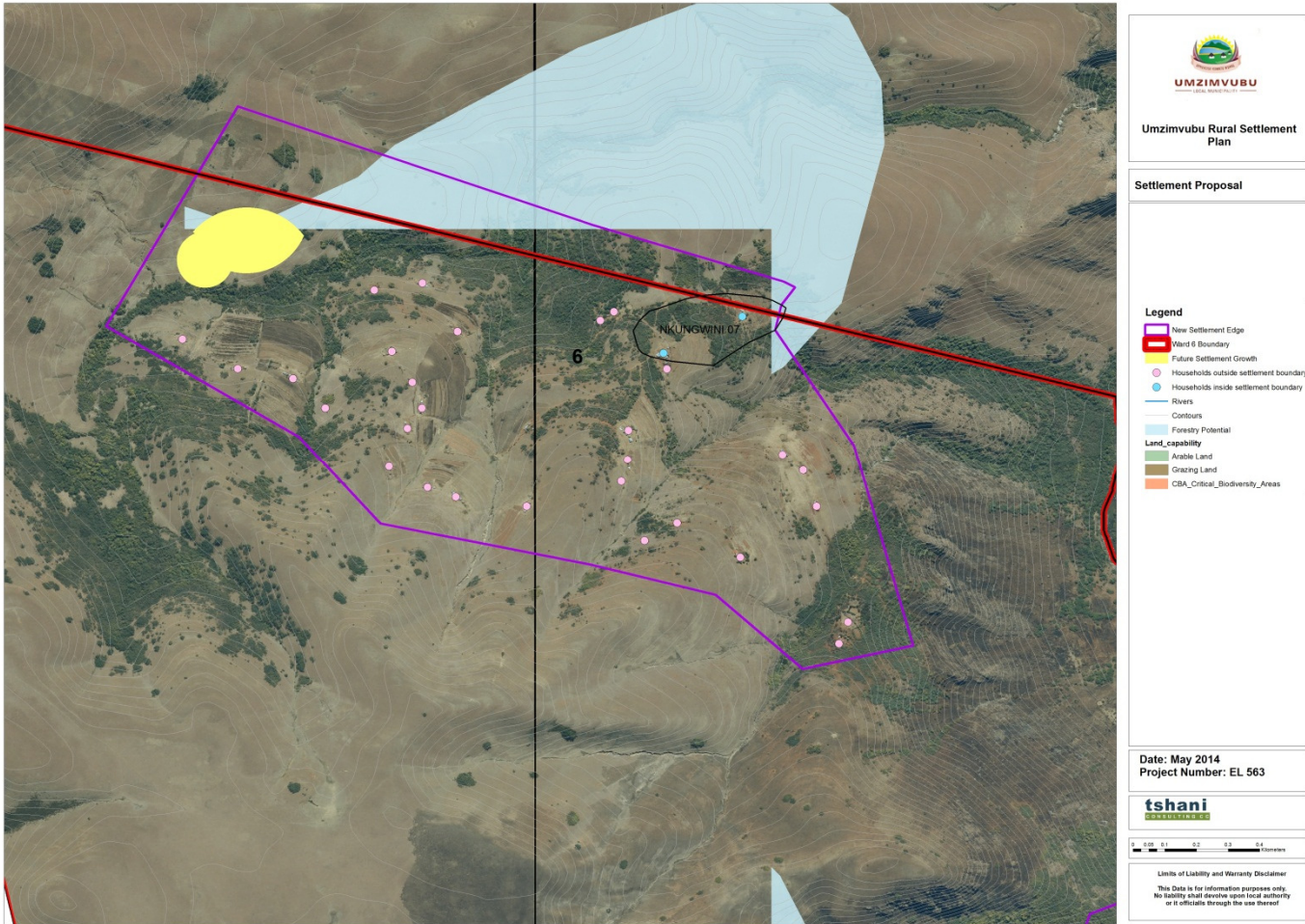


The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Umzimvubu E	0	0.4%	0	0	0	0.28%	0	0	500m <sup>2</sup>	-

E5.6.22 Nkungweini 07

In terms of the projection figures calculated over a 20-year period, an *additional eighteen (18) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. It is evident that the settlement expansion area can be accommodated within the existing settlement boundaries.



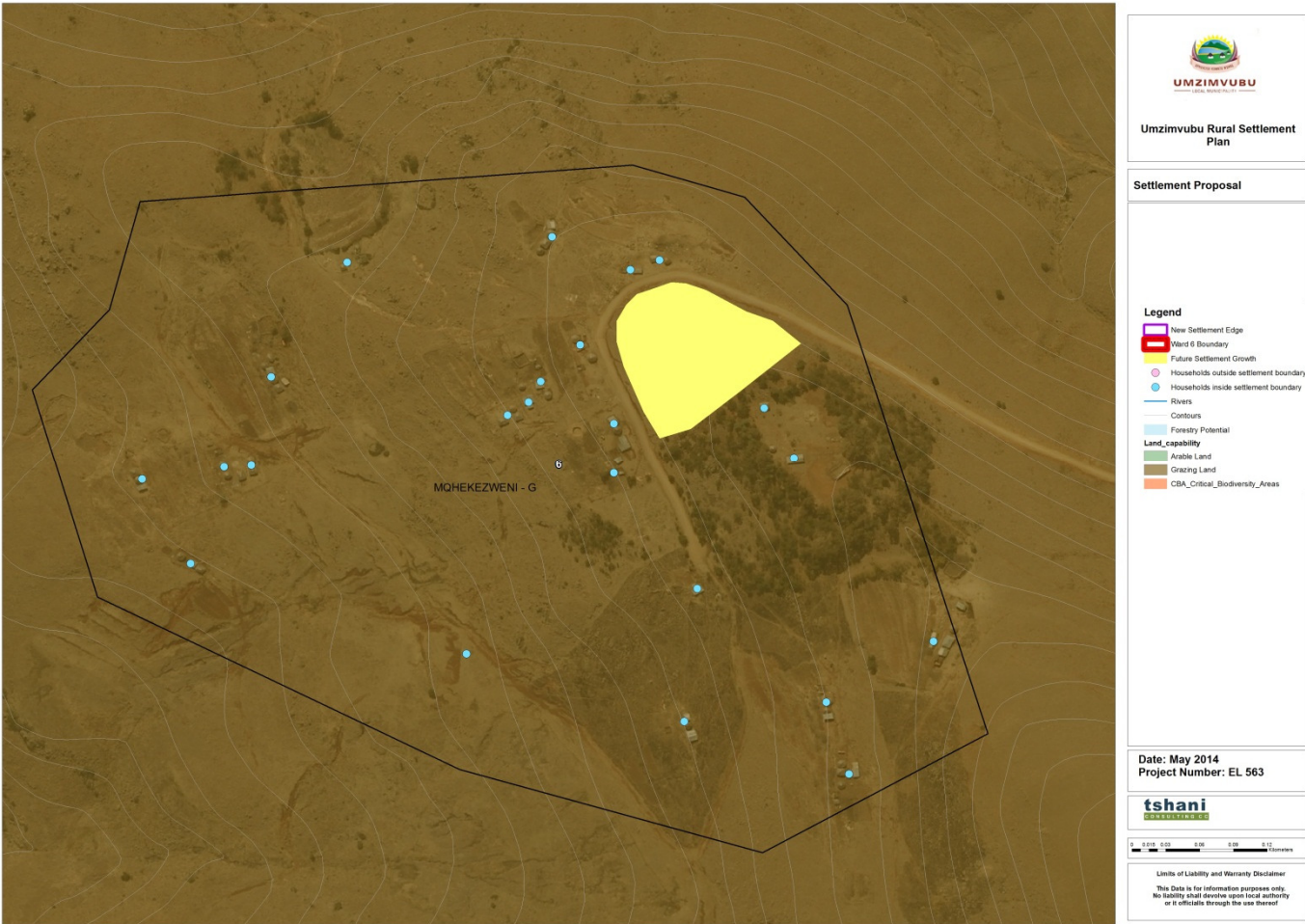
A total area of approximately *0.8 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Nkungweini 07	18	0.4%	1	19	4	0.28%	0	4	500m <sup>2</sup>	-



E5.6.23 Mqhekezweni-G

In terms of the projection figures calculated over a 20-year period, an *additional one (1) site* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



A total area of approximately *0.05 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Mqhekezweni-G	99	0.4%	8	107	22	0.28%	1	23	500m²	0.05Ha (1 site)



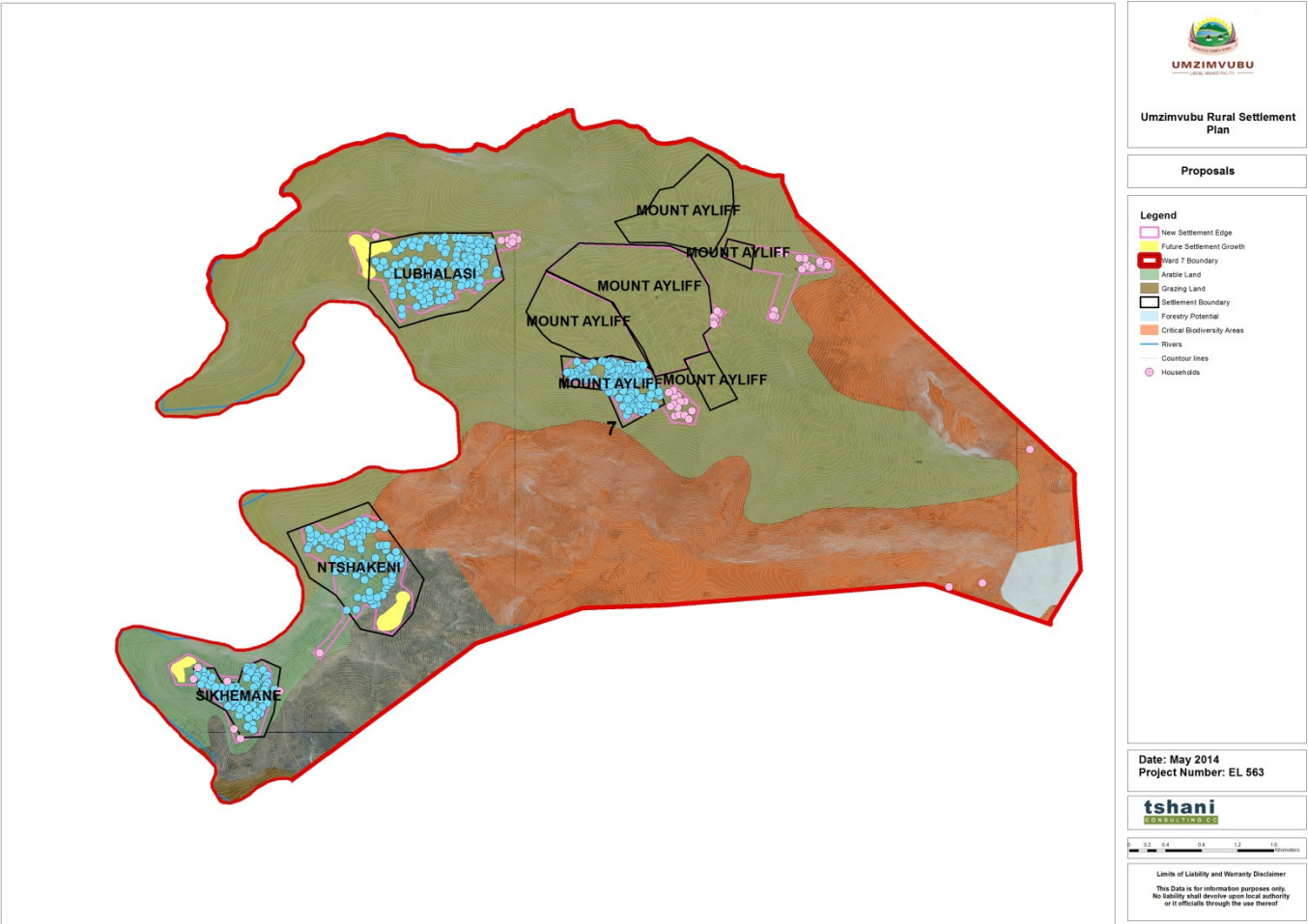
E5.7 Settlement Growth: Ward 7

As indicated in Table No. 14 above, there are currently 341 households located within Ward 7. At a household growth rate of 0.28% per annum, a total number of 19 households is projected over a 20 year period. This equates to approximately 0.95 Hectares in extent required to accommodate the projected households.

In some instances, these areas have been accommodated within the existing settlement boundaries. However, where the topography does not allow for development or where ‘Critical Biodiversity Areas’ exist, expansion areas have been allocated outside the settlement boundaries and the settlement boundaries have been realigned.

The plan below is indicative of the following:

- ▶ Households within settlement boundaries (blue)
- ▶ Households outside settlement boundaries (pink)
- ▶ New expansion areas to accommodate projected households (yellow)
- ▶ Arable land (green)
- ▶ Grazing land (brown)
- ▶ Critical Biodiversity Areas (orange)
- ▶ Existing settlement boundaries (black)
- ▶ New settlement boundaries (purple)



PLAN NO. 15: SETTLEMENT GROWTH: WARD 7

The table below indicates the existing population and projected population growth over a 20 year period, as well as the existing number of households, the projected growth over a 20 year period and the number of sites required to accommodated the projected growth rate.

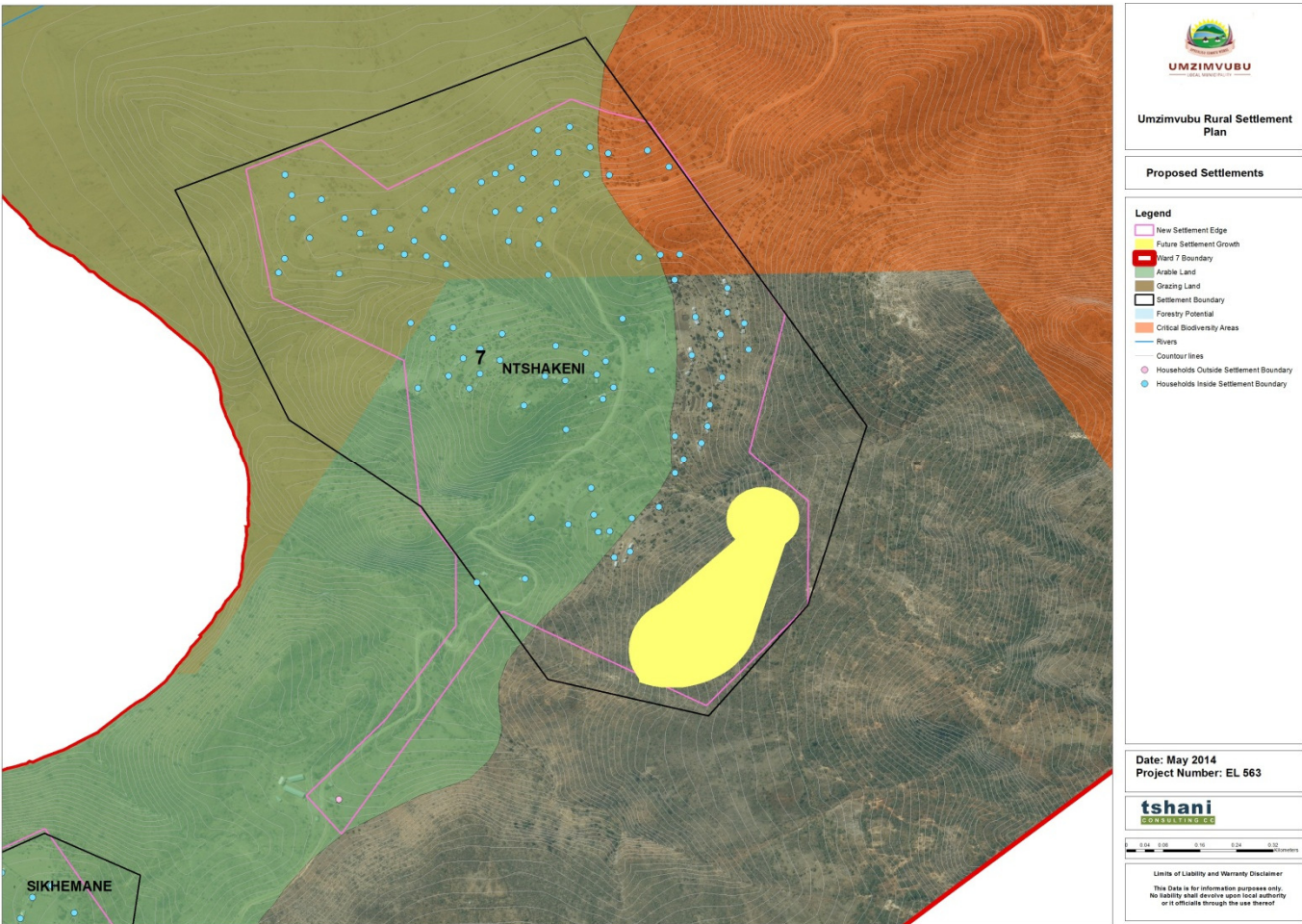
WARD	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
7	1058	0.4%	84	1142	341	0.28%	19	360	500m <sup>2</sup>	0.95 Ha (19 sites)

The analysis for each settlement within Ward 7 is represented hereunder.



E5.7.1 Ntshakeni

In terms of the projection figures calculated over a 20-year period, an *additional six (6) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.

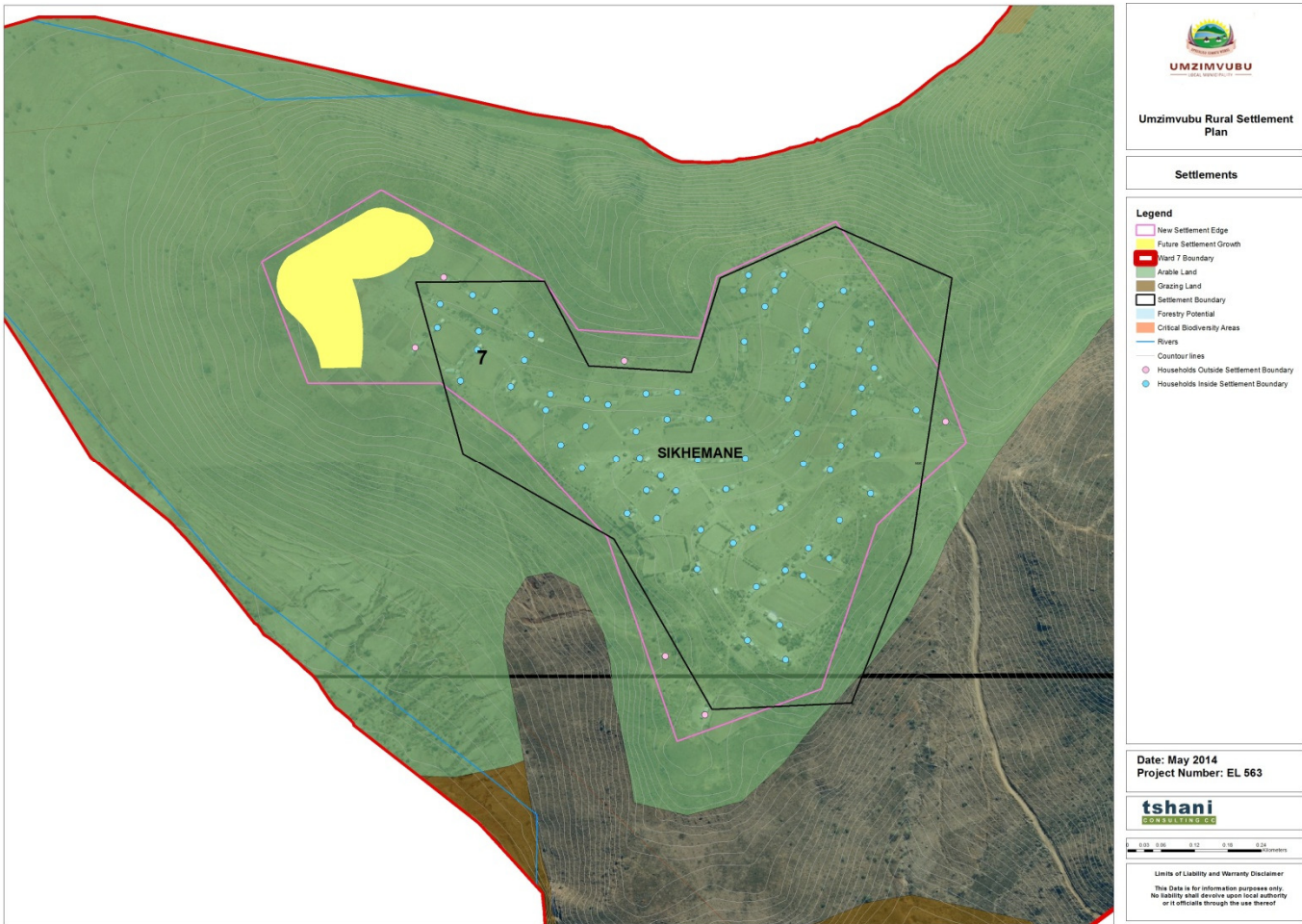


A total area of approximately 0.3 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Ntshakeni	338	0.4%	27	365	109	0.28%	6	115	500m <sup>2</sup>	0.3Ha (6 sites)

E5.7.2 Sikhemane

In terms of the projection figures calculated over a 20-year period, an *additional four (4) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



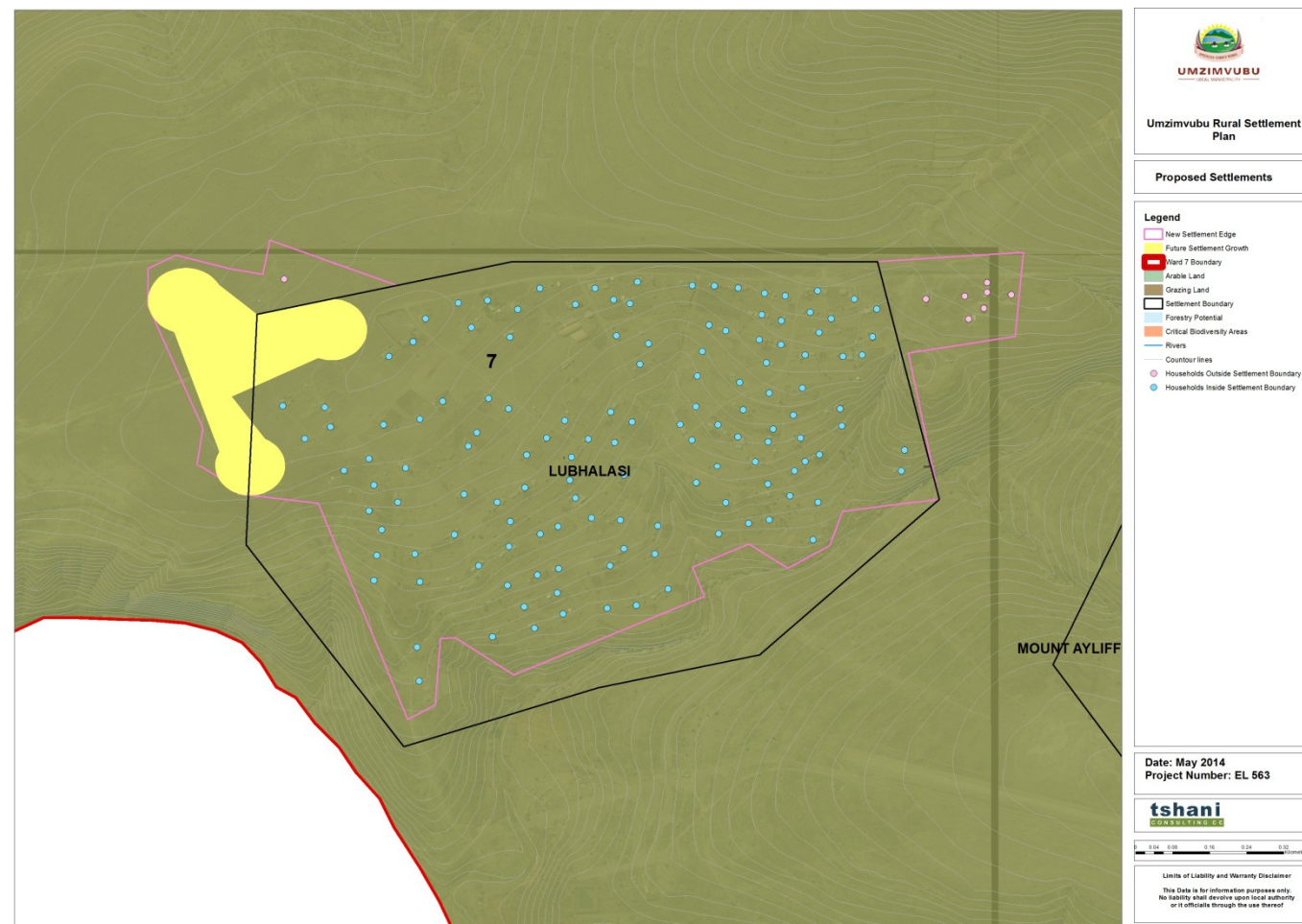
A total area of approximately 0.2 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Sikhemane	236	0.4%	19	255	76	0.28%	4	80	500m <sup>2</sup>	0.2Ha (4 sites)



### E5.7.3 Lubhalasi

In terms of the projection figures calculated over a 20-year period, an *additional nine (9) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing 'uncontrolled expansion areas'.



A total area of approximately *0.45 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Lubhalasi	484	0.4%	38	522	156	0.28%	9	165	500m <sup>2</sup>	0.45Ha (9 sites)



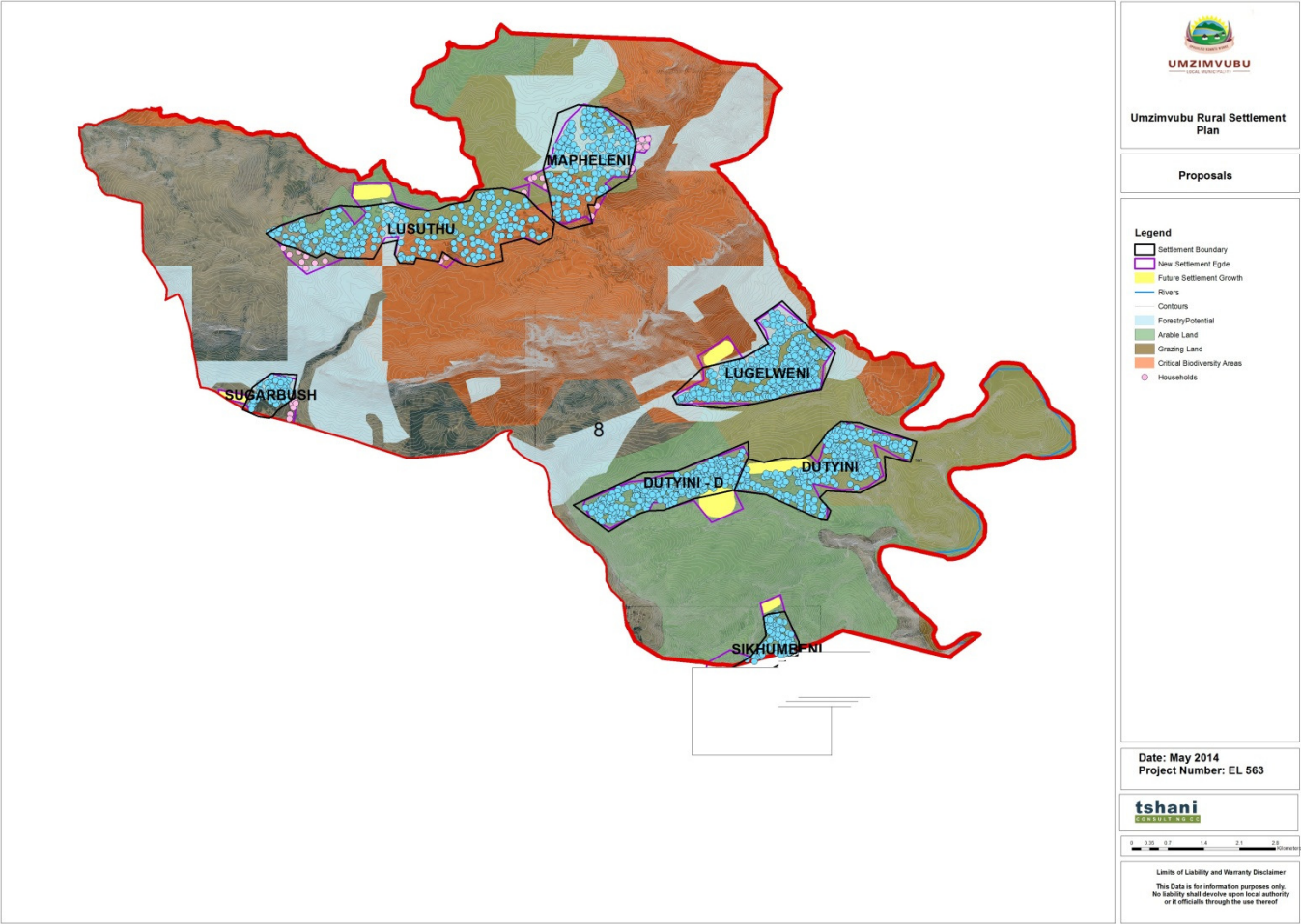
E5.8 Settlement Growth: Ward 8

As indicated in Table No. 14 above, there are currently 1 432 households located within Ward 8. At a household growth rate of 0.28% per annum, a total number of 78 households is projected over a 20 year period. This equates to approximately 3.9 Hectares in extent required to accommodate the projected households.

In some instances, these areas have been accommodated within the existing settlement boundaries. However, where the topography does not allow for development or where ‘Critical Biodiversity Areas’ exist, expansion areas have been allocated outside the settlement boundaries and the settlement boundaries have been realigned.

The plan below is indicative of the following:

- ▶ Households within settlement boundaries (blue)
- ▶ Households outside settlement boundaries (pink)
- ▶ New expansion areas to accommodate projected households (yellow)
- ▶ Arable land (green)
- ▶ Grazing land (brown)
- ▶ Critical Biodiversity Areas (orange)
- ▶ Existing settlement boundaries (black)
- ▶ New settlement boundaries (purple)



PLAN NO. 16: SETTLEMENT GROWTH: WARD 8

The table below indicates the existing population and projected population growth over a 20 year period, as well as the existing number of households, the projected growth over a 20 year period and the number of sites required to accommodated the projected growth rate.

WARD	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
8	6158	0.4%	485	6643	1432	0.28%	78	1510	500m <sup>2</sup>	3.9 Ha (78 sites)

The analysis for each settlement within Ward 8 is represented hereunder.



E5.8.1 Sikhumbeni

In terms of the projection figures calculated over a 20-year period, an *additional six (6) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



A total area of approximately 0.3 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Sikhumbeni	434	0.4%	34	468	101	0.28%	6	107	500m <sup>2</sup>	0.3Ha (6 sites)

E5.8.2 Dutyini

In terms of the projection figures calculated over a 20-year period, an *additional sixteen (16) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. It is evident that the settlement expansion area can be accommodated within the existing settlement boundaries.



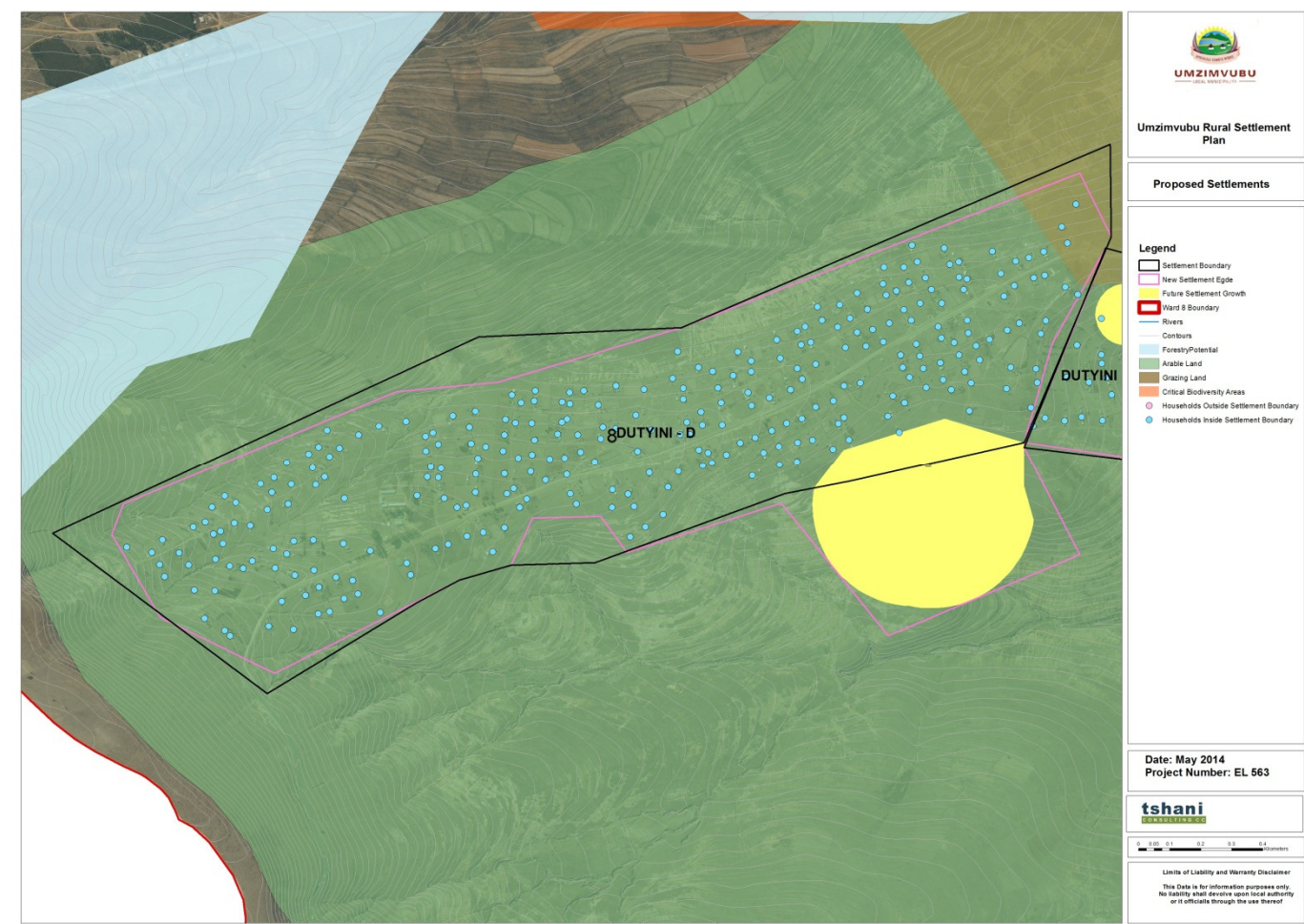
A total area of approximately 0.8 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Dutyini	1 273	0.4%	100	1 373	296	0.28%	16	312	500m <sup>2</sup>	0.8Ha (16 sites)



E5.8.3 Dutyini D

In terms of the projection figures calculated over a 20-year period, an *additional fourteen (14) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth.

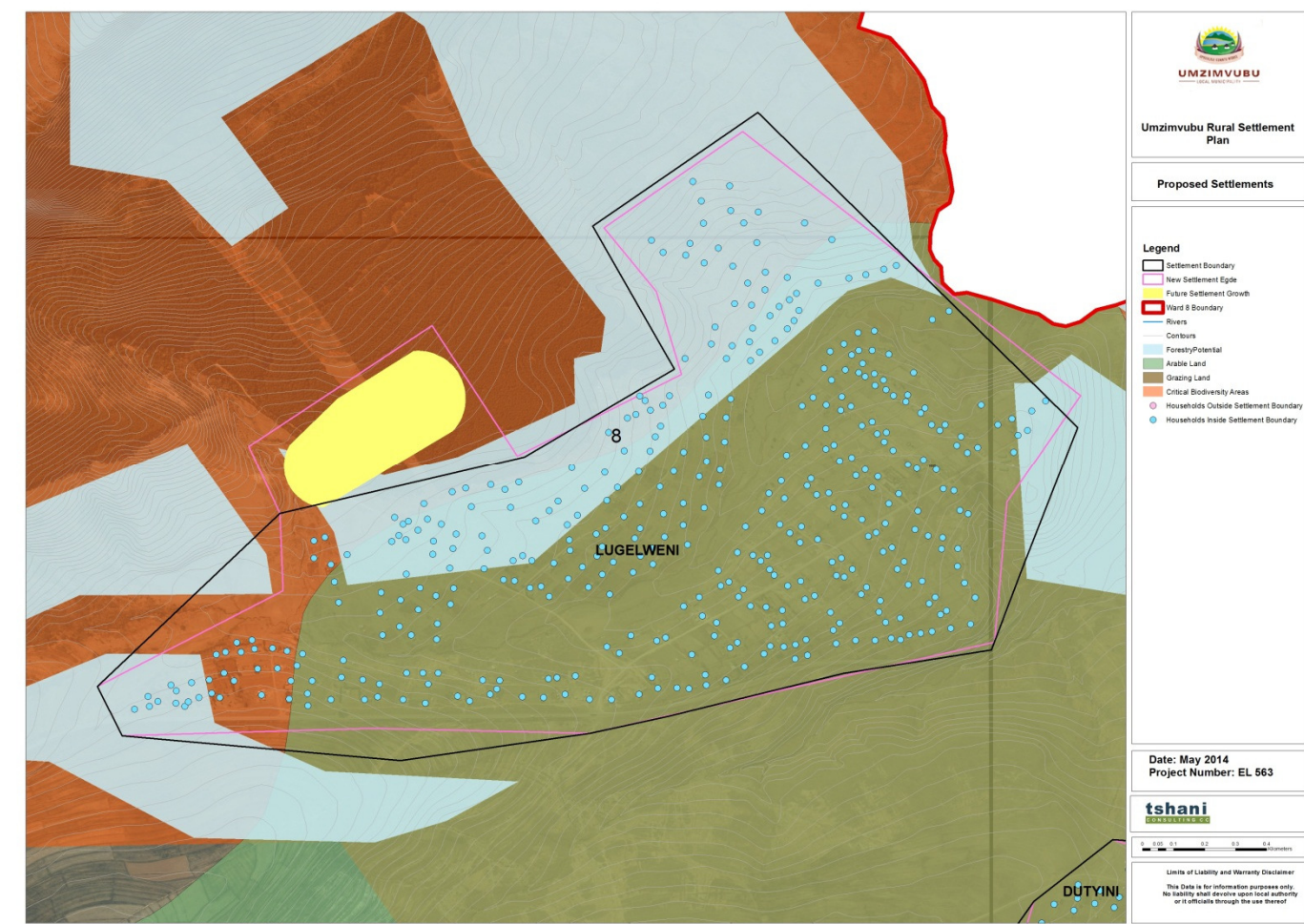


A total area of approximately 0.7 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

Settlement Name	Existing Population Estimate at 2014	Projected Population Growth Rate % of 0.4% per annum	Projected Growth of the Number of Persons per Village (20 Year Period)	Total of Existing and Projected Population by End of 2044	Existing Number of Households Estimate at 2014	Projected Household Growth Rate % of 0.28% per annum	Projected Growth of the Number of Households per Village (20 Year Period)	Total of Existing and Projected Number of Households by End of 2044	Minimum Extent of Land per Household for Residential	Extent of Projected Area and the Number of Sites to Accommodate the Additional Households by 2044
Dutyini D	1 079	0.4%	85	1 164	251	0.28%	14	265	500m <sup>2</sup>	0.7Ha (14 sites)

E5.8.4 Lugelweni

In terms of the projection figures calculated over a 20-year period, an *additional fifteen (15) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth.



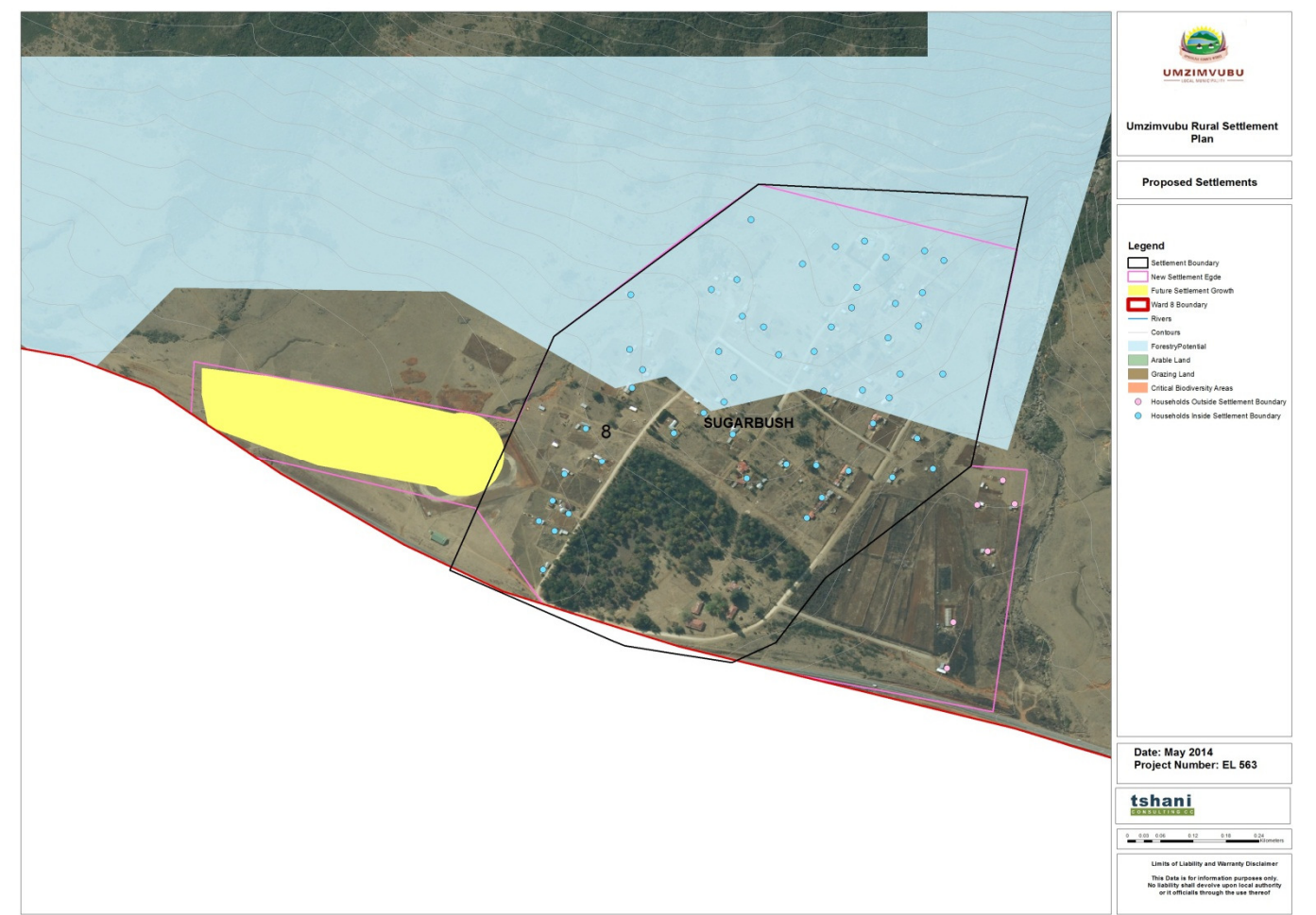
A total area of approximately 0.75 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

Settlement Name	Existing Population Estimate at 2014	Projected Population Growth Rate % of 0.4% per annum	Projected Growth of the Number of Persons per Village (20 Year Period)	Total of Existing and Projected Population by End of 2044	Existing Number of Households Estimate at 2014	Projected Household Growth Rate % of 0.28% per annum	Projected Growth of the Number of Households per Village (20 Year Period)	Total of Existing and Projected Number of Households by End of 2044	Minimum Extent of Land per Household for Residential	Extent of Projected Area and the Number of Sites to Accommodate the Additional Households by 2044
Lugelweni	1 152	0.4%	91	1 243	268	0.28%	15	283	500m <sup>2</sup>	0.75Ha (15 sites)



E5.8.5 Sugarbush

In terms of the projection figures calculated over a 20-year period, an *additional three (3) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.

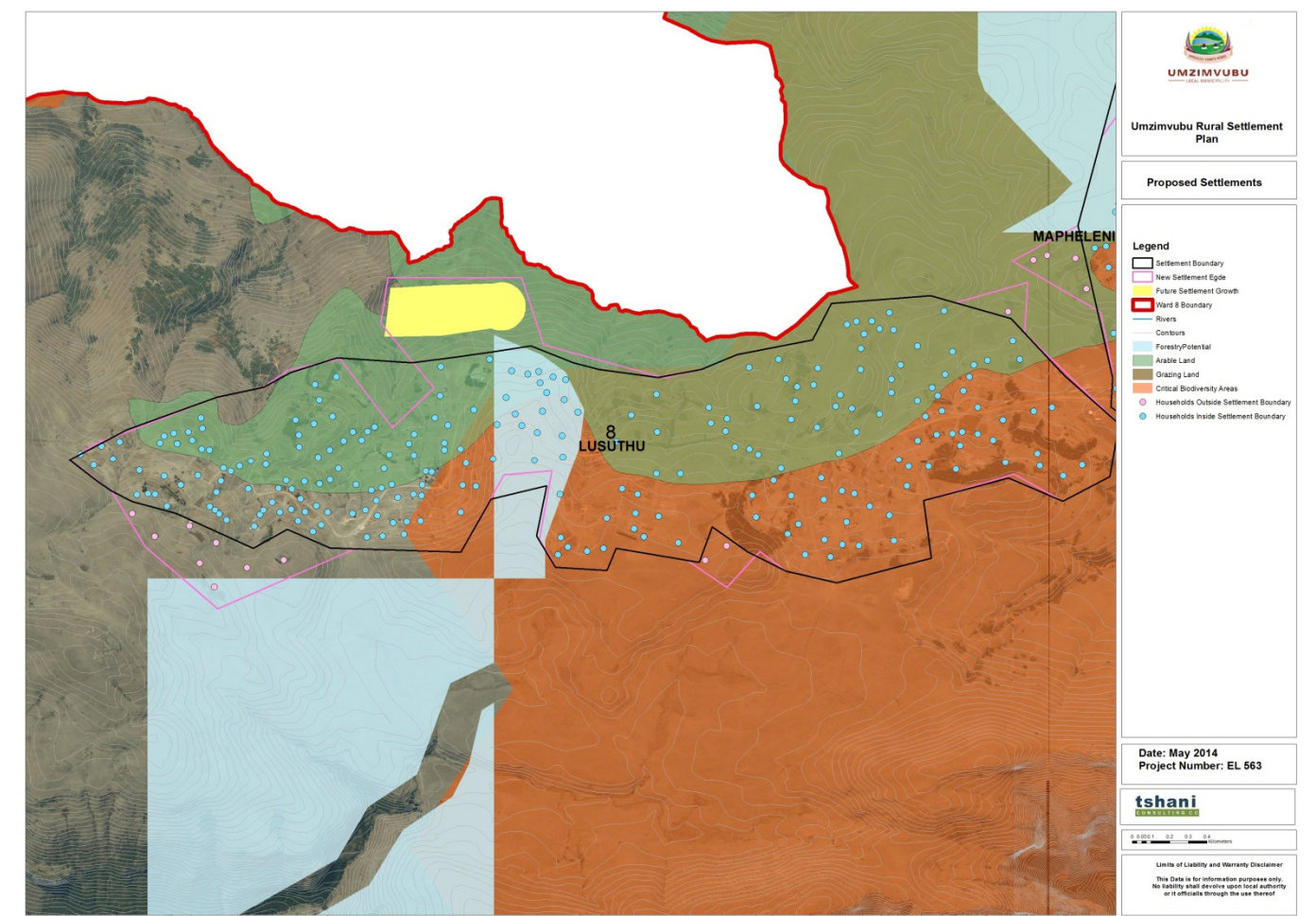


A total area of approximately *0.15 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Sugarbush	275	0.4%	22	297	64	0.28%	3	67	500m <sup>2</sup>	0.15Ha (3 sites)

E5.8.6 Lusuthu

In terms of the projection figures calculated over a 20-year period, an *additional thirteen (13) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



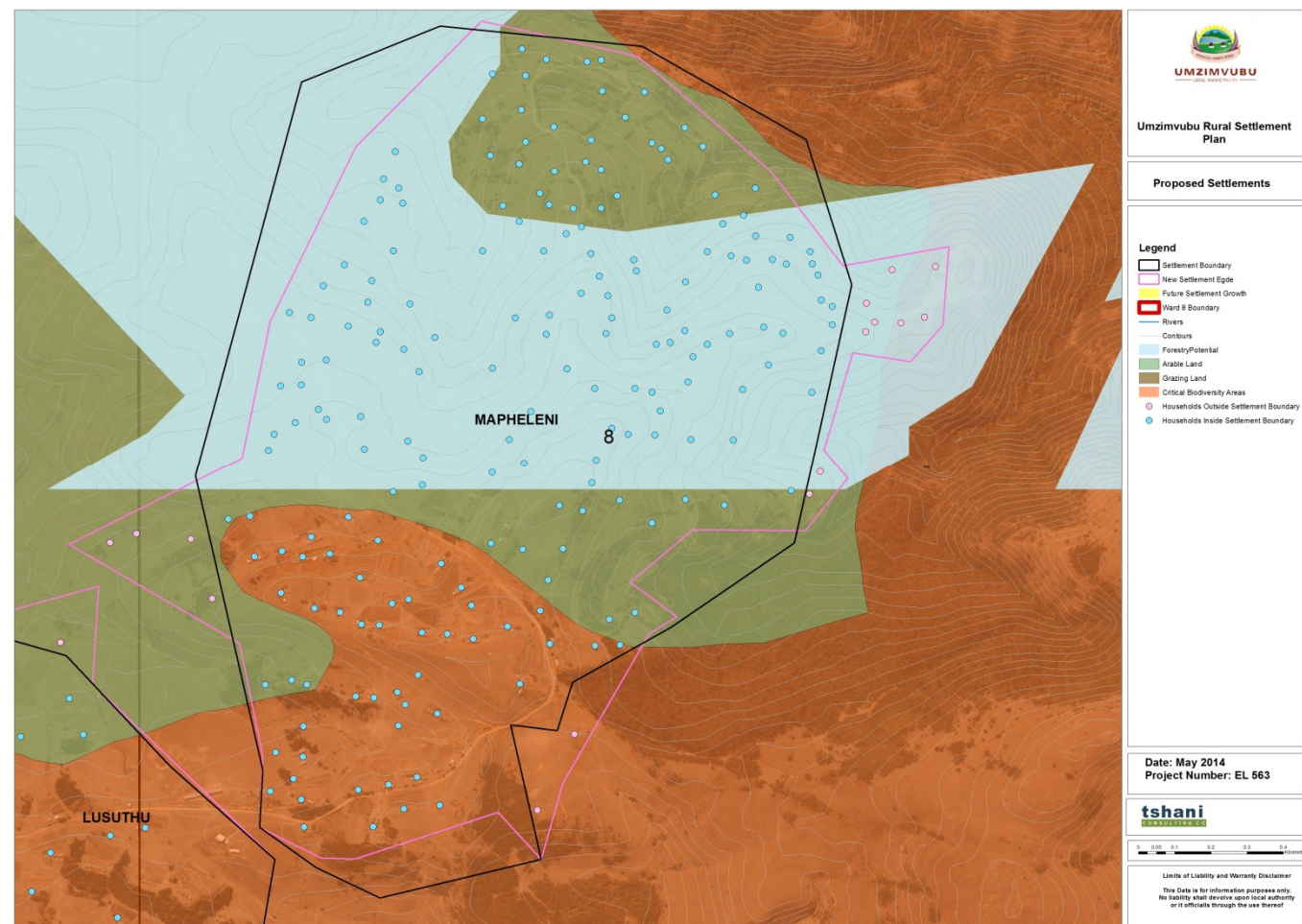
A total area of approximately *0.65 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOULDS BY 2044
Lusuthu	1 059	0.4%	83	1 142	246	0.28%	13	259	500m <sup>2</sup>	0.65Ha (13 sites)



### E5.8.7 Mapheleni

In terms of the projection figures calculated over a 20-year period, an *additional eleven (11) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing 'uncontrolled expansion areas'.



A total area of approximately *0.55 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Mapheleni	886	0.4%	70	956	206	0.28%	11	217	500m <sup>2</sup>	0.55Ha (11 sites)



E5.9 Settlement Growth: Ward 9

As indicated in Table No. 14 above, there are currently 1 363 households located within Ward 9. At a household growth rate of 0.28% per annum, a total number of 74 households is projected over a 20 year period. This equates to approximately 7.4 Hectares in extent required to accommodate the projected households.

In some instances, these areas have been accommodated within the existing settlement boundaries. However, where the topography does not allow for development or where ‘Critical Biodiversity Areas’ exist, expansion areas have been allocated outside the settlement boundaries and the settlement boundaries have been realigned.

The plan below is indicative of the following:

- ▶ Households within settlement boundaries (blue)
- ▶ Households outside settlement boundaries (pink)
- ▶ New expansion areas to accommodate projected households (yellow)
- ▶ Arable land (green)
- ▶ Grazing land (brown)
- ▶ Critical Biodiversity Areas (orange)
- ▶ Existing settlement boundaries (black)
- ▶ New settlement boundaries (purple)



PLAN NO. 17: SETTLEMENT GROWTH: WARD 9

The table below indicates the existing population and projected population growth over a 20 year period, as well as the existing number of households, the projected growth over a 20 year period and the number of sites required to accommodated the projected growth rate.

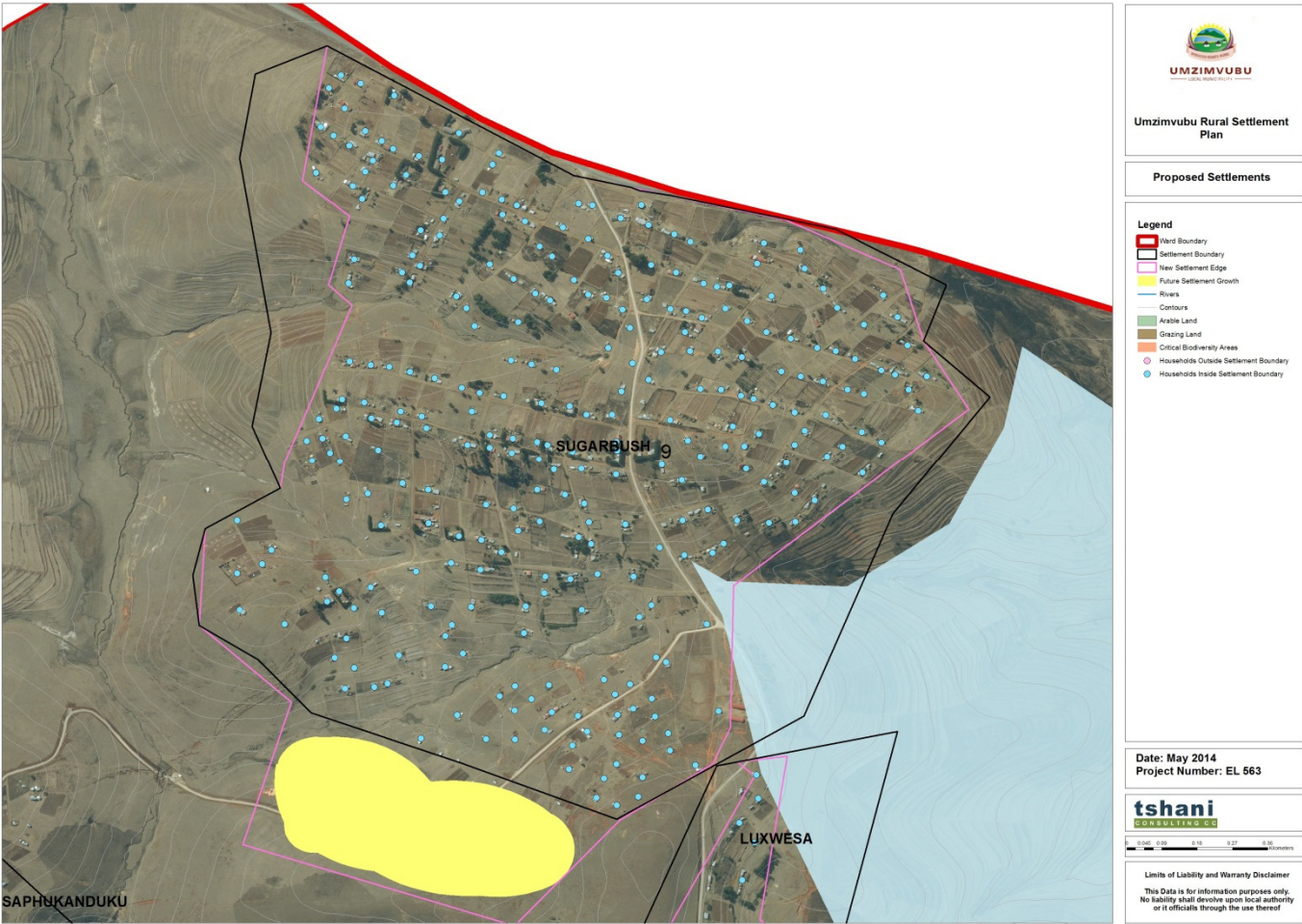
SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
9	14 062	0.4%	1108	15 170	1435	0.28%	78	1513	500m² & 1 000m²	6.05 Ha (78 sites)

The analysis for each settlement within Ward 9 is represented hereunder.



E5.9.1 Portion of Sugarbush

In terms of the projection figures calculated over a 20-year period, an *additional twenty (20) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth.

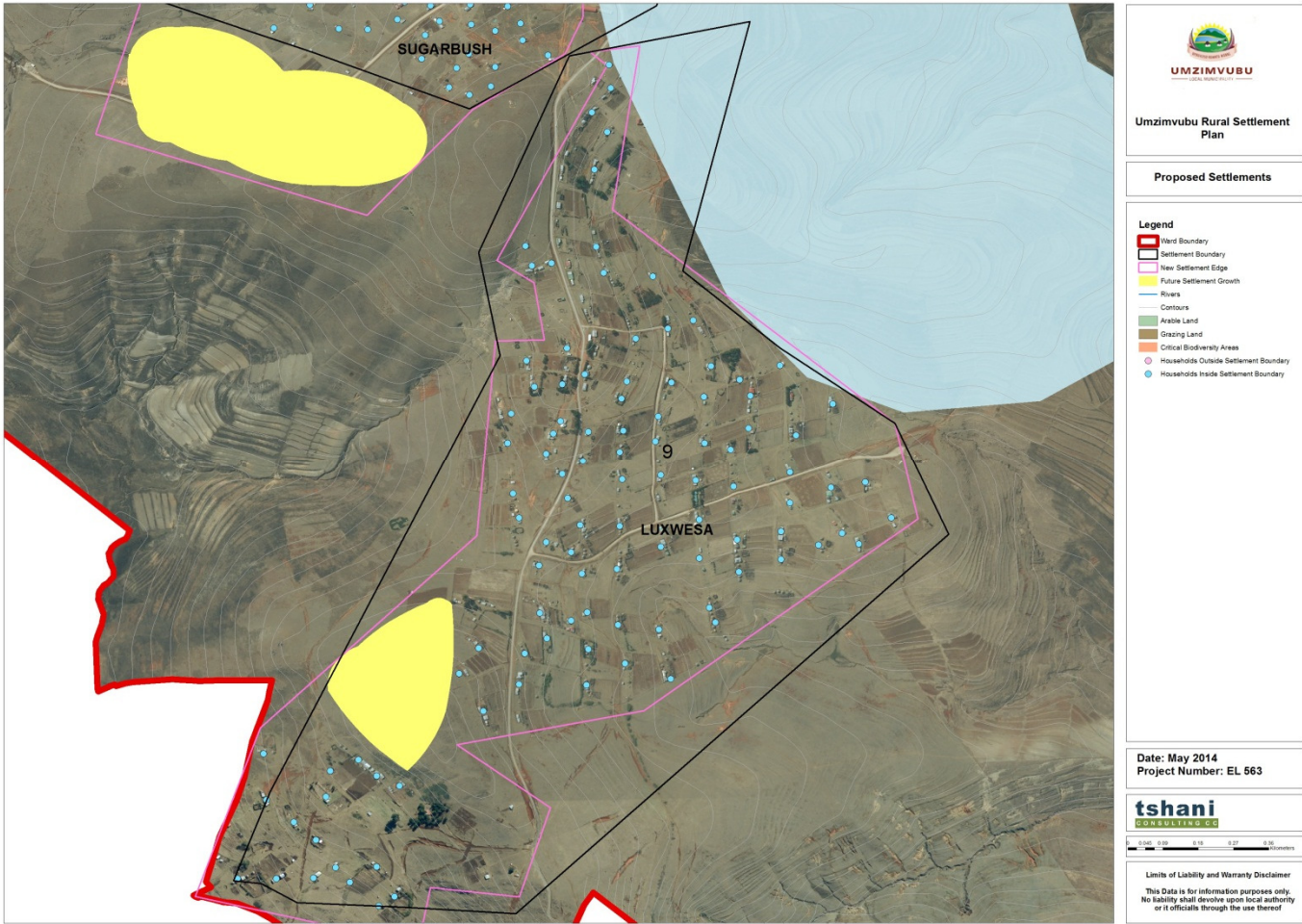


A total area of approximately 2.0 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Portion of Sugarbush	3 626	0.4%	286	3 912	370	0.28%	20	390	1 000m <sup>2</sup>	2.0Ha (20 sites)

E5.9.2 Luxwesa

In terms of the projection figures calculated over a 20-year period, an *additional ten (10) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth.



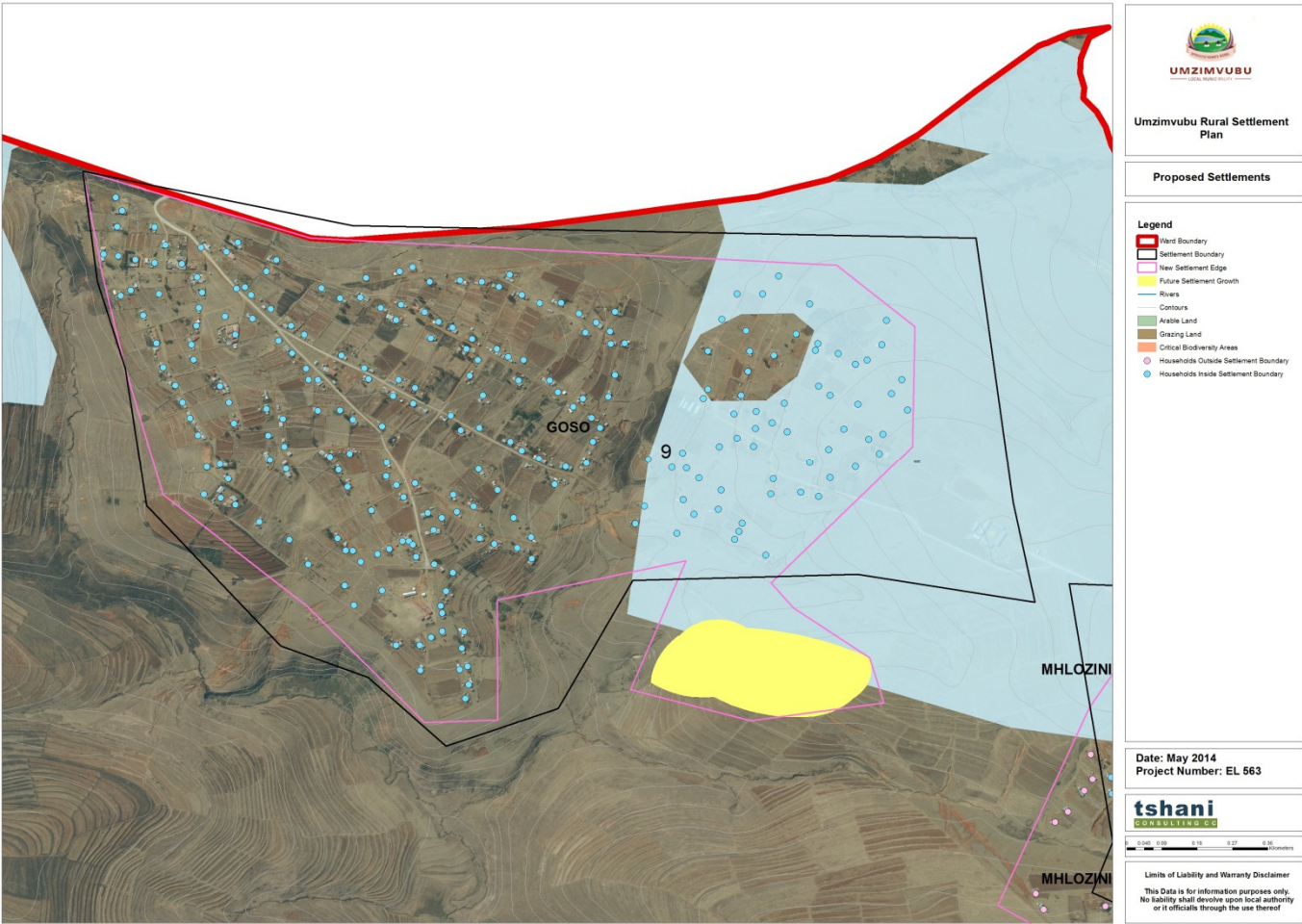
A total area of approximately 1.0 Hectares is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Luxwesa	1 744	0.4%	137	1 881	178	0.28%	10	188	1 000m <sup>2</sup>	1.0Ha (10 sites)



E5.9.3 Goso

In terms of the projection figures calculated over a 20-year period, an *additional thirteen (13) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth.

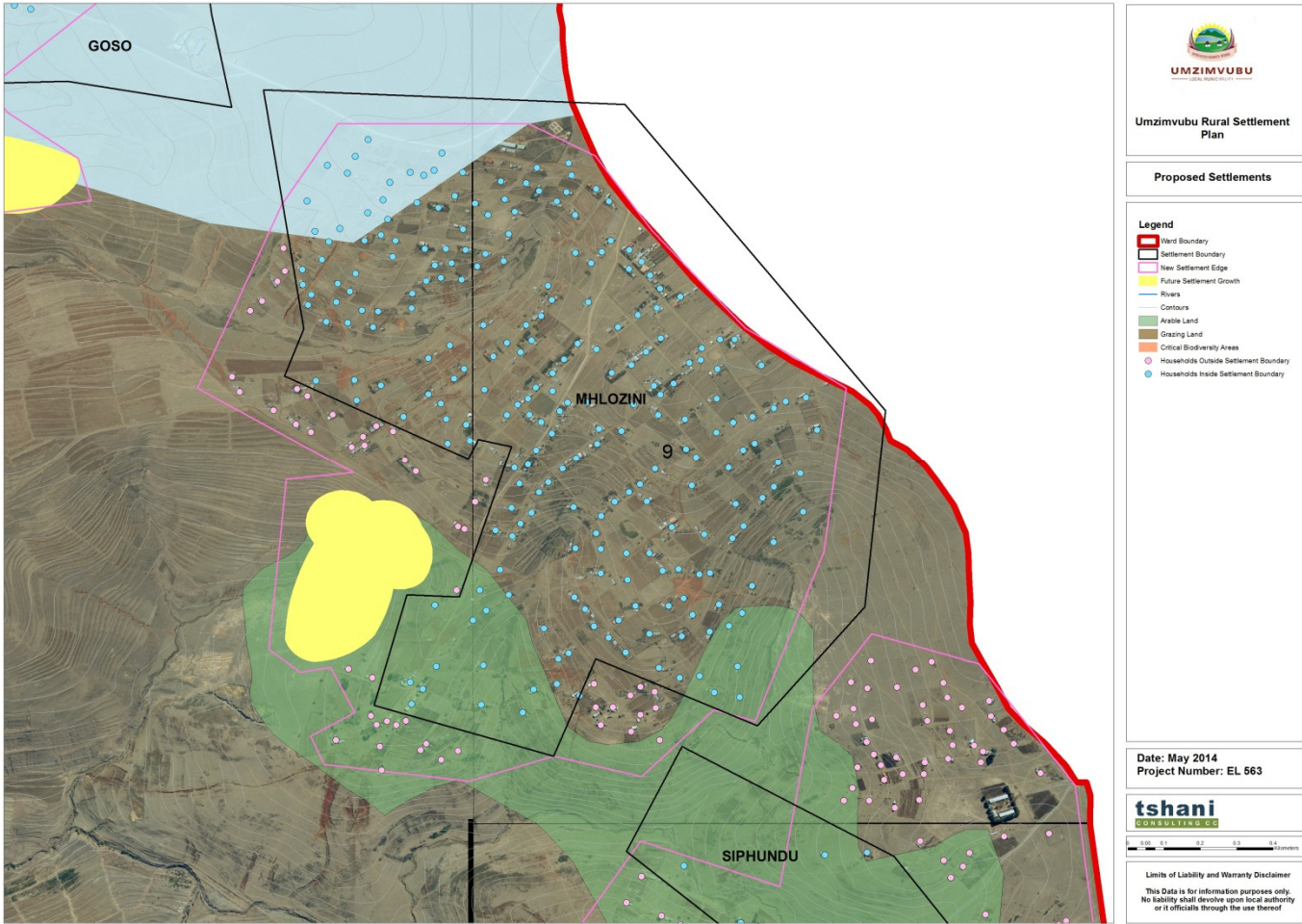


A total area of approximately *1.3 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Goso	2 362	0.4%	186	2 548	241	0.28%	13	254	1 000m <sup>2</sup>	1.3Ha (13 sites)

E5.9.4 Mhlozini

In terms of the projection figures calculated over a 20-year period, an *additional sixteen (16) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



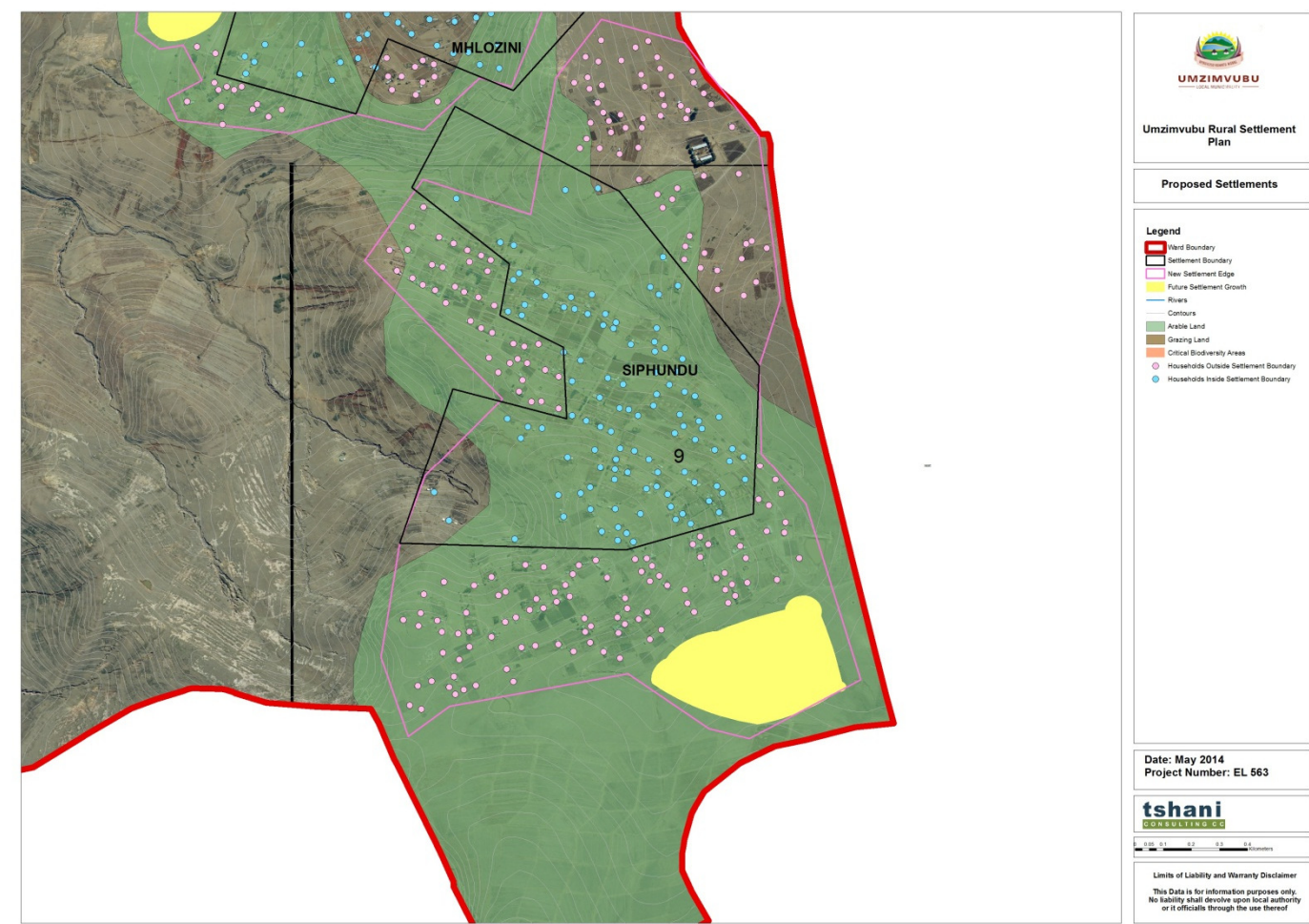
A total area of approximately *0.8 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Mhlozini	2 842	0.4%	224	3 066	290	0.28%	16	306	500m <sup>2</sup>	0.8Ha (16 sites)



E5.9.5 Siphundu

In terms of the projection figures calculated over a 20-year period, an *additional fifteen (15) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the future growth, as well as the existing ‘uncontrolled expansion areas’.



A total area of approximately *0.75 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Siphundu	2 783	0.4%	219	3 002	284	0.28%	15	299	500m <sup>2</sup>	0.75Ha (15 sites)

E5.9.6 Portion of Saphukanduku

In terms of the projection figures calculated over a 20-year period, an *additional four (4) sites* is required to accommodate the projected growth of the settlement. The plan below highlights the area that has been identified for expansion of the settlement. The settlement boundaries have been realigned to accommodate the existing ‘uncontrolled expansion areas’.



A total area of approximately *0.2 Hectares* is required for future expansion purposes. As a pre-requisite, an additional 20% of the area has also been allocated for the provision of roadways and public open spaces. The table below is a summary of the population and household projections for the settlement.

SETTLEMENT NAME	EXISTING POPULATION ESTIMATE AT 2014	PROJECTED POPULATION GROWTH RATE % OF 0.4% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF PERSONS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED POPULATION BY END OF 2044	EXISTING NUMBER OF HOUSEHOLDS ESTIMATE AT 2014	PROJECTED HOUSEHOLD GROWTH RATE % OF 0.28% PER ANNUM	PROJECTED GROWTH OF THE NUMBER OF HOUSEHOLDS PER VILLAGE (20 YEAR PERIOD)	TOTAL OF EXISTING AND PROJECTED NUMBER OF HOUSEHOLDS BY END OF 2044	MINIMUM EXTENT OF LAND PER HOUSEHOLD FOR RESIDENTIAL	EXTENT OF PROJECTED AREA AND THE NUMBER OF SITES TO ACCOMMODATE THE ADDITIONAL HOUSEHOLDS BY 2044
Portion of Saphukanduku	705	0.4%	56	761	72	0.28%	4	76	500m <sup>2</sup>	0.2Ha (4 sites)