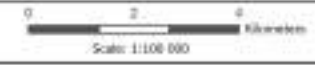
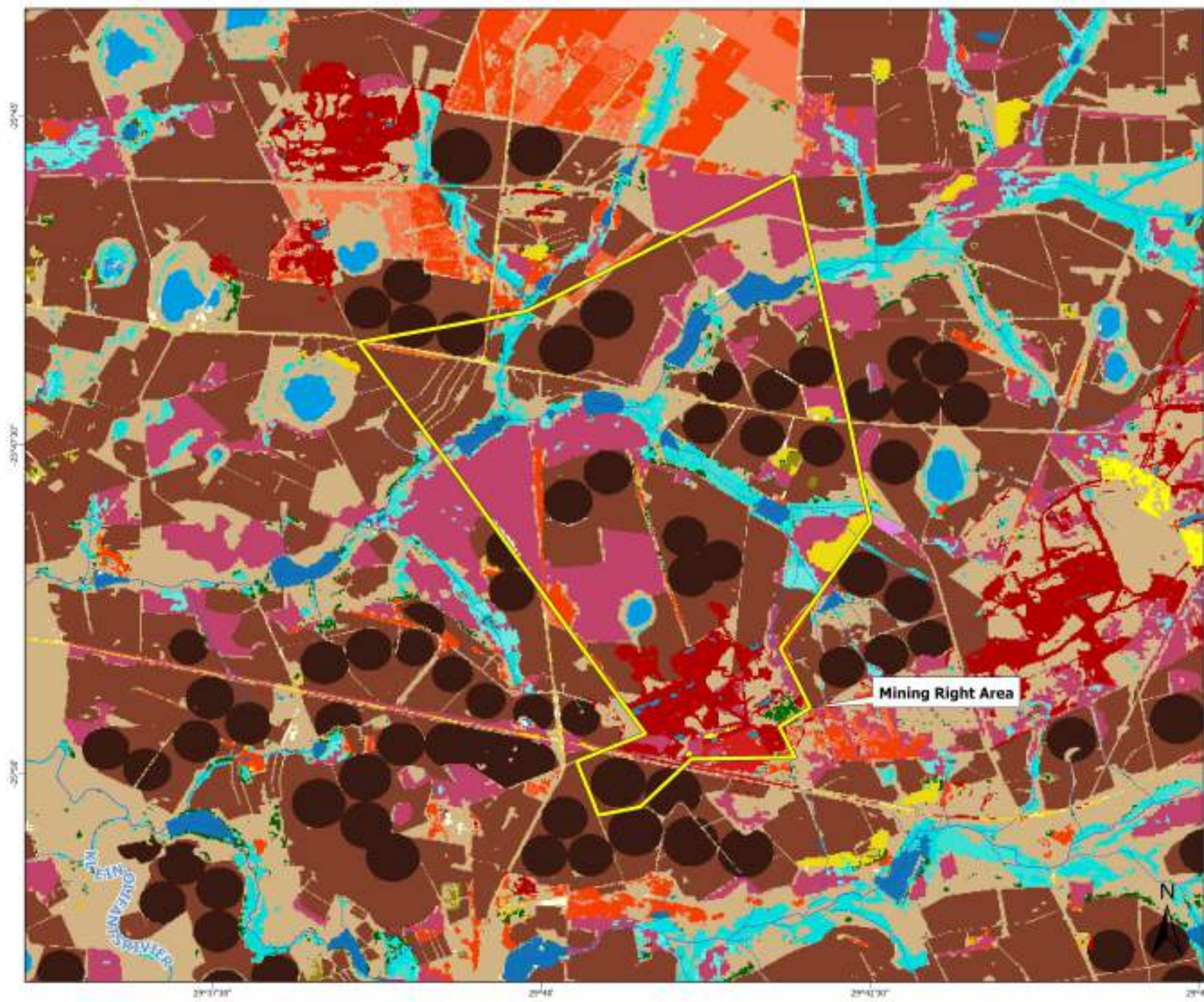




- Legend**
- Mining Right Boundary
 - Rivers and Streams**
 - Perennial River
 - Non-Perennial

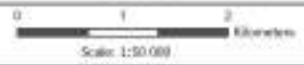


DATA SOURCE: THE WORLD TOPOGRAPHIC MAP	
PROJECTION: GEOGRAPHIC	DATE: 2022/03/11
Datum: WGS84	PG: 22-1702
PROJECT: LONDANI PP 5103	
CLIENT: LONDANI EDAL (PTY) LTD	
Tel: 012 657 0555 Email: info@edal.co.za www.edalminerals.co.za	
	

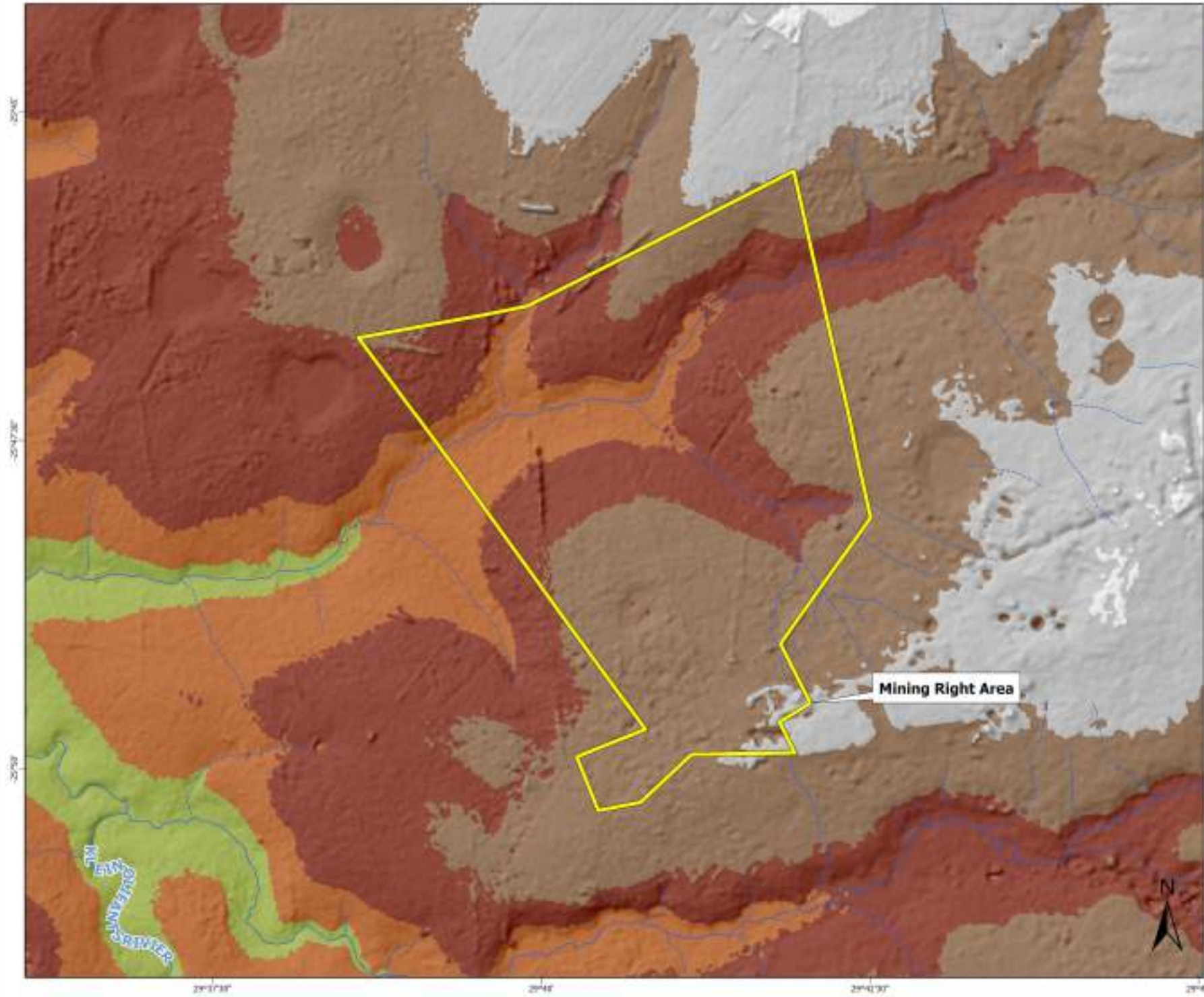


- Legend**
- Mining Right Boundary
 - Rivers and Streams
 - Perennial River
 - Non-Perennial
 - Landcover Class
 - contiguous low forest & thicket
 - dense forest & woodland
 - open woodland
 - contiguous & dense plantation forest
 - open & sparse plantation forest
 - temporary unplanted (clear-filled) plantation forest
 - natural grassland
 - natural rivers
 - natural pans (flooded @ observation times)
 - artificial dams (including canals)
 - artificial flooded mine pits
 - herbaceous wetlands (currently mapped)
 - herbaceous wetlands (previously mapped)
 - dry pans
 - wetland beds
 - bare riverbed material
 - other bare
 - commercial annual crops pivot irrigated
 - commercial annual crops non-irrig / dryland
 - fallow land & old fields
 - residential formal
 - residential informal
 - village scattered and dense
 - commercial
 - industrial
 - roads & rails (major linear)
 - mines: surface infrastructure
 - mines: extraction pits, quarries
 - mines: tailings and resource dumps
 - fallow land & old fields (wetlands)

Mining Right Area



DATA SOURCES: 2013 NATIONAL LANDCOVER DATASET	
PROJECTION: GEOGRAPHIC DATUM: WGS84	DATE: 28/2/2013 PR: 23-1732
PROJECT: LONDANI IPP 5100 CLIENT: LONDANI EDAL (PTY) LTD	
TEL: 012 907 0583 EMAIL: info@edal.co.za www.edal.co.za	



Legend

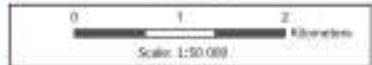
- Mining Right Boundary

Rivers and Streams

- ~ Perennial River
- ~ Non-Perennial

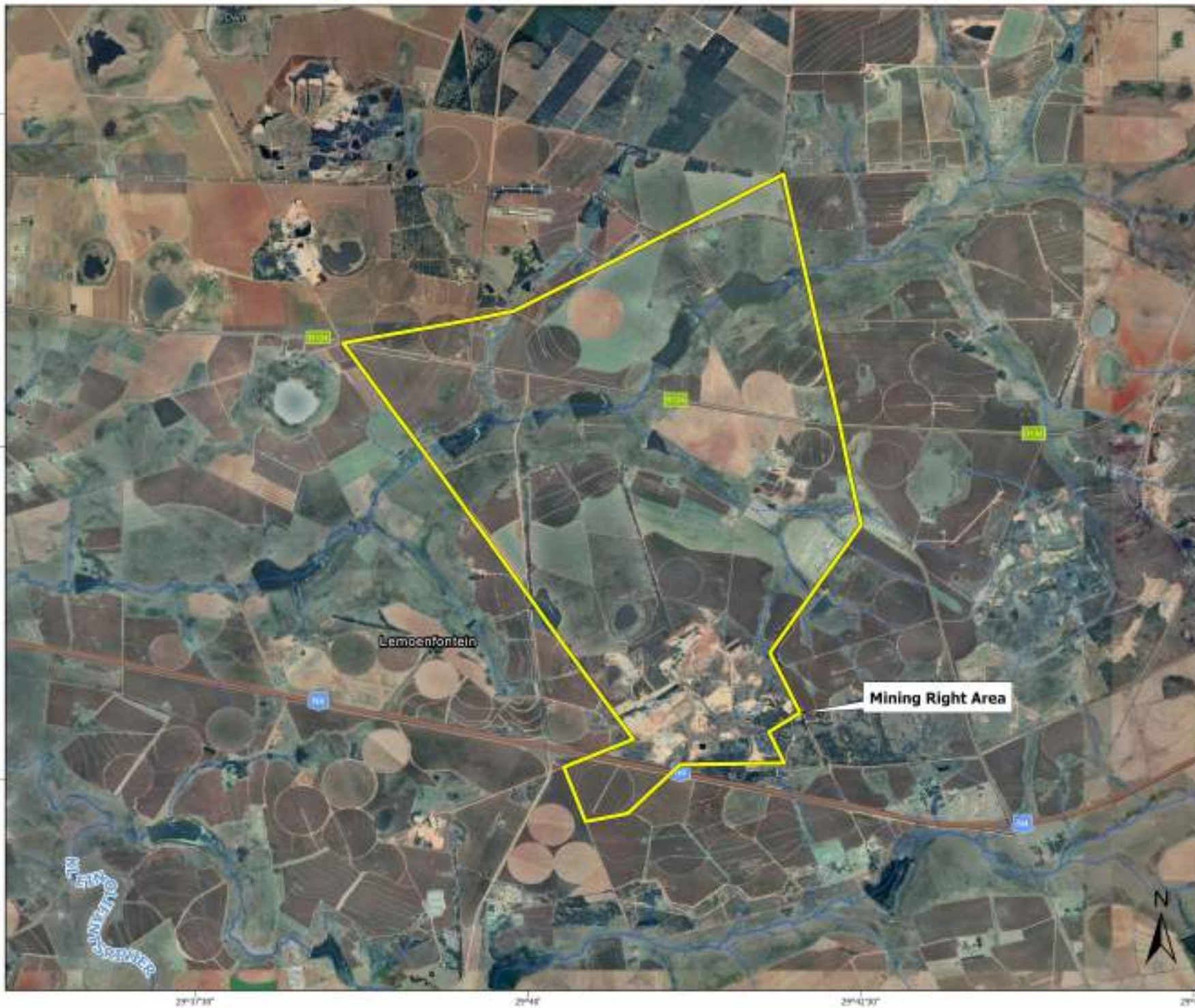
Elevation (mamsl)

- 1 501 - 1 530
- 1 531 - 1 560
- 1 561 - 1 590
- 1 591 - 1 620
- 1 621 - 1 650
- 1 651 - 1 680
- 1 681 - 1 710






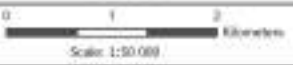
DATA SOURCE: R. RAJDS.0504	
PROJECTION: GEOGRAPHIC DATUM: WGS84	DATE: 28/2/2011 PR: 21-1712
PROJECT: LONDON SP5 5100 CLIENT: LONDON EDAL (PTY) LTD	
Tel: 012 807 0583 Email: info@ecodan.co.za www.ecodan.co.za	
	





Legend

-  Mining Right Boundary
- Rivers and Streams**
-  Perennial River
-  Non-Perennial



<small>DATA SOURCES: MOBILE EARTH™ MAPPING SERVICE: 302</small>	
<small>PROJECTION: GEOGRAPHIC DATUM: WGS84</small>	<small>DATE: 28/2/2018 PR: 23-1732</small>
<small>PROJECT: LONDANI TPP 5103 CLIENT: LONDANI EDAL (PTY) LTD</small>	
<small>TEL: 012 907 0583 EMAIL: info@ecolink.co.za WWW.ECOLINK.CO.ZA</small>	
	



Legend

- Mining Right Boundary
- NFEPA Wetlands 2011

Rivers and Streams

- Perennial River
- Non-Perennial



0 1 2 Kilometers
Scale: 1:50,000

DATA SOURCES:
DOUGLAS EARTH; HARPER SERVICE; 2011 NFEPA WETLANDS

PROJECT/GEOGRAPHIC EXTENT: WGG04	DATE: 28/2/04/01 PN: 23-1732
PROJECT: LONDANI PP 502 CLIENT: LONDANI EDAL (PTY) LTD	
TEL: 012 907 0583 EMAIL: info@edal.co.za www.edal.co.za	



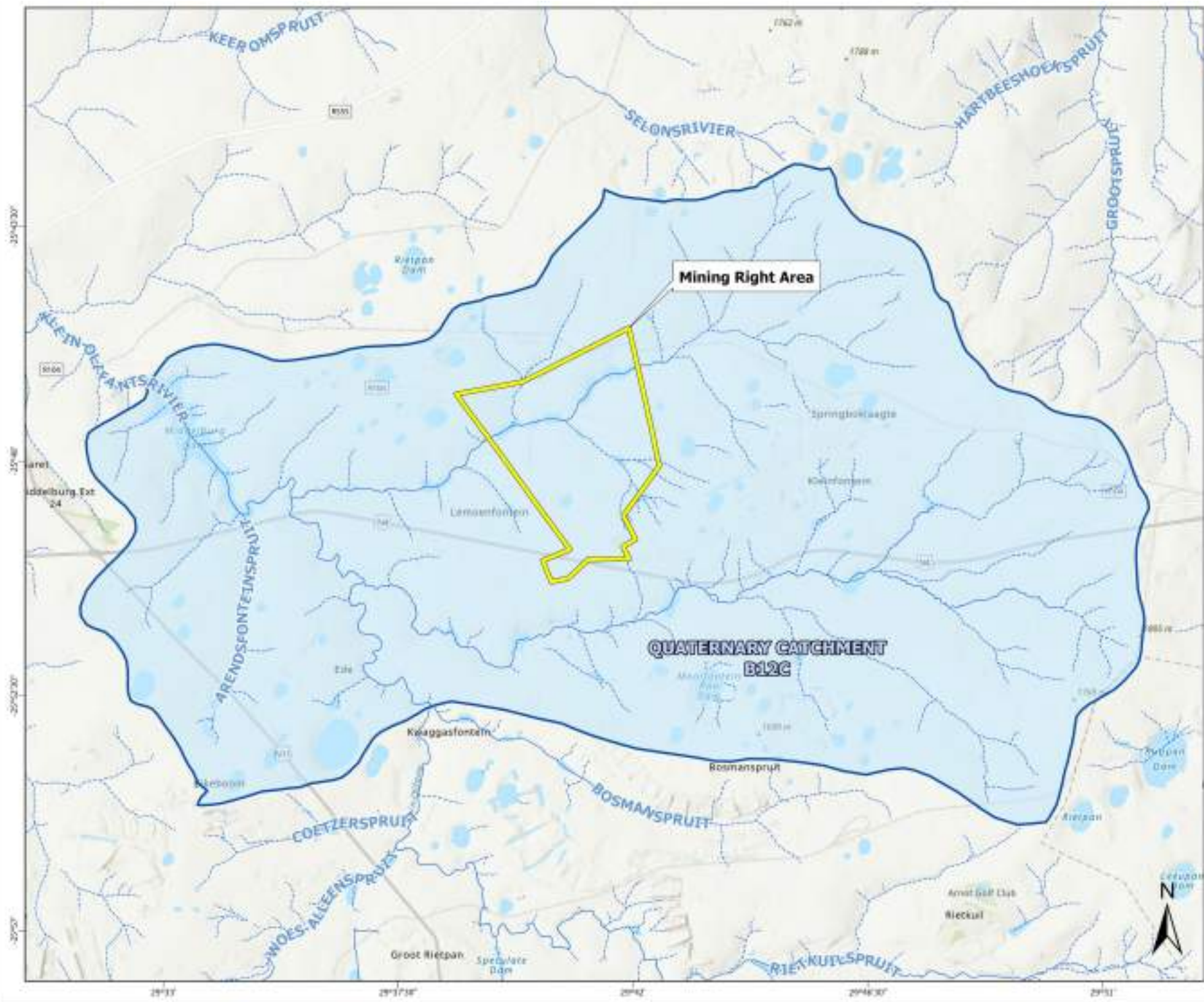
Legend

- Mining Right Boundary
- Rivers and Streams**
 - Perennial River
 - Non-Perennial
- Biodiversity Sector Plan**
 - Critical Biodiversity Area
 - Heavily or moderately modified
 - Other Natural Areas



DATA SOURCES: GOOGLE EARTH™; MAPBOX SERVICE; SCS2 2015 KWAZULU NATAL BIODIVERSITY SECTOR PLAN	
PROJECTION: GEOGRAPHIC DATUM: WGS84	DATE: 28/02/2018 PR: 20-1732
PROJECT: LONDANI EP S20 CLIENT: LONDANI COAL (PTY) LTD	
TEL: 012 807 0001 EMAIL: info@ecofirst.co.za www.ecofirst.co.za	



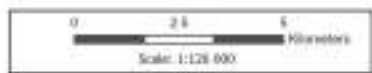


Legend

- Mining Right Boundary
- Quaternary Catchment

Rivers and Streams

- Perennial River
- Non-Perennial



DATA SOURCE: GOOGLE EARTH™; MAPING (88000-300) DWAF (QUATERNARY CATCHMENTS)	
PROJECTION: GEODESIC DATUM: WGS84	DATE: 2022/04/01 PR: 22-173
PROJECT: LONDALE IFF 500 CLIENT: LONDALE EDAL (PTY) LTD	
TEL: 012 807 5305 EMAIL: info@edal.co.za WWW: www.edal.co.za	





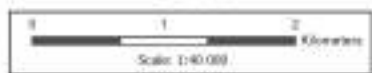
Legend

- Mining Right Boundary
- Farm Portions
- Parent Farm

Rivers and Streams

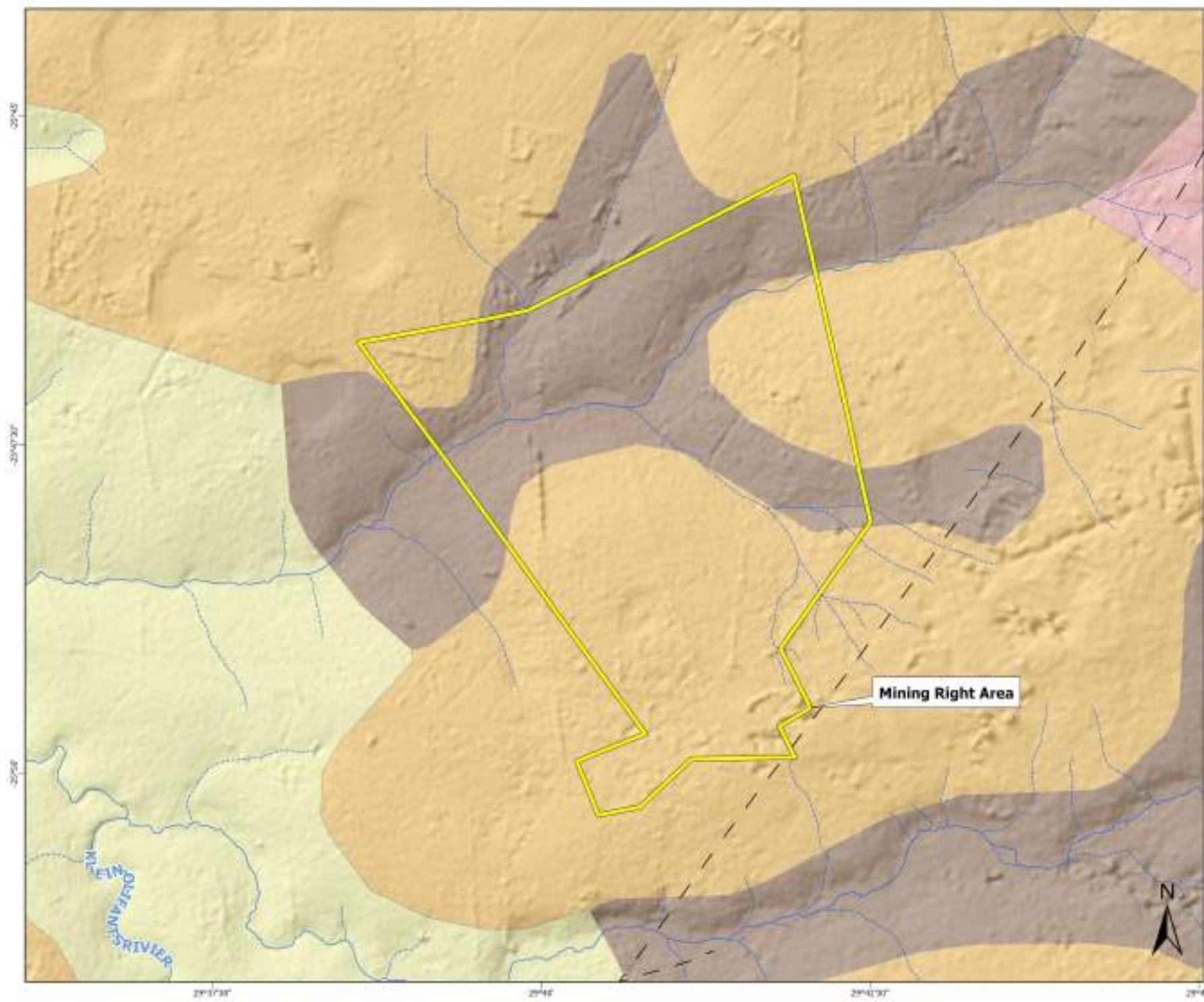
- Perennial River
- Non-Perennial

Mining Right Area



DATA SOURCES: GOOGLE EARTH™ MAPING SERVICE: 502 2011 CROP SURVEY GENERAL CADASTRAL DATA	
PROJECTION: GEOGRAPHIC DATUM: WGS84	DATE: 2022/04/01 PR: 23-1732
PROJECT: LONDAWI IPP 5102 CLIENT: LONDAWI EDAL (PTY) LTD	
Tel: 012 907 0583 Email: info@londawip.com www.londawip.com	





Legend

- Mining Right Boundary

Rivers and Streams

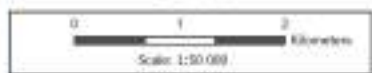
- Perennial River
- Non-Perennial

Lithology

- Fine- to coarse-grained sandstone, shale, coal seams
- Homogenous granophyre (predominant), granophyric granite, granophyre porphyry, pseudogranophyre
- Red porphyritic rhyolite
- Rhyolite with subordinate pyroclastic rocks and minor sandstone

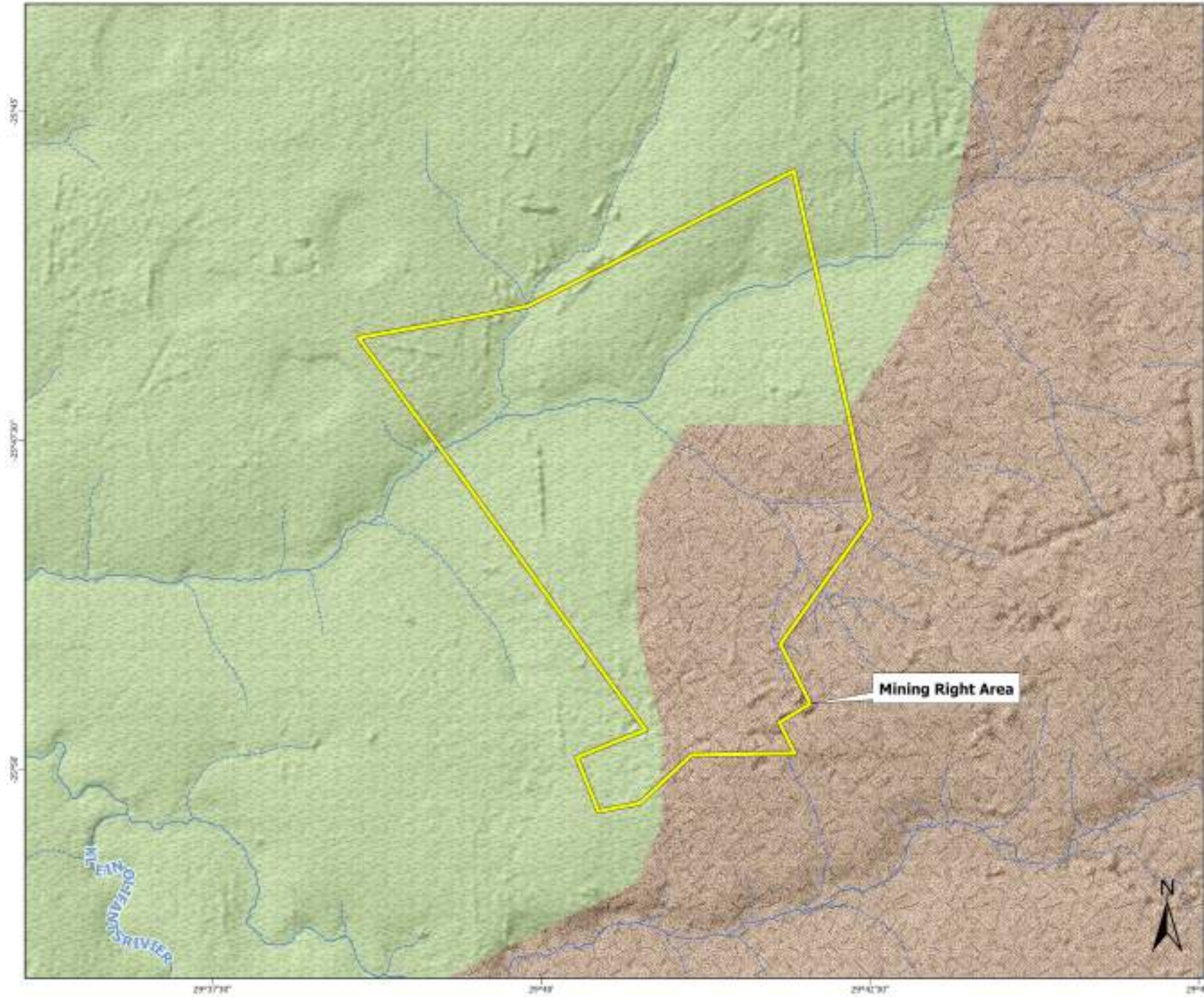
Structural Lines

- Lineament, Undifferentiated



<small>DATA SOURCES: GOOGLE EARTH™; MAPINFO SERVICE: 302 BSA 1:1 RELIUM GEOLOGY</small>	
<small>PROJECTION: GEOGRAPHIC DATUM: WGS84</small>	<small>DATE: 28/2/2018 PR: 23-1732</small>
<small>PROJECT: LONDONI PP 5103 CLIENT: LONDONI EDAL (PTY) LTD</small>	
<small>TEL: 011 267 0583 EMAIL: info@edal.co.za www.edal.co.za</small>	
	





Legend

- Mining Right Boundary

Rivers and Streams

- Perennial River
- Non-Perennial

National Vegetation Type

- Eastern Highveld Grassland
- Rand Highveld Grassland



<small>DATA SOURCES: GOOGLE EARTH™; MAPBOX SERVICE; 2021 2018 NATIONAL VEGETATION MAP</small>	
<small>PROJECTION: GEOGRAPHIC DATUM: WGS84</small>	<small>DATE: 28/02/2021 PR: 21-1732</small>
<small>PROJECT: LONDANI RP 520 CLIENT: LONDANI COAL (PTY) LTD</small>	
<small>TEL: 012 807 0281 EMAIL: info@londani.co.za www.londanicoal.co.za</small>	



30°45'
30°30'
30°15'

29°37'30" 29°40" 29°42'30" 29°45"



NDANGANENI

LAND USE

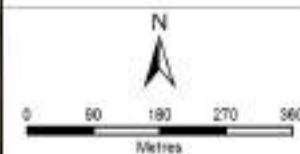
Legend

Site Boundary

Land Use

Cultivation

Grassland



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011 799 1000 | 011 799 1001 | 011 799 1002

011 799 1003 | 011 799 1004 | 011 799 1005

011 799 1006 | 011 799 1007 | 011 799 1008

011 799 1009 | 011 799 1010 | 011 799 1011

DATA SOURCE: SPATIAL DATA SOURCE: FOR: MPAAR, EARTHQUAKE RESISTANCE, AVIATION, COMMUNITY, EMBL, GARDEN, BEEHIVE, HIGH WIND, AND OTHER

PROJECTION: TRANSVERSE MERIDIAN

PROJECT TITLE

INDUSTRIAL ZONE

SCALE: 1:1000

DATE: 15/11/15

DATE: 15/11/15

POWERED BY: WSP

PROJECT NO: 4194511

REV: 001


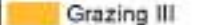

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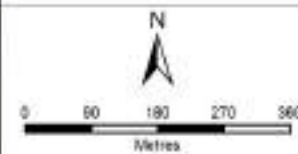
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NDANGANENI
LAND
CAPABILITY

Legend

-  Site Boundary
- Land Capability**
-  Grazing III
-  Wilderness IV



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Tel: +27 (0) 11 481 1111 | Fax: +27 (0) 11 481 1112 | Email: info@wspenv.com

DATA SOURCE
SPATIAL DATA SOURCE: GIS FOR RURAL
LIVING COMMUNITIES, AFRICA 2008
COMMUNITY
EERI, GARIBI, SEBICO, HOVA USDC AND OTHER
PROJECTION: TRANSVERSE MERIDIAN

PROJECT TITLE	
DRAMA SHIRE BOLD	
SCALE : 1:1000	DRAWN BY : TS
DATE : 2023/01	POWERED BY : WSP
FIGURE NO.	PROJECT NO. 4194511 001

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NDANGANENI

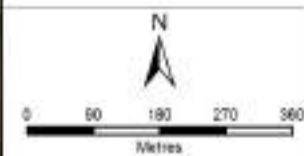
SOIL DEPTHS

Legend

Site Boundary

Soil Depths

- 0 - 2 cm
- 10 - 25 cm
- 25 - 50 cm



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DATA SOURCE
 SPATIAL DATA SOURCE: SOUTH AFRICAN
 NATIONAL BUREAU OF SURVEYING
 COMMUNITY
 DATA SOURCE: GISCO, HIGH RESOLUTION DATA
 PROJECTION: UTM/ETRS89/31S

PROJECT TITLE	
NDANGANENI SOILS	
SCALE : 1:1000	DRAWN BY : TS
DATE : 2023/01/10	POWERED BY : WSP
FIGURE NO.	PROJECT NO. 4194511 REV

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NDANGANENI
SOIL
TYPES

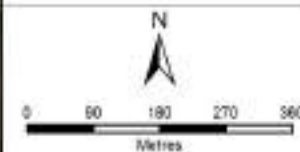
Legend

Site Boundary

Soil Types

Clovelly

Mispah



DISCLAIMER

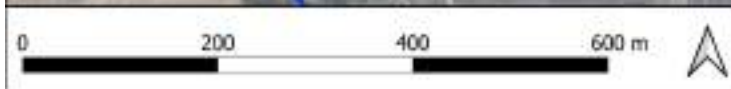
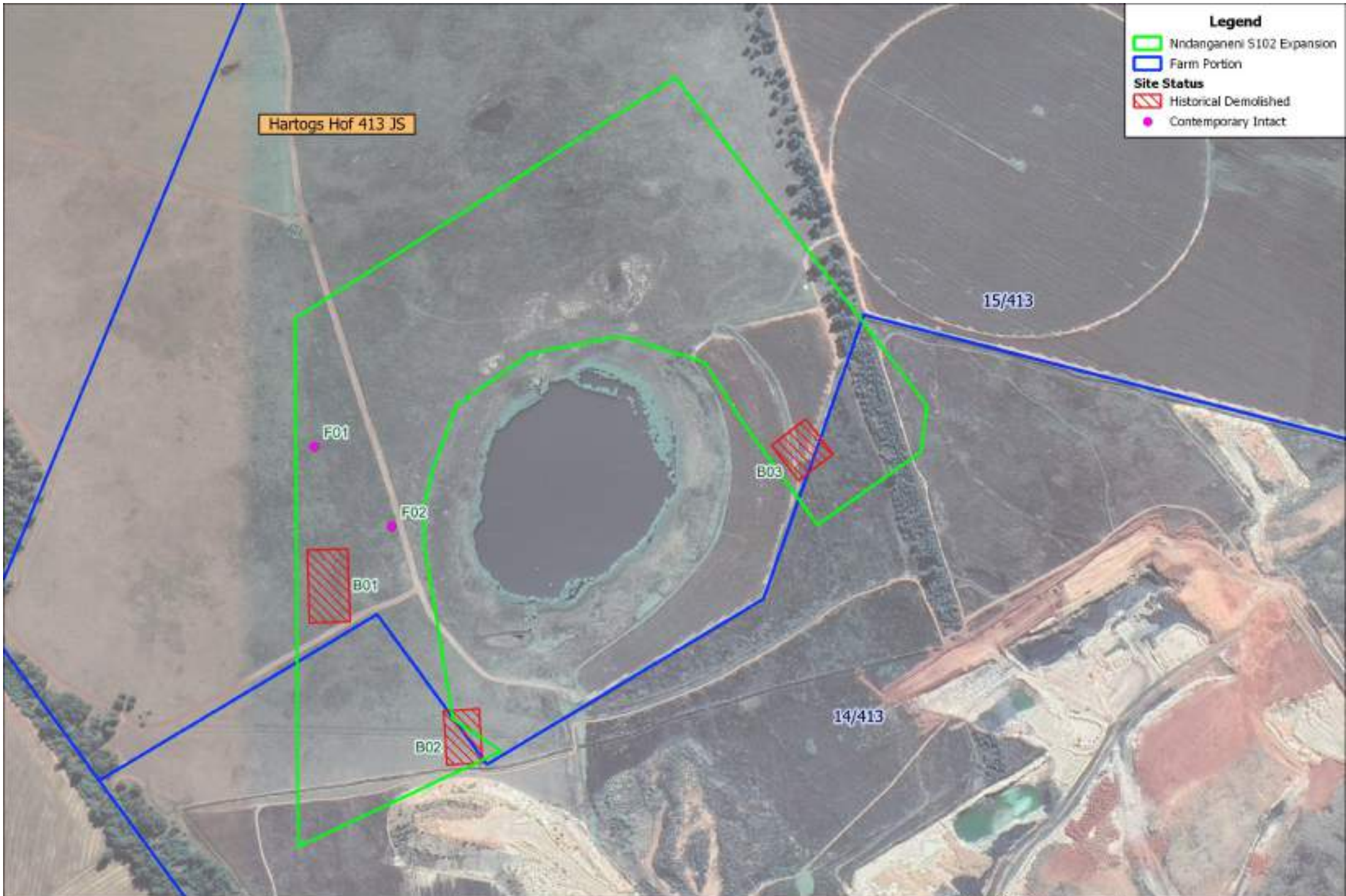
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DATA SOURCE
SOURCE: LANDSCAPE SOURCE FOR ANIMAL
LUTHERBURGH COMMUNITY, AVETRE COMMUNITY
COMMUNITY
DATE: 2018-08-08, 2018-08-08, 2018-08-08
PROJECTION: TRANSVERSE MERIDIAN

PROJECT TITLE	
DRAMA SHIRE SOILS	
SCALE : 1:10000	DRAWN BY : TS
DATE : 2018/08/08	POWERED BY : WSP
FIGURE NO.	PROJECT NO. 4194511 - 001
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Ndanganeni Colliery
Site Status

Author: T. Coetzee
Version: 01
Date: 28/10/2022

Agri Civils
Geo-Tech & Heritage