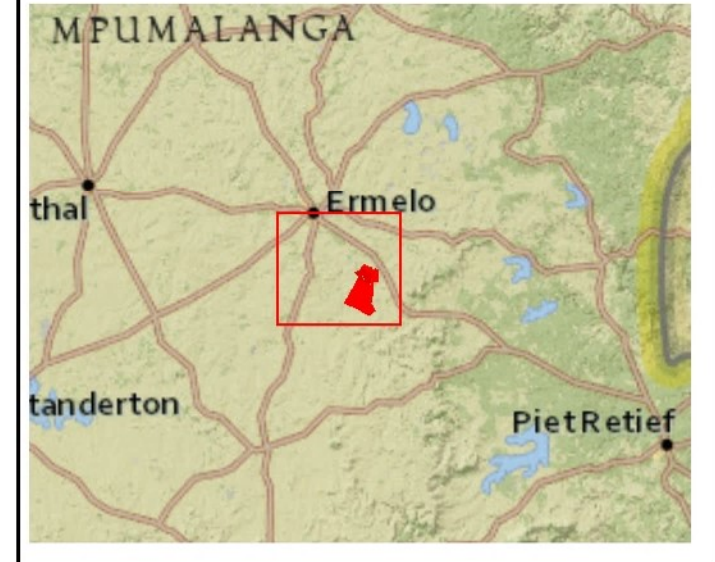


Mooiplaats Locality

1299 GSW Mooiplaats

Legend

- Original MR Portions (MP 30/5/1/2/68MR)
- S102 PR676 Portions
- S102 PR677 Portions
- Mooiplaats Extended MR
- Vunene MR Property
- Roads
- Railway
- Transmission Lines
- Rivers



Data Sources:
 CSG; ESRI; ENPAT; WR2102
 Coord System: GK CM31 HBK94
 Projection: Gauss Kruger
 Datum: Hartebeesthoek 1994
 Ref: Locality Topo

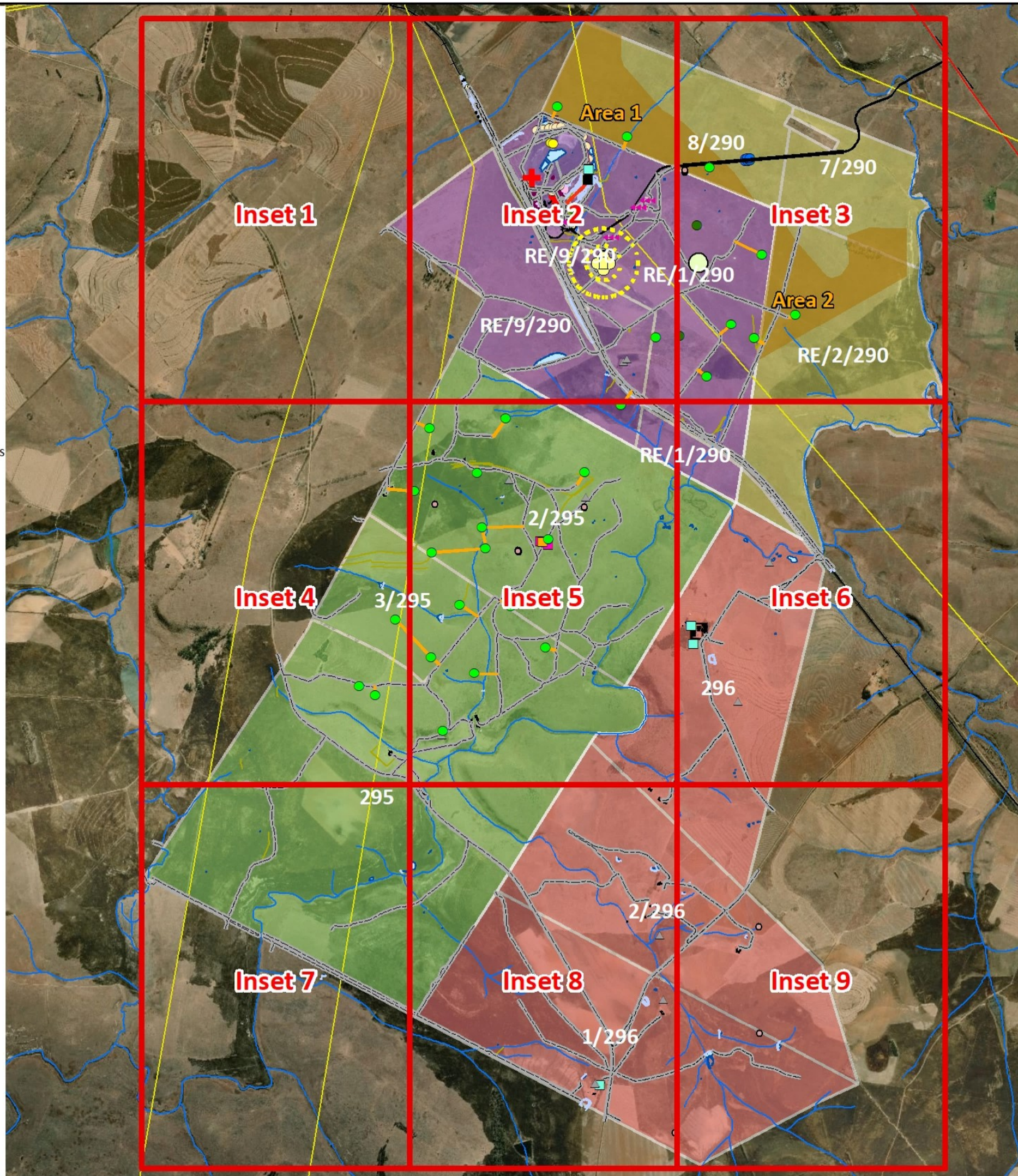
Date: 2020/05/22
 EIMS Ref: 1299
 Compiled: PH
 Reviewed: CM
 Approved: LW



Existing Infrastructure

- ▲ Ruins
- Graves
- Sump
- Boxcut
- ⊕ Magazine
- ⋯ Magazine Radius
- Mining Restrictions
- ⚡ Transformers
- Water Tank
- Main Drain
- Steel Pipes
- Haul Roads/ Existing Farm Routes
- Drain Holes
- Discard Dump
- Bridge
- Concrete
- Culverts
- Embankment
- 🛢 Fuel Tanks
- Furrow
- Buildings/ Infrastructure
- ⚙ Pipe in Concrete
- Pollution Control Dam
- Stockpiles
- Substation
- Tar Road
- Trench
- Water BHs
- Surface Pump Lines
- Coal Stockpiles
- Dams

0 1 2 Km
 Scale: 1:43 194

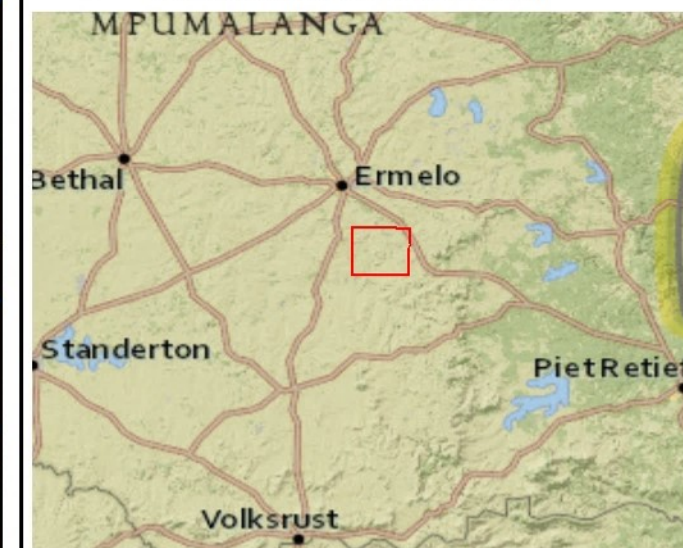


Infrastructure Inset Map Overview

GSW Mooiplaats S102

Legend

- Inset Grid
- Transmission Lines
- Railway
- Roads
- Rivers/ Streams
- Vunene MR Property
- Mooiplaats Extended MR
- S102 PR677 Portions
- S102 PR676 Portions
- Original MR Portions
- Planned Infrastructure
- Planned Rescue Bay BHs
- Planned Rescue Bay
- Planned Substation
- Planned Ventilation Shafts
- Planned Access Routes
- Planned Explosive Destruction Bay



Data Sources:

CSG; ESRI; ENPAT
 Coord System: LO31 TM WGS84
 Projection: Transverse Mercator
 Datum: WGS 1984
 Ref: Infrastructure Inset Map Overview

Date: 2020/05/22

Compiled: PH
 Reviewed: SvdG
 Approved: LW



Existing Infrastructure

- ▲ Ruins
- Graves
- Sump
- Boxcut
- ⊕ Magazine
- ⋯ Magazine Radius
- Mining Restrictions
- ⚡ Transformers
- Water Tank
- Main Drain
- Steel Pipes
- Haul Roads/ Existing Farm Routes
- Drain Holes
- Discard Dump
- Bridge
- Concrete
- Culverts
- Embankment
- ⛛ Fuel Tanks
- Furrow
- Buildings/ Infrastructure
- ⚙ Pipe in Concrete
- Pollution Control Dam
- Stockpiles
- Substation
- Tar Road
- Trench
- Water BHs
- Surface Pump Lines
- Coal Stockpiles
- Dams

0 0.35 0.7 Km
Scale: 1:15 496

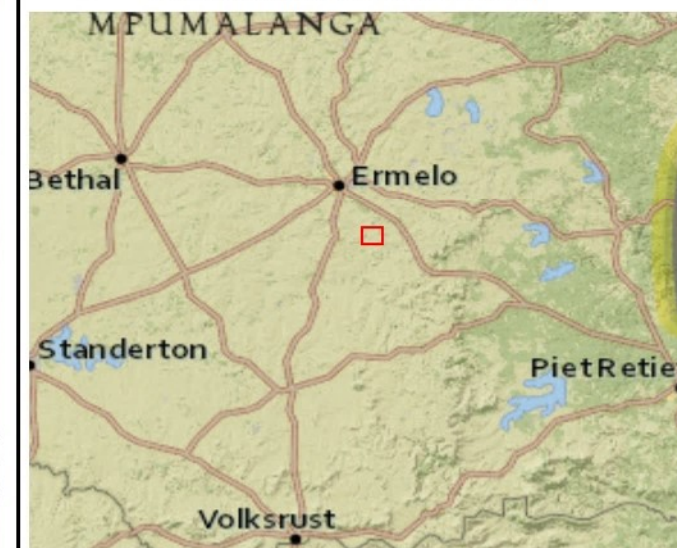


Infrastructure Layout Map- Inset 1

GSW Mooiplaats S102

Legend

- | | |
|-----------------------------------|------------------------|
| Transmission Lines | Vunene MR Property |
| Railway | Mooiplaats Extended MR |
| Roads | S102 PR677 Portions |
| Rivers/ Streams | S102 PR676 Portions |
| Planned Infrastructure | |
| Planned Rescue Bay BHs | Original MR Portions |
| Planned Rescue Bay | |
| Planned Substation | |
| Planned Ventilation Shafts | |
| Planned Access Routes | |
| Planned Explosive Destruction Bay | |



Data Sources:

CSG; ESRI; ENPAT
Coord System: LO31 TM WGS84
Projection: Transverse Mercator
Datum: WGS 1984
Ref: Infrastructure Inset Map Overview

Date: 2020/05/22

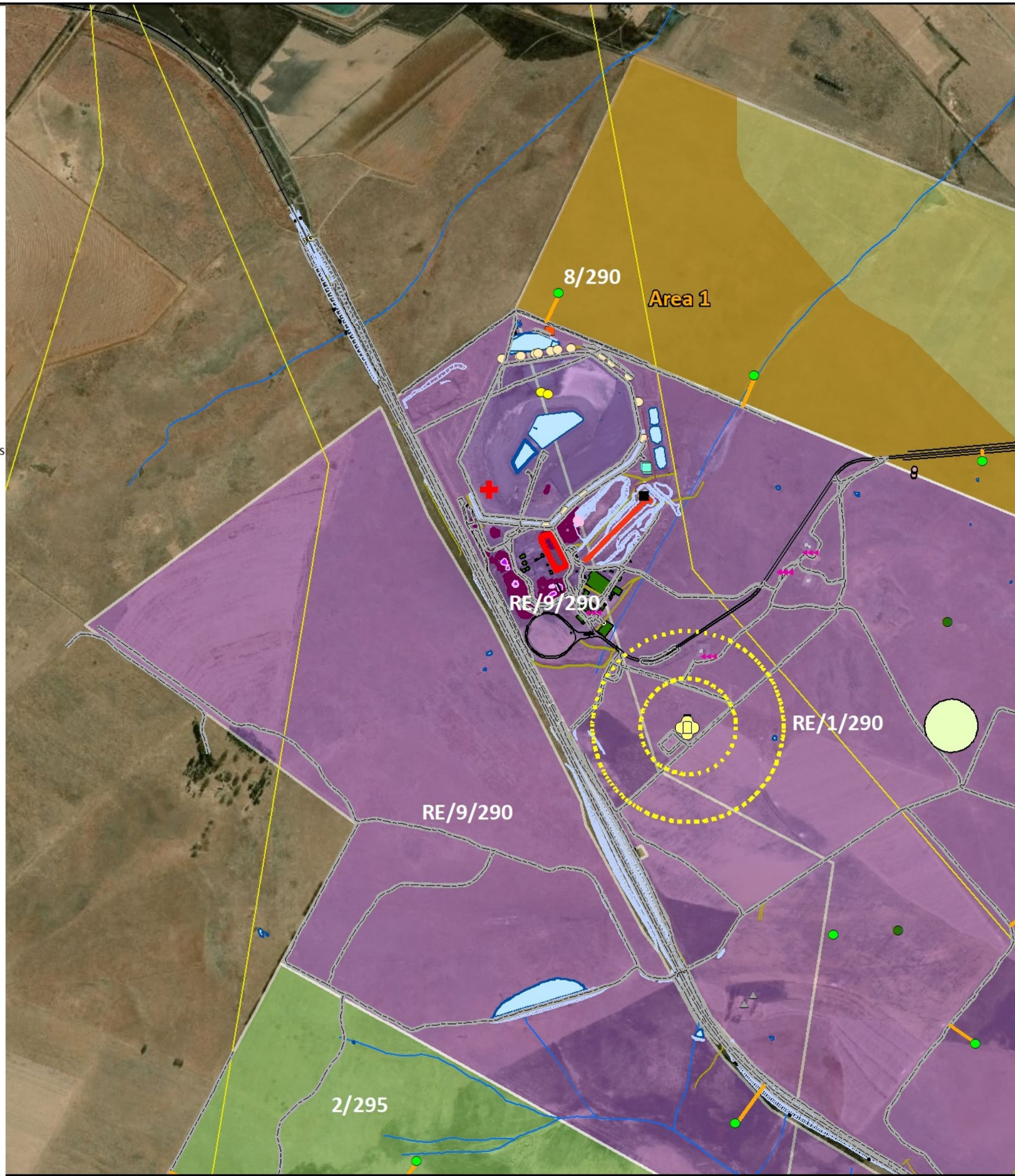
Compiled: PH
Reviewed: SvdG
Approved: LW



Existing Infrastructure

- ▲ Ruins
- Graves
- Sump
- Boxcut
- ⊕ Magazine
- ⋯ Magazine Radius
- Mining Restrictions
- ⚡ Transformers
- Water Tank
- Main Drain
- Steel Pipes
- Haul Roads/ Existing Farm Routes
- Drain Holes
- Discard Dump
- Bridge
- Concrete
- Culverts
- Embankment
- ⛛ Fuel Tanks
- Furrow
- Buildings/ Infrastructure
- ⚙ Pipe in Concrete
- Pollution Control Dam
- Stockpiles
- Substation
- Tar Road
- Trench
- Water BHs
- Surface Pump Lines
- Coal Stockpiles
- Dams

0 0.35 0.7 Km
 Scale: 1:15 496

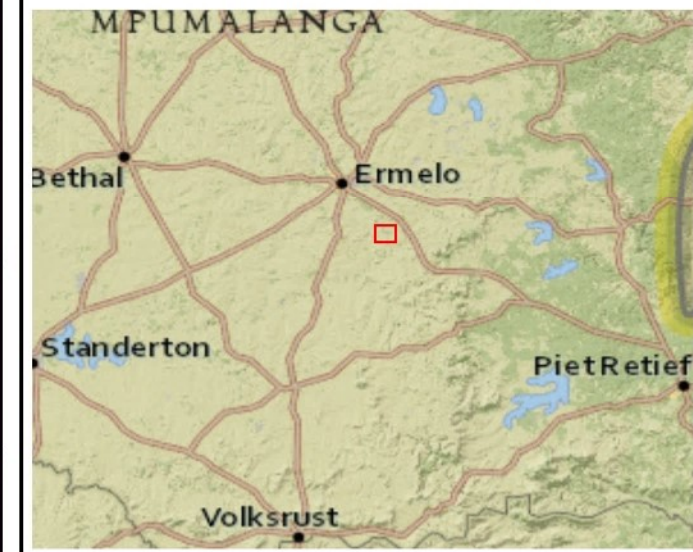


Infrastructure Layout Map- Inset 2

GSW Mooiplaats S102

Legend

- Transmission Lines
- Railway
- Roads
- Rivers/ Streams
- ⊕ Vunene MR Property
- ⊕ Mooiplaats Extended MR
- ⊕ S102 PR677 Portions
- ⊕ S102 PR676 Portions
- ⊕ Original MR Portions
- Planned Rescue Bay BHs
- Planned Rescue Bay
- Planned Substation
- Planned Ventilation Shafts
- Planned Access Routes
- ⊕ Planned Explosive Destruction Bay



Data Sources:

CSG; ESRI; ENPAT
 Coord System: LO31 TM WGS84
 Projection: Transverse Mercator
 Datum: WGS 1984
 Ref: Infrastructure Inset Map Overview

Date: 2020/05/22

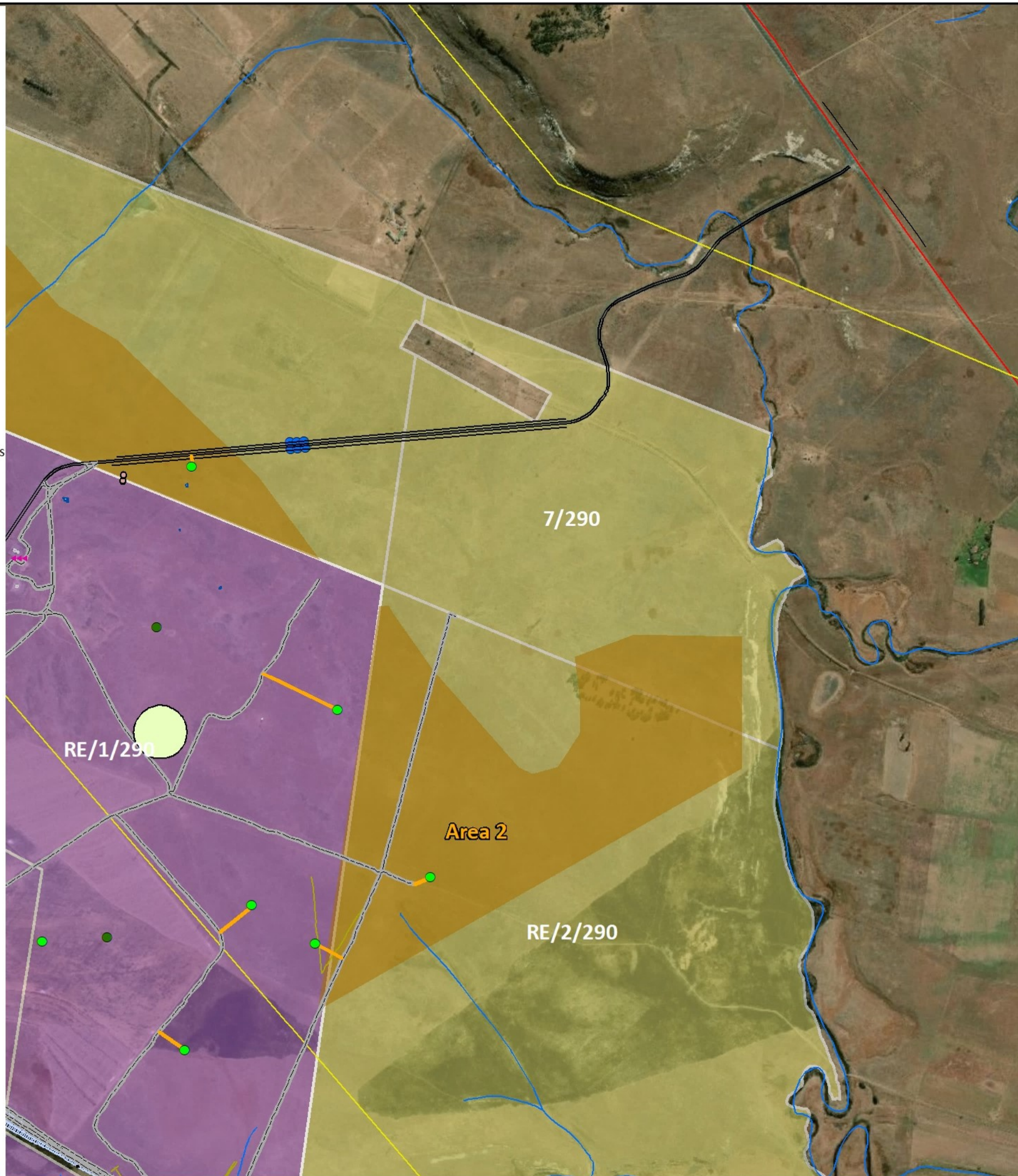
Compiled: PH
 Reviewed: SvdG
 Approved: LW



Existing Infrastructure

- ▲ Ruins
- Graves
- Sump
- Boxcut
- ⊕ Magazine
- ⋯ Magazine Radius
- Mining Restrictions
- ⚡ Transformers
- Water Tank
- Main Drain
- Steel Pipes
- Haul Roads/ Existing Farm Routes
- Drain Holes
- Discard Dump
- Bridge
- Concrete
- Culverts
- Embankment
- ⛛ Fuel Tanks
- Furrow
- Buildings/ Infrastructure
- ⚙ Pipe in Concrete
- Pollution Control Dam
- Stockpiles
- Substation
- Tar Road
- Trench
- Water BHs
- Surface Pump Lines
- Coal Stockpiles
- Dams

0 0.35 0.7 Km
Scale: 1:15 496

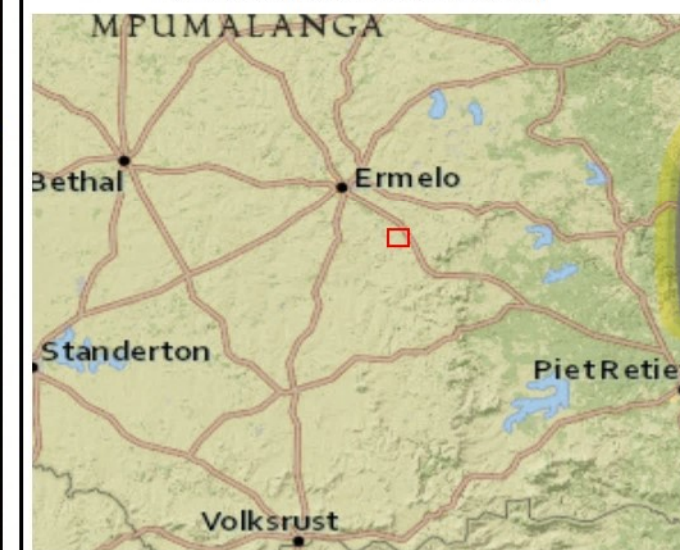


Infrastructure Layout Map- Inset 3

GSW Mooiplaats S102

Legend

- Transmission Lines
- Railway
- Roads
- Rivers/ Streams
- ⊕ Vunene MR Property
- ⊕ Mooiplaats Extended MR
- ⊕ S102 PR677 Portions
- ⊕ S102 PR676 Portions
- ⊕ Original MR Portions
- Planned Rescue Bay BHs
- Planned Rescue Bay
- Planned Substation
- Planned Ventilation Shafts
- Planned Access Routes
- ⊕ Planned Explosive Destruction Bay



Data Sources:
CSG; ESRI; ENPAT
Coord System: LO31 TM WGS84
Projection: Transverse Mercator
Datum: WGS 1984
Ref: Infrastructure Inset Map Overview

Date: 2020/05/22

Compiled: PH
Reviewed: SvdG
Approved: LW



Existing Infrastructure

- ▲ Ruins
- Graves
- Sump
- Boxcut
- ⊕ Magazine
- ⋯ Magazine Radius
- Mining Restrictions
- ⚡ Transformers
- Water Tank
- Main Drain
- Steel Pipes
- Haul Roads/ Existing Farm Routes
- Drain Holes
- Discard Dump
- Bridge
- Concrete
- Culverts
- Embankment
- ⛛ Fuel Tanks
- Furrow
- Buildings/ Infrastructure
- ⚙ Pipe in Concrete
- Pollution Control Dam
- Stockpiles
- Substation
- Tar Road
- Trench
- Water BHs
- Surface Pump Lines
- Coal Stockpiles
- Dams

0 0.35 0.7 Km
Scale: 1:15 496

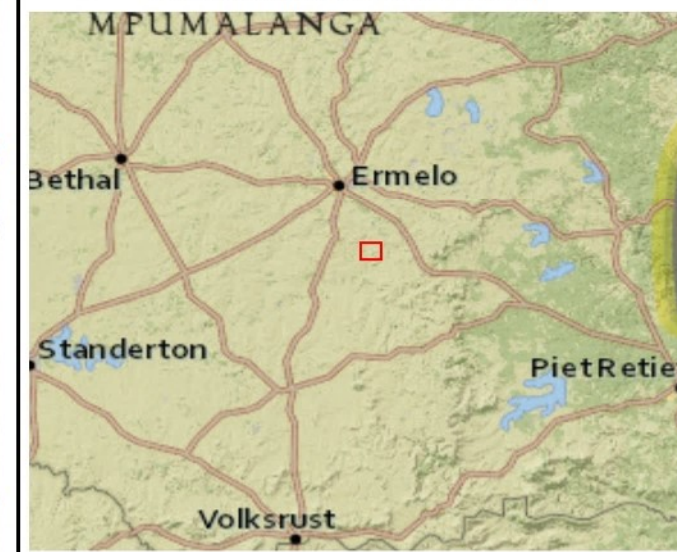


Infrastructure Layout Map- Inset 4

GSW Mooiplaats S102

Legend

- | | |
|-------------------------------------|--------------------------|
| — Transmission Lines | ⊕ Vunene MR Property |
| — Railway | ⊕ Mooiplaats Extended MR |
| — Roads | ⊕ S102 PR677 Portions |
| — Rivers/ Streams | ⊕ S102 PR676 Portions |
| ● Planned Rescue Bay BHS | ⊕ Original MR Portions |
| ● Planned Rescue Bay | |
| ■ Planned Substation | |
| ■ Planned Ventilation Shafts | |
| — Planned Access Routes | |
| ⊕ Planned Explosive Destruction Bay | |



Data Sources:

CSG; ESRI; ENPAT
Coord System: LO31 TM WGS84
Projection: Transverse Mercator
Datum: WGS 1984
Ref: Infrastructure Inset Map Overview

Date: 2020/05/22

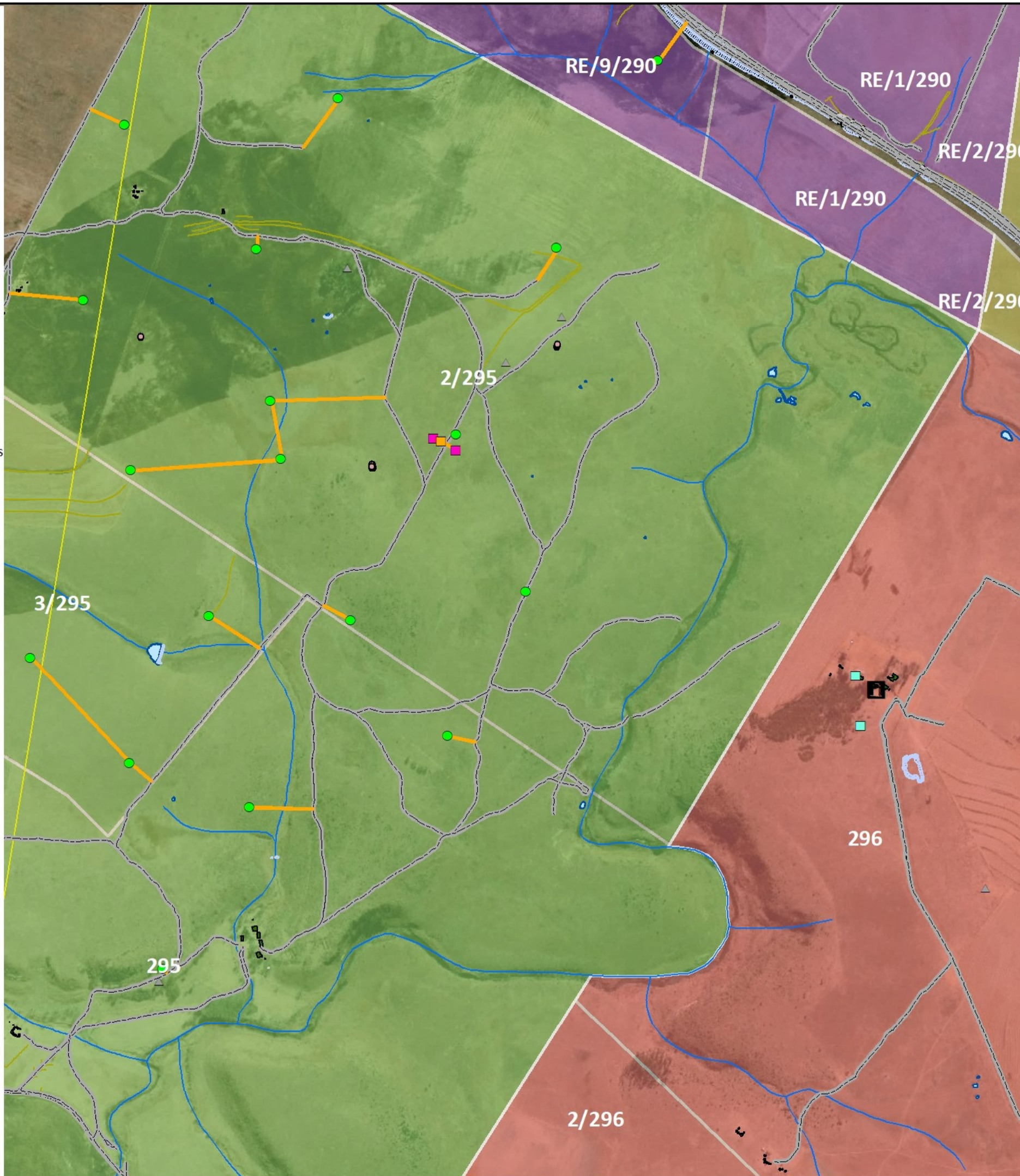
Compiled: PH
Reviewed: SvdG
Approved: LW



Existing Infrastructure

- ▲ Ruins
- Graves
- Sump
- Boxcut
- ⊕ Magazine
- ⋯ Magazine Radius
- Mining Restrictions
- ⚡ Transformers
- Water Tank
- Main Drain
- Steel Pipes
- Haul Roads/ Existing Farm Routes
- Drain Holes
- Discard Dump
- Bridge
- Concrete
- Culverts
- Embankment
- ⛛ Fuel Tanks
- Furrow
- Buildings/ Infrastructure
- ⚙ Pipe in Concrete
- Pollution Control Dam
- Stockpiles
- Substation
- Tar Road
- Trench
- Water BHs
- Surface Pump Lines
- Coal Stockpiles
- Dams

0 0.35 0.7 Km
Scale: 1:15 496

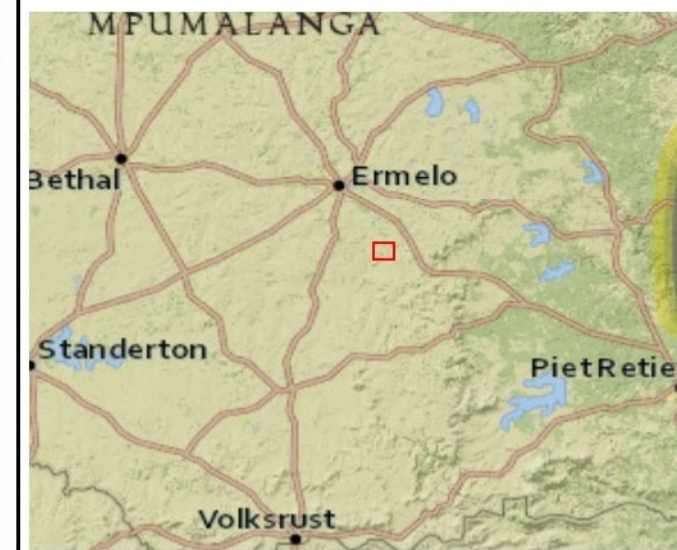


Infrastructure Layout Map- Inset 5

GSW Mooiplaats S102

Legend

- Transmission Lines
 - Railway
 - Roads
 - Rivers/ Streams
 - Vunene MR Property
 - Mooiplaats Extended MR
 - S102 PR677 Portions
 - S102 PR676 Portions
 - Original MR Portions
- Planned Infrastructure**
- Planned Rescue Bay BHs
 - Planned Rescue Bay
 - Planned Substation
 - Planned Ventilation Shafts
 - Planned Access Routes
 - Planned Explosive Destruction Bay



Data Sources:

CSG; ESRI; ENPAT
Coord System: LO31 TM WGS84
Projection: Transverse Mercator
Datum: WGS 1984
Ref: Infrastructure Inset Map Overview

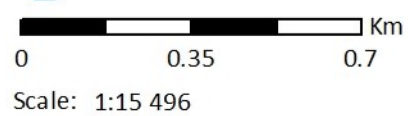
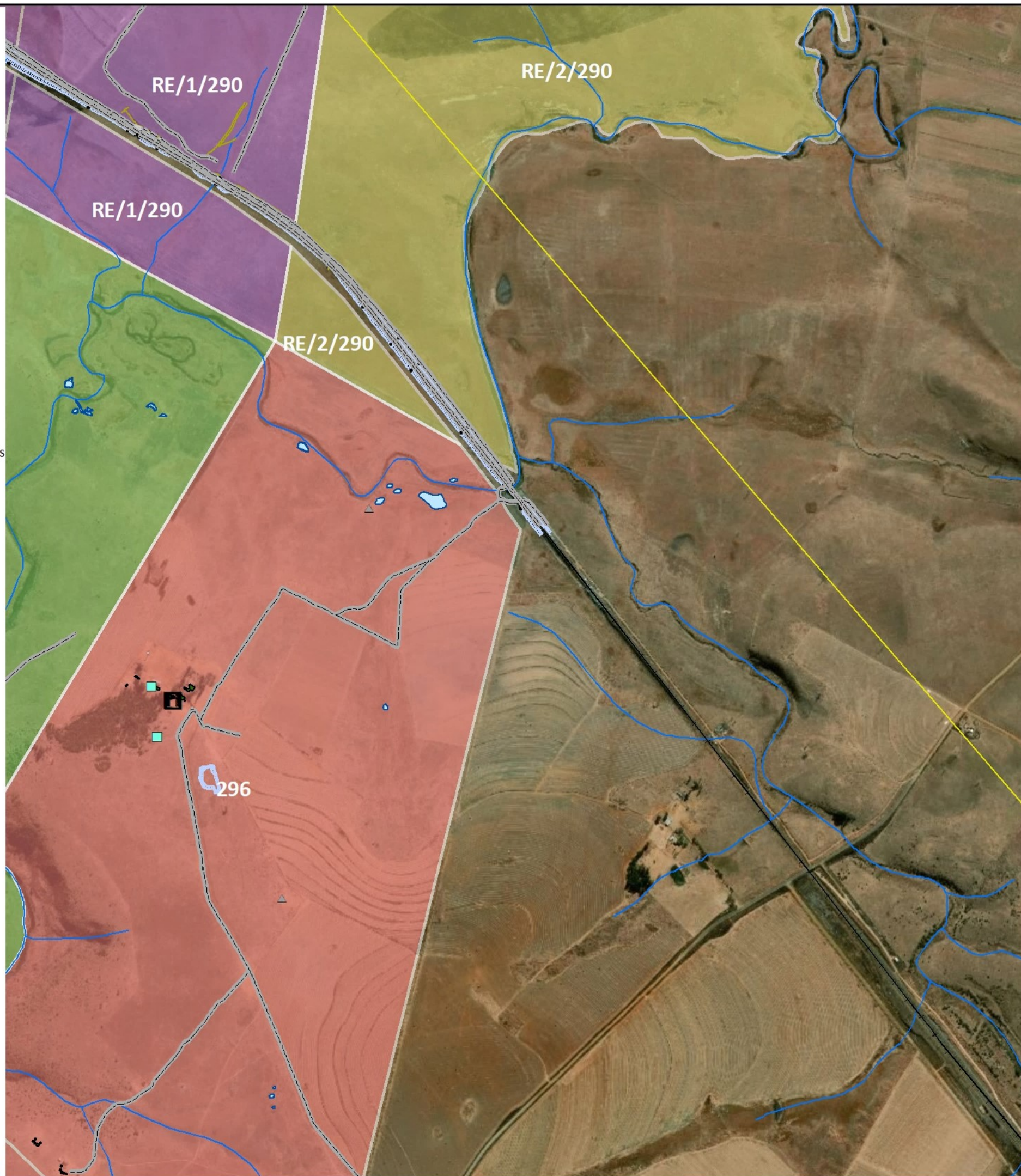
Date: 2020/05/22

Compiled: PH
Reviewed: SvdG
Approved: LW



Existing Infrastructure

- ▲ Ruins
- Graves
- Sump
- Boxcut
- ⊕ Magazine
- ⋯ Magazine Radius
- Mining Restrictions
- ⚡ Transformers
- Water Tank
- Main Drain
- Steel Pipes
- Haul Roads/ Existing Farm Routes
- Drain Holes
- Discard Dump
- Bridge
- Concrete
- Culverts
- Embankment
- ⛛ Fuel Tanks
- Furrow
- Buildings/ Infrastructure
- ⚙ Pipe in Concrete
- Pollution Control Dam
- Stockpiles
- Substation
- Tar Road
- Trench
- Water BHs
- Surface Pump Lines
- Coal Stockpiles
- Dams

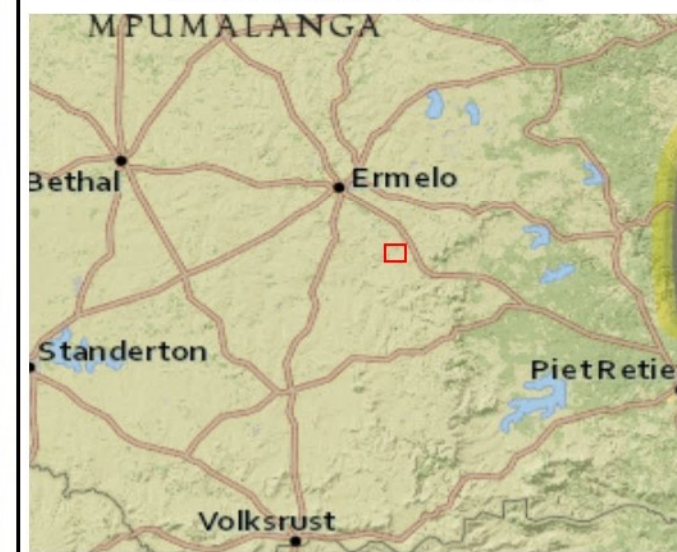


Infrastructure Layout Map- Inset 6

GSW Mooiplaats S102

Legend

- Transmission Lines
- Railway
- Roads
- Rivers/ Streams
- Vunene MR Property
- Mooiplaats Extended MR
- S102 PR677 Portions
- S102 PR676 Portions
- Original MR Portions
- Planned Rescue Bay BHs
- Planned Rescue Bay
- Planned Substation
- Planned Ventilation Shafts
- Planned Access Routes
- Planned Explosive Destruction Bay



Data Sources:

CSG; ESRI; ENPAT
Coord System: LO31 TM WGS84
Projection: Transverse Mercator
Datum: WGS 1984
Ref: Infrastructure Inset Map Overview

Date: 2020/05/22

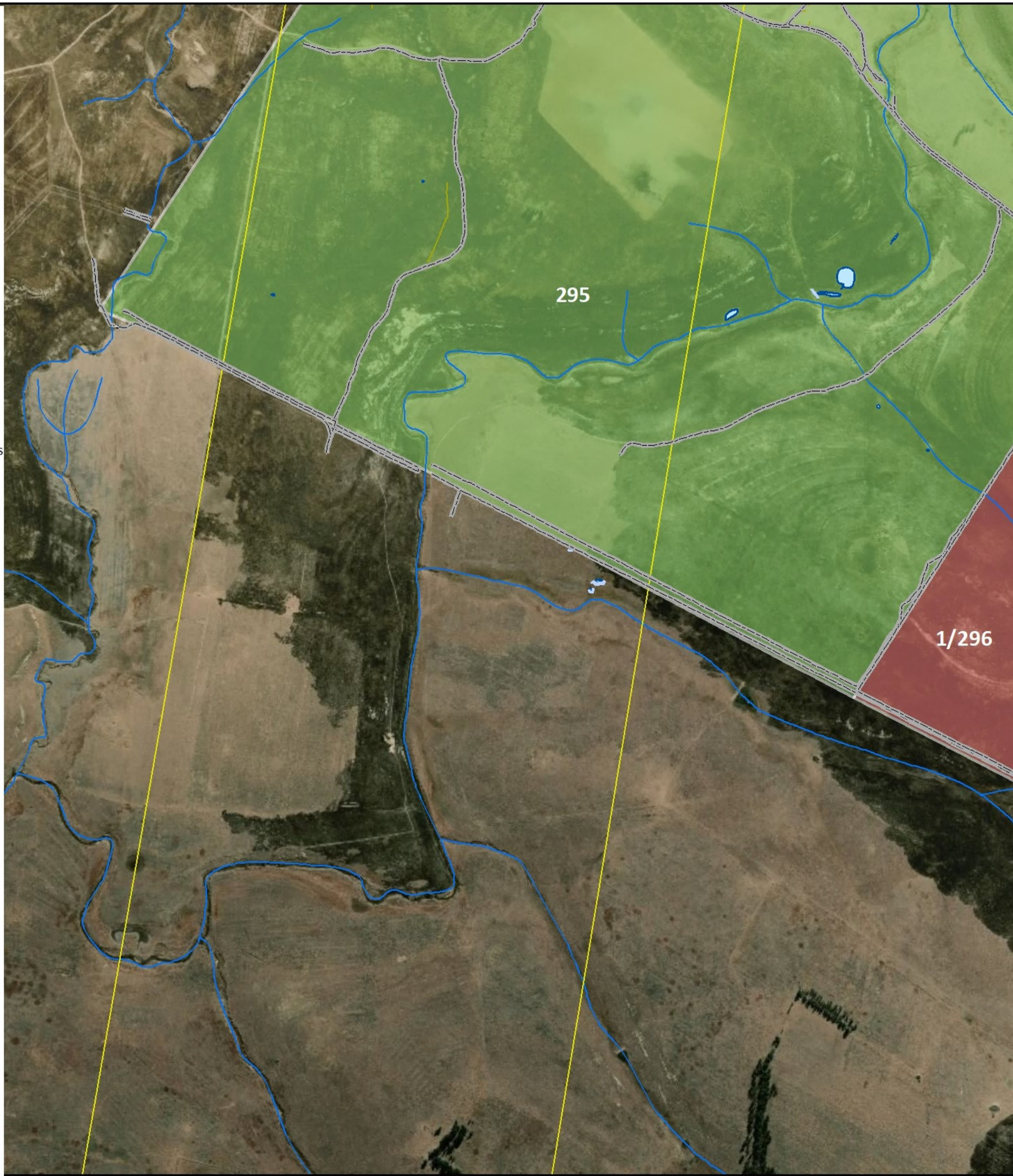
Compiled: PH
Reviewed: SvdG
Approved: LW



Existing Infrastructure

- ▲ Ruins
- Graves
- Sump
- Boxcut
- ⊕ Magazine
- ⋯ Magazine Radius
- Mining Restrictions
- ⚡ Transformers
- Water Tank
- Main Drain
- Steel Pipes
- Haul Roads/ Existing Farm Routes
- Drain Holes
- Discard Dump
- Bridge
- Concrete
- Culverts
- Embankment
- ⛽ Fuel Tanks
- Furrow
- Buildings/ Infrastructure
- ⚙ Pipe in Concrete
- Pollution Control Dam
- Stockpiles
- Substation
- Tar Road
- Trench
- Water BHs
- Surface Pump Lines
- Coal Stockpiles
- Dams

0 0.35 0.7 Km
 Scale: 1:15 496

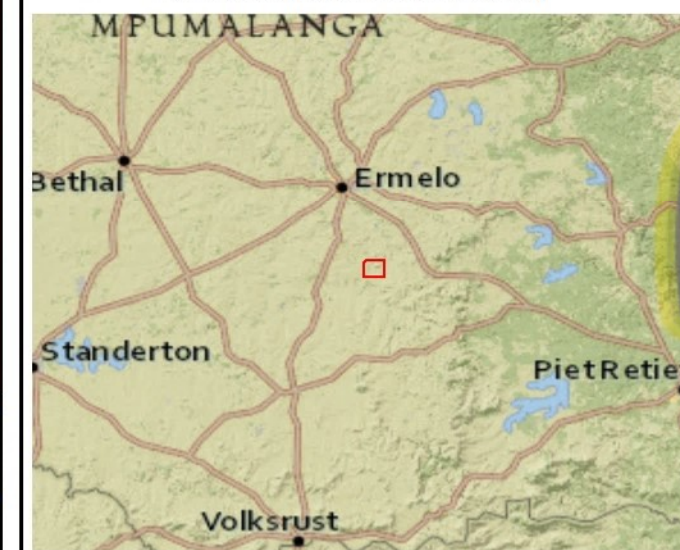


Infrastructure Layout Map- Inset 7

GSW Mooiplaats S102

Legend

- Transmission Lines
- Railway
- Roads
- Rivers/ Streams
- ⊕ Vunene MR Property
- ⊕ Mooiplaats Extended MR
- ⊕ S102 PR677 Portions
- ⊕ S102 PR676 Portions
- ⊕ Original MR Portions
- Planned Rescue Bay BHs
- Planned Rescue Bay
- Planned Substation
- Planned Ventilation Shafts
- Planned Access Routes
- ⊕ Planned Explosive Destruction Bay



Data Sources:
 CSG; ESRI; ENPAT
 Coord System: LO31 TM WGS84
 Projection: Transverse Mercator
 Datum: WGS 1984
 Ref: Infrastructure Inset Map Overview

Date: 2020/05/22

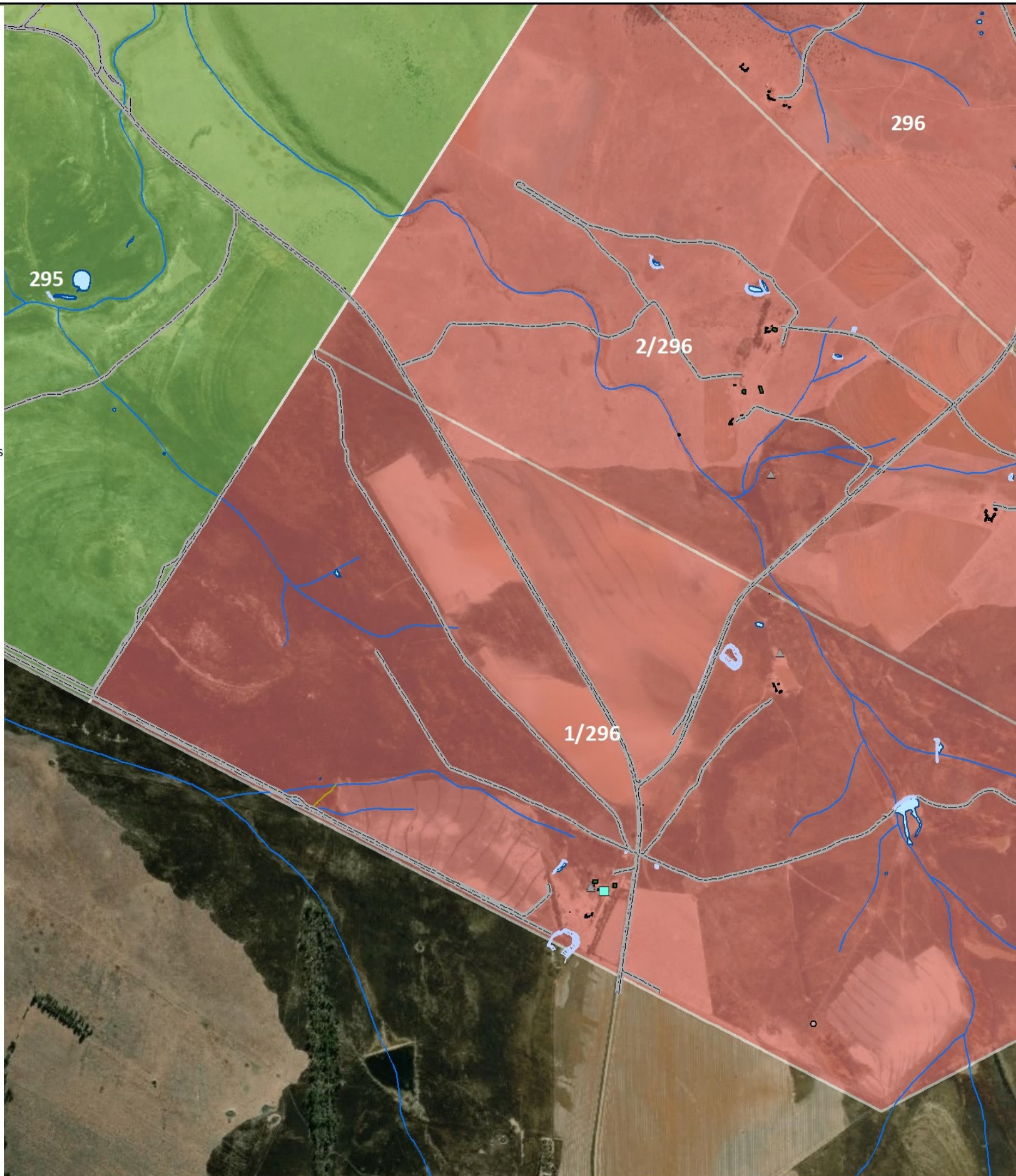
Compiled: PH
 Reviewed: SvdG
 Approved: LW



Existing Infrastructure

- ▲ Ruins
- Graves
- Sump
- Boxcut
- ⊕ Magazine
- ⋯ Magazine Radius
- Mining Restrictions
- ⚡ Transformers
- Water Tank
- Main Drain
- Steel Pipes
- Haul Roads/ Existing Farm Routes
- Drain Holes
- Discard Dump
- Bridge
- Concrete
- Culverts
- Embankment
- ⛽ Fuel Tanks
- Furrow
- Buildings/ Infrastructure
- ⚙ Pipe in Concrete
- Pollution Control Dam
- Stockpiles
- Substation
- Tar Road
- Trench
- Water BHs
- Surface Pump Lines
- Coal Stockpiles
- Dams

0 0.35 0.7 Km
 Scale: 1:15 496

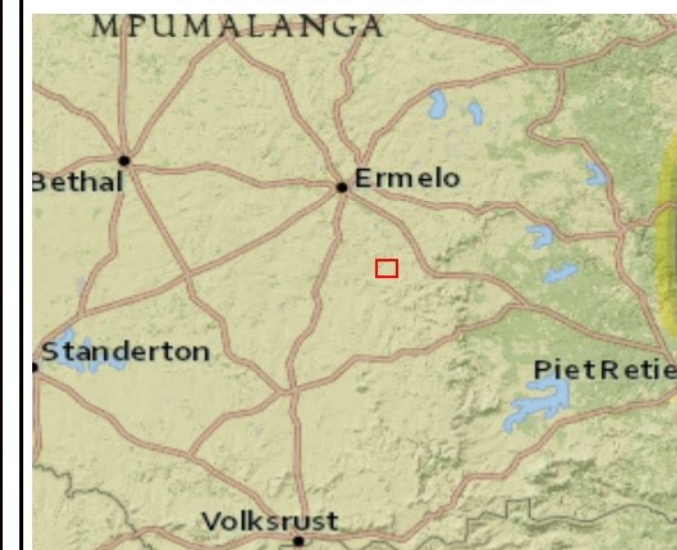


Infrastructure Layout Map- Inset 8

GSW Mooiplaats S102

Legend

- Transmission Lines
- Railway
- Roads
- Rivers/ Streams
- ⊕ Vunene MR Property
- ⊕ Mooiplaats Extended MR
- ⊕ S102 PR677 Portions
- ⊕ S102 PR676 Portions
- ⊕ Original MR Portions
- Planned Rescue Bay BHs
- Planned Rescue Bay
- Planned Substation
- Planned Ventilation Shafts
- Planned Access Routes
- ⊕ Planned Explosive Destruction Bay



Data Sources:
 CSG; ESRI; ENPAT
 Coord System: LO31 TM WGS84
 Projection: Transverse Mercator
 Datum: WGS 1984
 Ref: Infrastructure Inset Map Overview

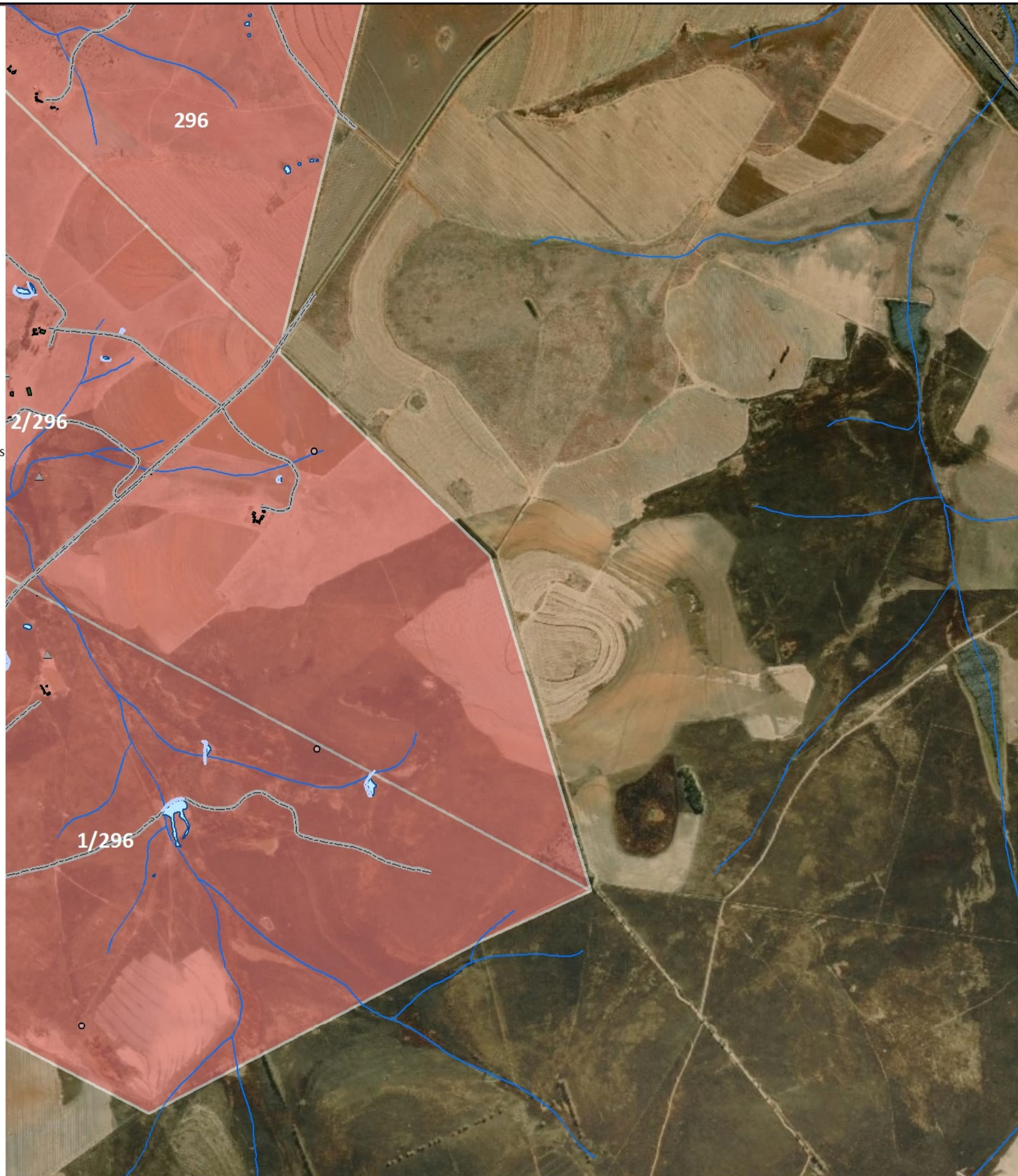
Date: 2020/05/22

Compiled: PH
 Reviewed: SvdG
 Approved: LW



Existing Infrastructure

- ▲ Ruins
- Graves
- Sump
- Boxcut
- ⊕ Magazine
- ⋯ Magazine Radius
- Mining Restrictions
- ⚡ Transformers
- Water Tank
- Main Drain
- Steel Pipes
- Haul Roads/ Existing Farm Routes
- Drain Holes
- Discard Dump
- Bridge
- Concrete
- Culverts
- Embankment
- ⛛ Fuel Tanks
- Furrow
- Buildings/ Infrastructure
- ⚙ Pipe in Concrete
- Pollution Control Dam
- Stockpiles
- Substation
- Tar Road
- Trench
- Water BHs
- Surface Pump Lines
- Coal Stockpiles
- Dams

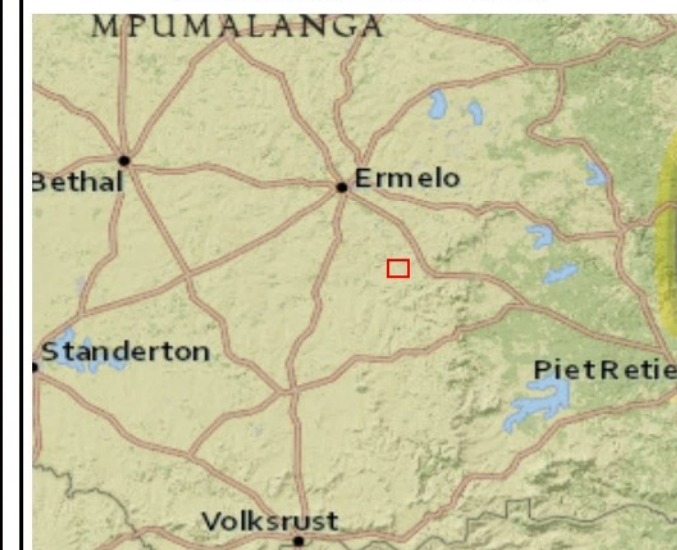


Infrastructure Layout Map- Inset 9

GSW Mooiplaats S102

Legend

- Transmission Lines
- Railway
- Roads
- Rivers/ Streams
- ⊕ Vunene MR Property
- ⊕ Mooiplaats Extended MR
- ⊕ S102 PR677 Portions
- ⊕ S102 PR676 Portions
- ⊕ Original MR Portions
- Planned Rescue Bay BHs
- Planned Rescue Bay
- Planned Substation
- Planned Ventilation Shafts
- Planned Access Routes
- ⊕ Planned Explosive Destruction Bay



Data Sources:

CSG; ESRI; ENPAT
 Coord System: LO31 TM WGS84
 Projection: Transverse Mercator
 Datum: WGS 1984
 Ref: Infrastructure Inset Map Overview

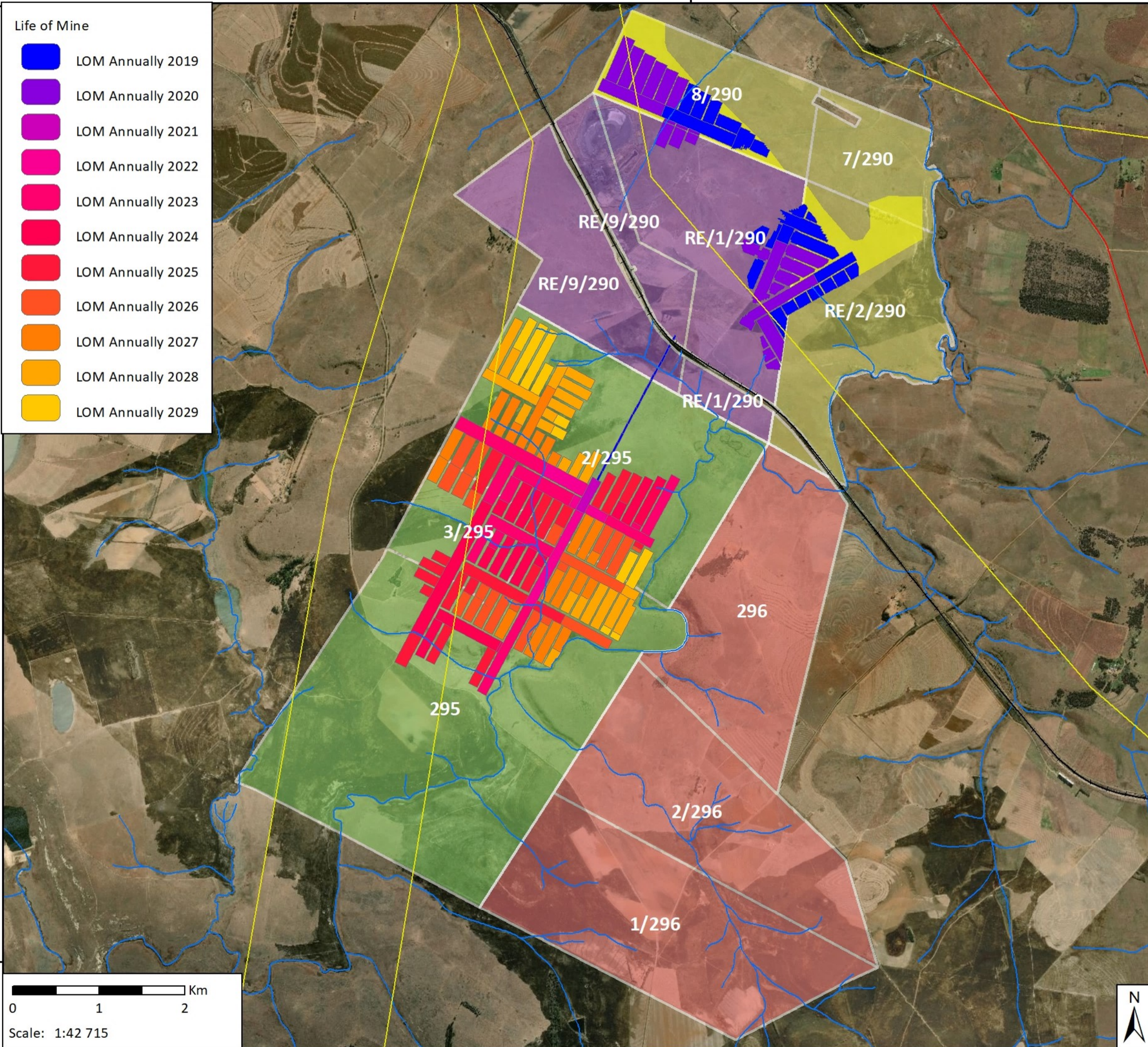
Date: 2020/05/22

Compiled: PH
 Reviewed: SvdG
 Approved: LW



-2946704.1

-88945.8978

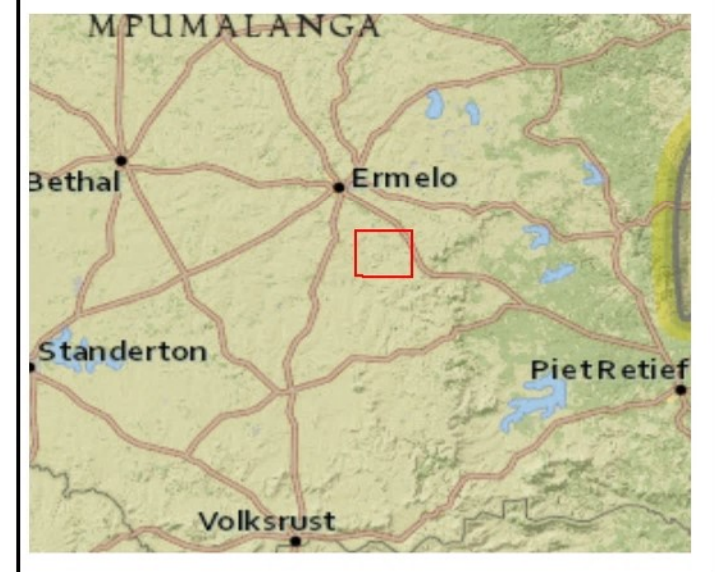


- Life of Mine**
- LOM Annually 2019
 - LOM Annually 2020
 - LOM Annually 2021
 - LOM Annually 2022
 - LOM Annually 2023
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 - LOM Annually 2025
 - LOM Annually 2026
 - LOM Annually 2027
 - LOM Annually 2028
 - LOM Annually 2029

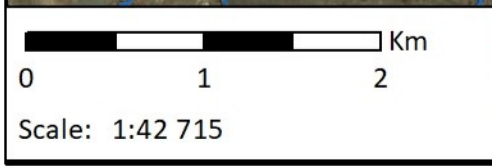
Mooiplaats LOM and Affected Properties Overview

GSW Mooiplaats S102

- Legend**
- Transmission Lines
 - Railway
 - Roads
 - Rivers/ Streams
 - Mooiplaats Extended MR
 - Vunene MR Property
 - S102 PR677 Portions
 - S102 PR676 Portions
 - Original MR Portions



Data Sources:
 CSG; ESRI; ENPAT
 Coord System: LO31 TM WGS84
 Projection: Transverse Mercator
 Datum: WGS 1984
 Ref: LOM and Infrastructure Overview



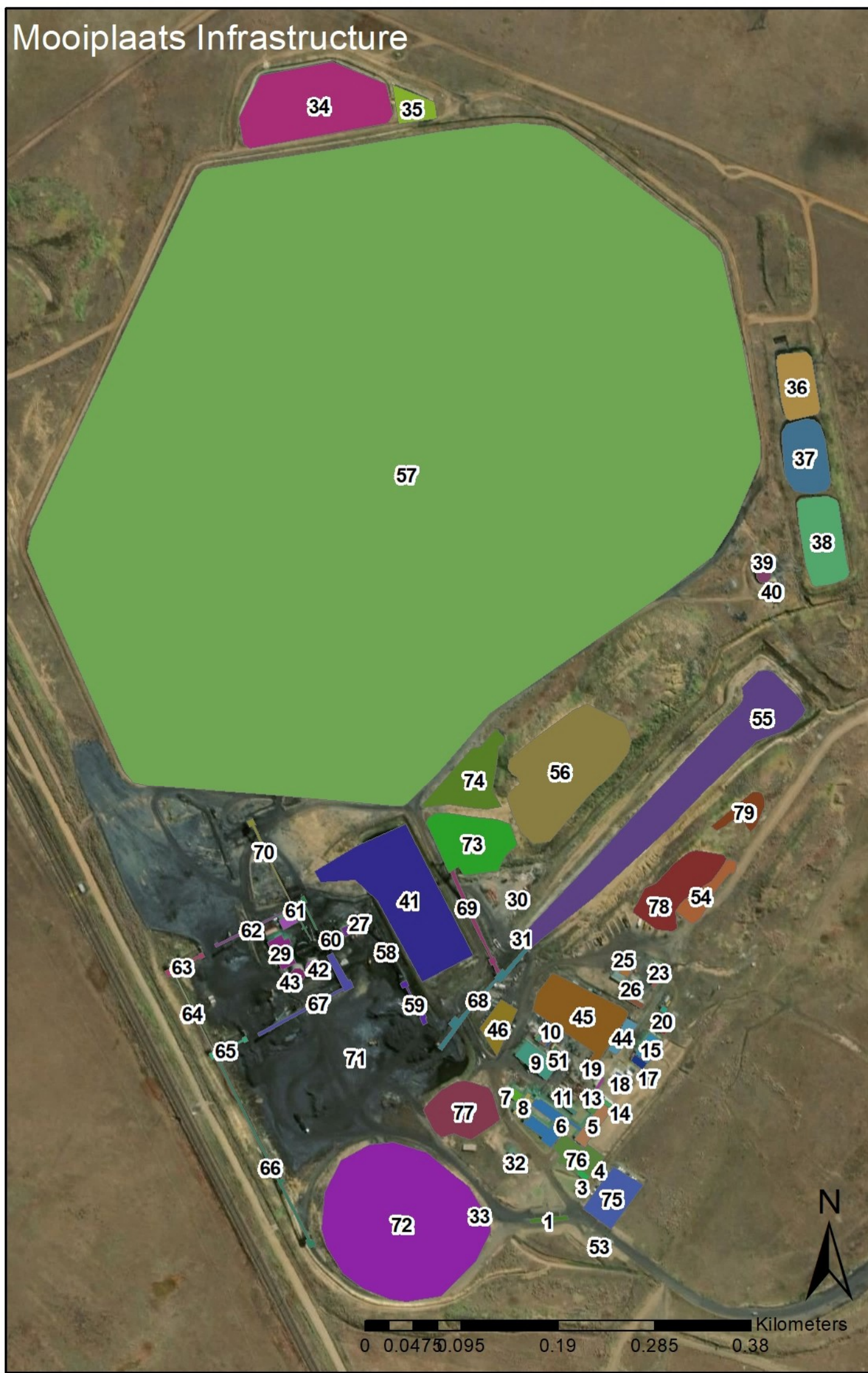
Date: 2019/08/21

Compiled: PH
 Reviewed: SvdG
 Approved: LW



-2957823.6011

Mooiplaats Infrastructure



Legend

Infrastructure		
	1, Weighbridge	
	2, Weighbridge- office	
	3, Carport	
	4, Bridge	
	5, Offices/ Training Center	
	6, Offices/ Lamp room	
	7, Unknown Structure	
	8, Store	
	9, Workshop	
	10, Bunded Storage area	
	11, Container and Golf Cart	
	12, Unknown Structure	
	13, Unknown Structure	
	14, Temp Offices	
	15, Generator- buidling	
	16, Generator	
	17, Diesel storage	
	18, Sewage plant	
	19, Container	
	20, Unknown Structure	
	21, Sub-station	
	22, Sub-station	
	23, Workshop	
	24, Workshop	
	25, Containers- Reliant Elec	
	26, Containers- Reliant Elec	
	27, Plant- Control room	
	28, Laboratory	
	29, Plant workshop	
	30, Shaft access guard house	
	31, Shaft Security Building	
	32, Parking Carport	
	33, Security hut	
	34, Return water dam (lined)	
	35, Silt trap	
	36, Dam 1	
	37, Dam 2	
	38, Dam 3	
	39, Water tanks 1	
	40, Water tanks 2	
	41, Pollution control dam	
	42, Water tanks 3	
	43, Water tanks 4	
	44, Genset dam	
	45, Stockyard/ Salvage Yard	
	46, Laydown area	
	47, Workshop Container 1	
	48, Workshop Container 2	
	49, Workshop Container 3	
	50, Workshop Container 4	
	51, Workshop Container 5	
	52, Workshop Container 6	
	53, Access Gate Hut	
	54, Yard area	
	55, Decline Shaft	
	56, MP6- Waste Dump	
	57, Co-disposal facility	
	59, Conveyor	
	61, Rewash	
	62, Middlings conveyor	
	63, Load out conveyor	
	64, Load out conveyor	
	65, Conveyor	
	66, Load out conveyor	
	67, Primary product conveyor	
	68, ROM Conveyor	
	69, Auxillary stockpile conveyor	
	70, Discard conveyor	
	72, Old Stockpile area	
	73, Auxillary stockpile 1	
	74, Auxillary stockpile 2	
	75, Visitors parking	
	76, Parking area	
	77, MP1-Topsoil Stockpile	
	78, MP7- Topsoil and Softs	
	79, MP7- Topsoil and Softs	

Data Sources:
 GCS, ESRI
 Coordinate System: Wgs84 Lo31
 Projection: Transverse Mercator
 Datum: Hartebeesthoek 1994
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 False Northing: 0.0000
 Central Meridian: 31.0000
 Scale Factor: 1.0000
 Latitude Of Origin: 0.0000
 Units: Meter
 Ref: Mooiplaats infra



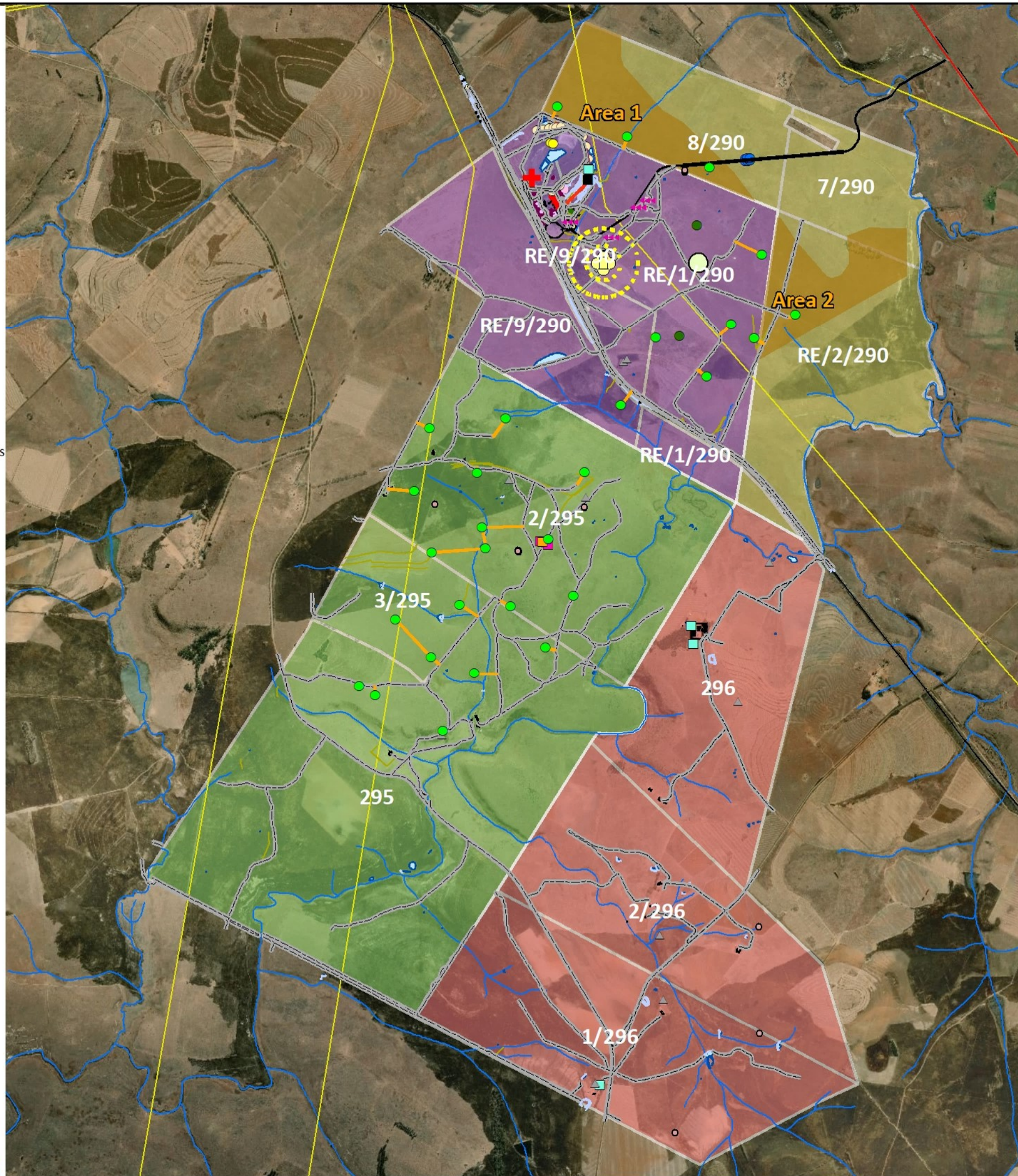
Date: 2019/08/27
 EIMS Ref: 1242
 Compiled: PH
 Reviewed: LW
 Approved: LW



Existing Infrastructure

- ▲ Ruins
- Graves
- Sump
- Boxcut
- ⊕ Magazine
- ⋯ Magazine Radius
- Mining Restrictions
- ⚡ Transformers
- Water Tank
- Main Drain
- Steel Pipes
- Haul Roads/ Existing Farm Routes
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- Furrow
- Buildings/ Infrastructure
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- Pollution Control Dam
- Stockpiles
- Substation
- Tar Road
- Trench
- Water BHs
- Surface Pump Lines
- Coal Stockpiles
- Dams

0 1 2 Km
 Scale: 1:43 194

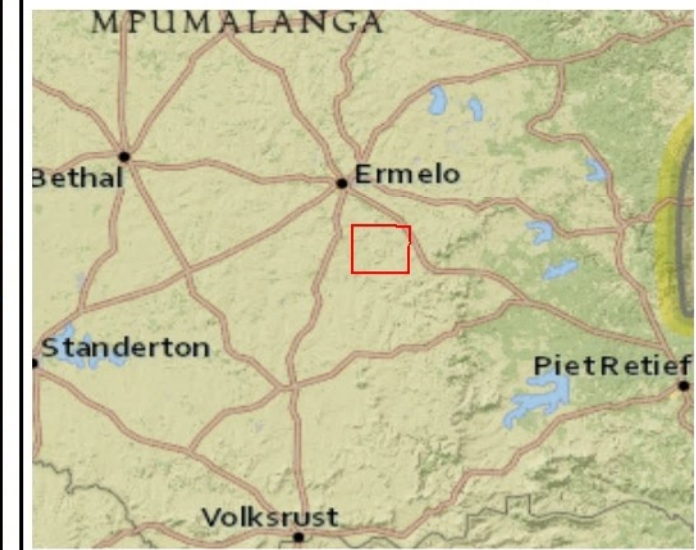


Infrastructure Inset Map Overview

GSW Mooiplaats S102

Legend

- Transmission Lines
- Railway
- Roads
- Rivers/ Streams
- ⊕ Vunene MR Property
- ⊕ Mooiplaats Extended MR
- ⊕ S102 PR677 Portions
- ⊕ S102 PR676 Portions
- ⊕ Original MR Portions
- Planned Rescue Bay BHs
- Planned Rescue Bay
- Planned Substation
- Planned Ventilation Shafts
- Planned Access Routes
- ⊕ Planned Explosive Destruction Bay



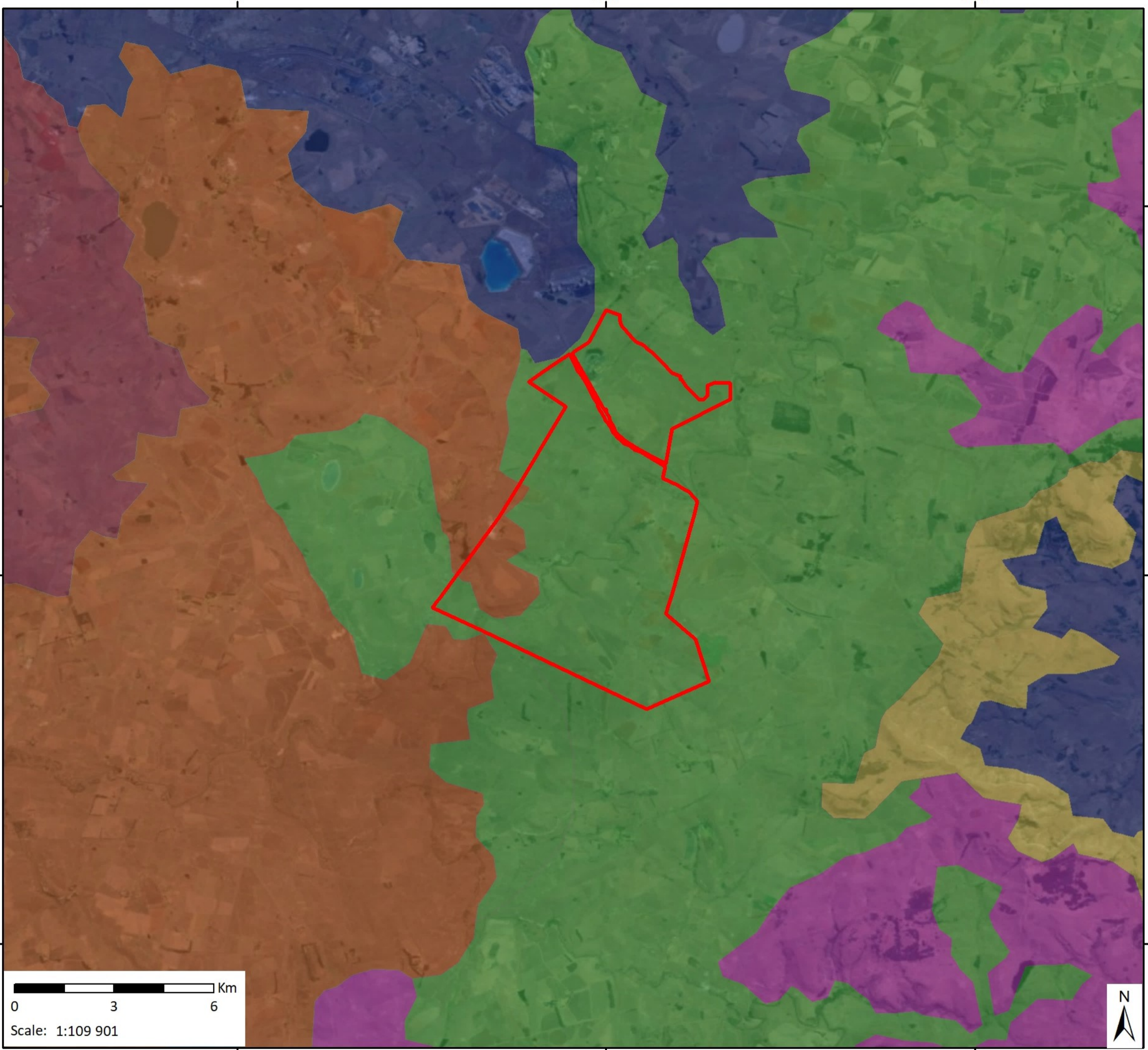
Data Sources:

CSG; ESRI; ENPAT
 Coord System: LO31 TM WGS84
 Projection: Transverse Mercator
 Datum: WGS 1984
 Ref: Infrastructure Inset Map Overview

Date: 2020/05/22

Compiled: PH
 Reviewed: SvdG
 Approved: LW













Mooiplaats Soil Types

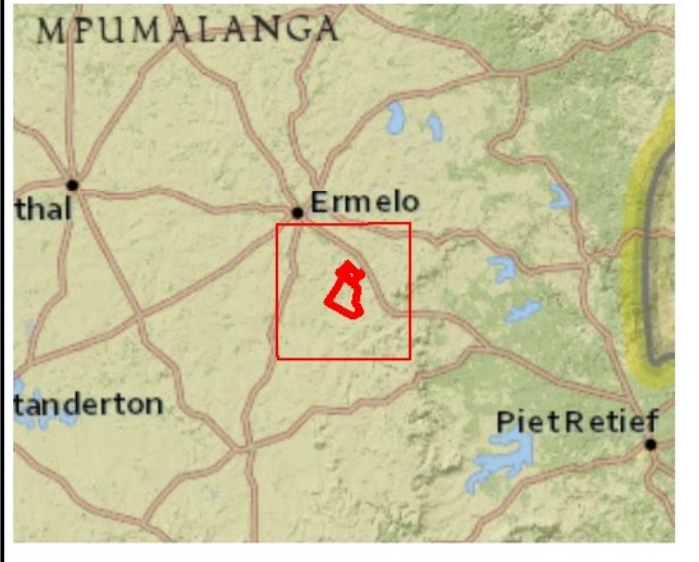
1299 GSW Mooiplaats Colliery S102

Legend

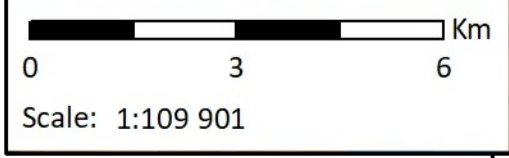
 Mining Right Boundary

Soil Types

-  ACh
-  ACp
-  FRr
-  LPq
-  PHh
-  PLe
-  RGe



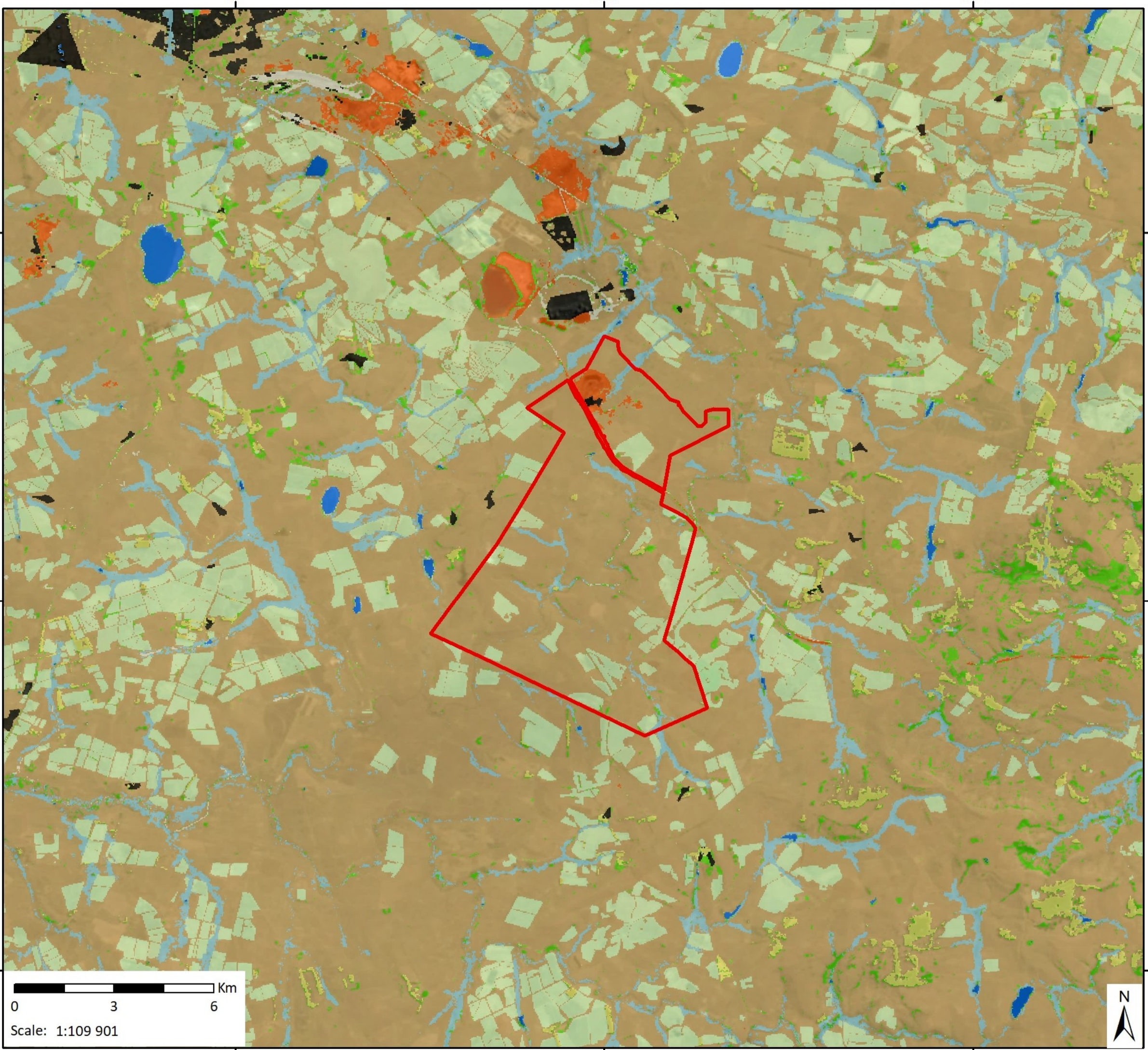
Data Sources:
 CSG; ESRI; ISRIC
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Ref: Soil_190514



Date: 2019/08/27












Compiled: PH
 Reviewed: SvdG
 Approved: LW

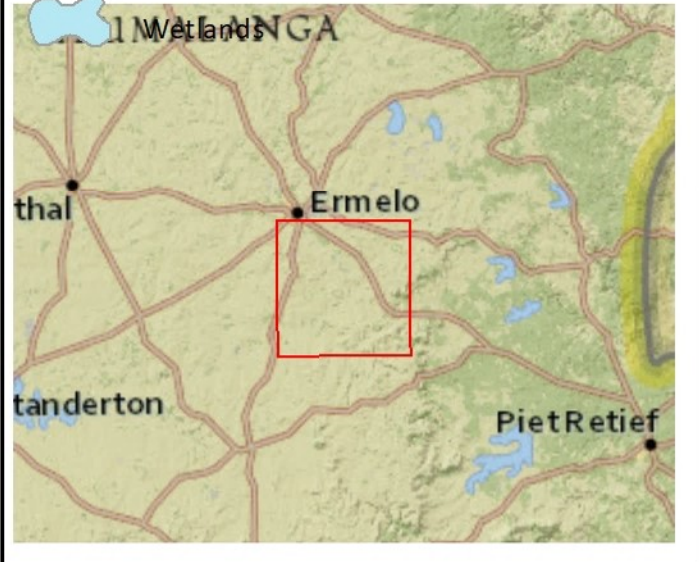




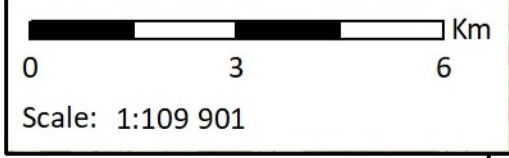
Mooiplaats Surrounding Land Cover

1299 GSW Mooiplaats Colliery S102

- Legend**
-  MR Boundary
 - Surrounding Land Cover**
 -  None Vegetated Areas and Dongas
 -  Cultivated Areas
 -  Grassland
 -  Indigenous Forest
 -  Shrubland/ Bush/ Woodlands
 -  Mining Areas
 -  Plantations
 -  Urbanised Areas
 -  Surface Water Areas
 -  Wetlands



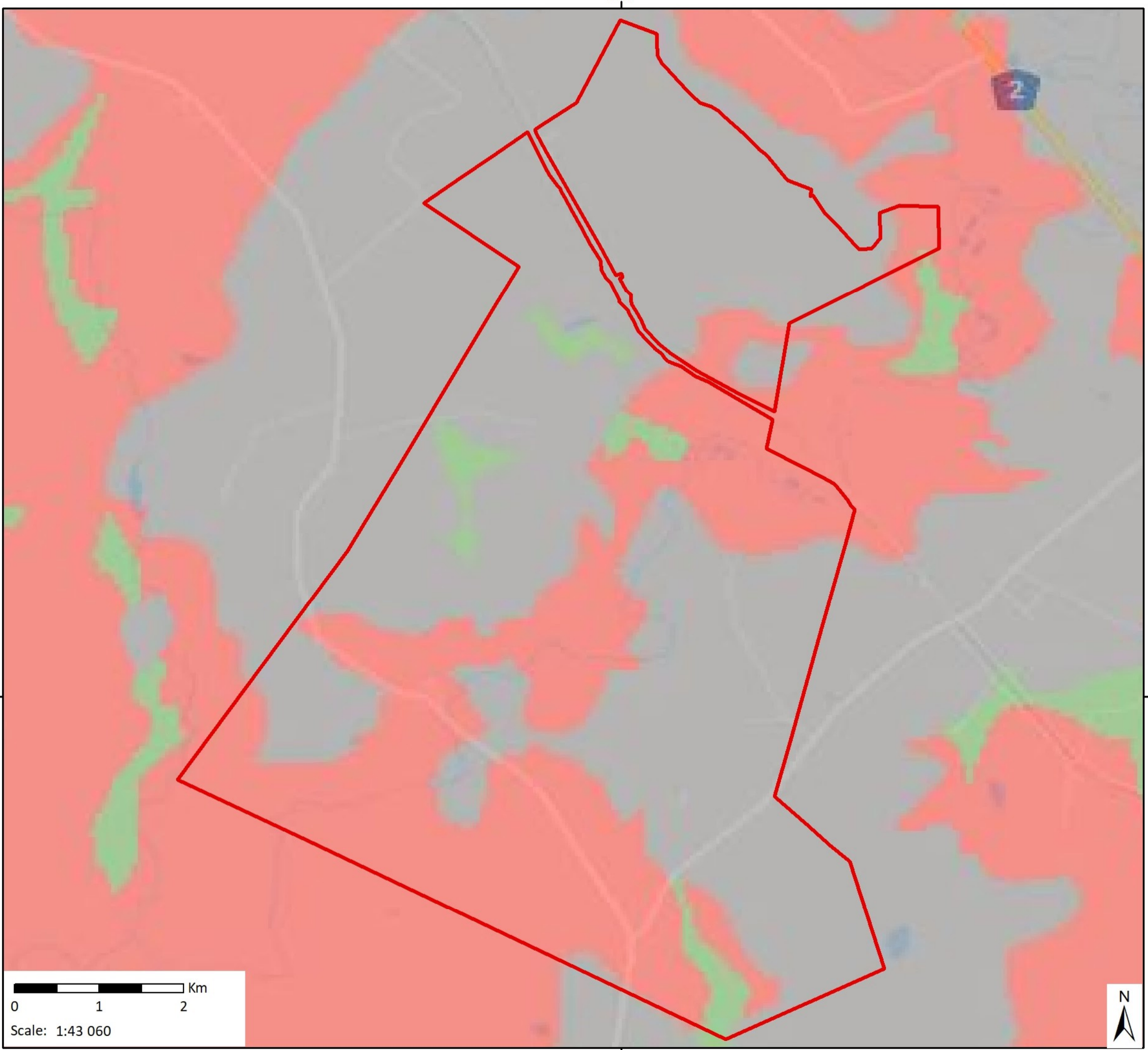
Data Sources:
 CSG; ESRI; DEA
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Ref: Land Cover_190514



Date: 2019/08/27

Compiled: PH
 Reviewed: SvdG
 Approved: LW





Mooiplaats Palaeontological Sensitivity

1299 GSW Mooiplaats Colliery S102

Legend

MR Boundary

Palaeontological Sensitivity

Very High

High

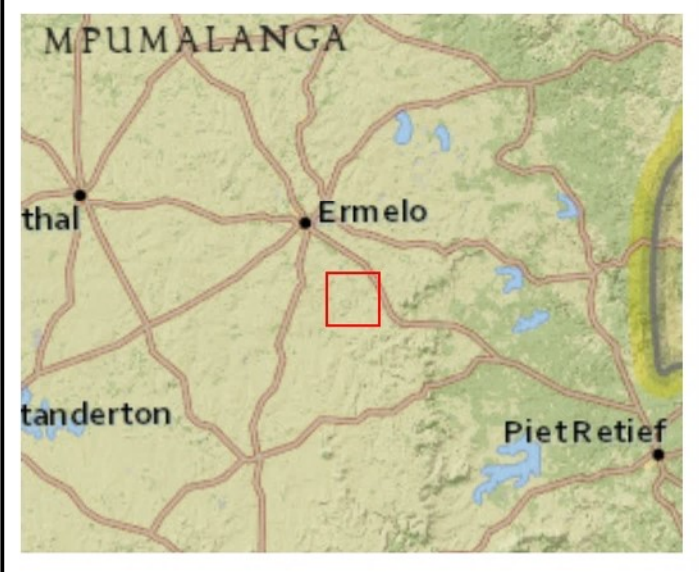
Moderate

Low

Insignificant

Unknown

Disclaimer: This image was manually georeferenced. Small inconsistencies may exist.

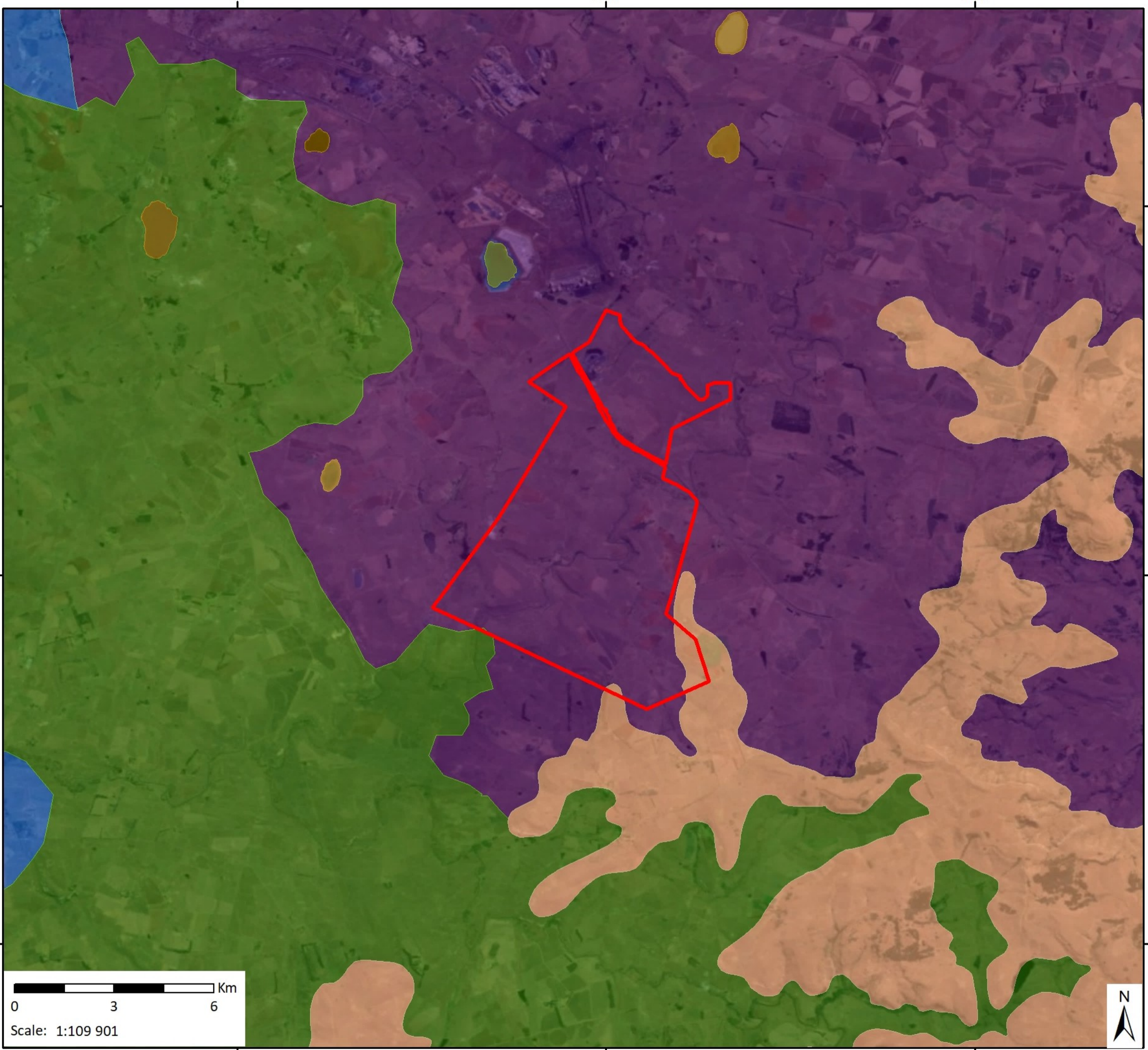


Data Sources:
 CSG; ESRI; SAHRA
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Ref: Paleo_190514

Date: 2019/08/27

Compiled: PH
 Reviewed: SvdG
 Approved: LW

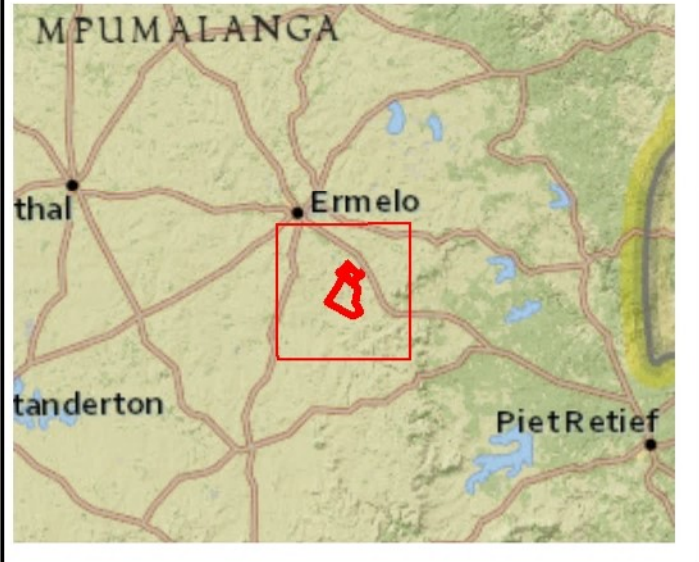




Mooiplaats Surrounding Vegetation

1299 GSW Mooiplaats Colliery S102

- Legend**
-  Mining Right Boundary
 - Mucina and Rutherford Vegetation**
 -  Amersfoort Highveld Clay Grassland
 -  Eastern Highveld Grassland
 -  Eastern Temperate Freshwater Wetlands
 -  Soweto Highveld Grassland
 -  Wakkerstroom Montane Grassland

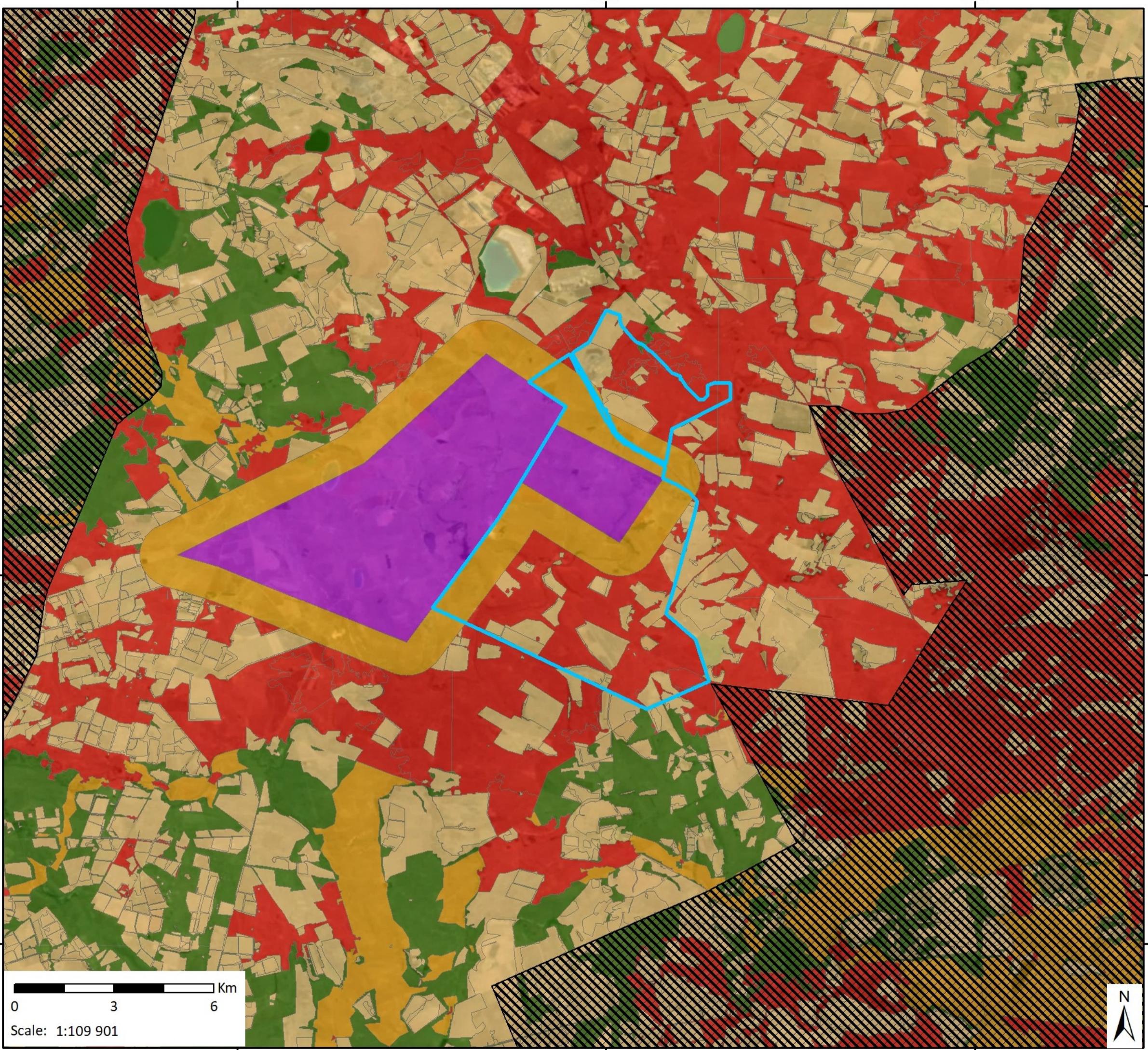


Data Sources:
 CSG; ESRI; Mucina and Rutherford
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Ref: SW Vegetation_190514








Date: 2019/08/27

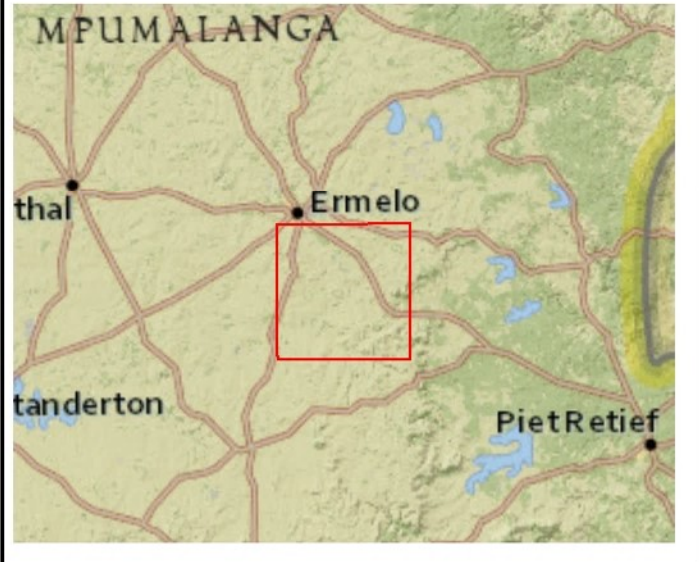
Compiled: PH
 Reviewed: SvdG
 Approved: LW





Mooiplaats MBSP Terrestrial Assessment and Important Bird Areas
 1299 GSW Mooiplaats Colliery S102

- Legend**
-  MR Boundary
 -  Important Bird Areas
- MBSP terrestrial assessment**
-  Critical Biodiversity Area
 -  Ecological Support Area
 -  Heavily or moderately modified
 -  Other Natural Areas
 -  Protected Areas

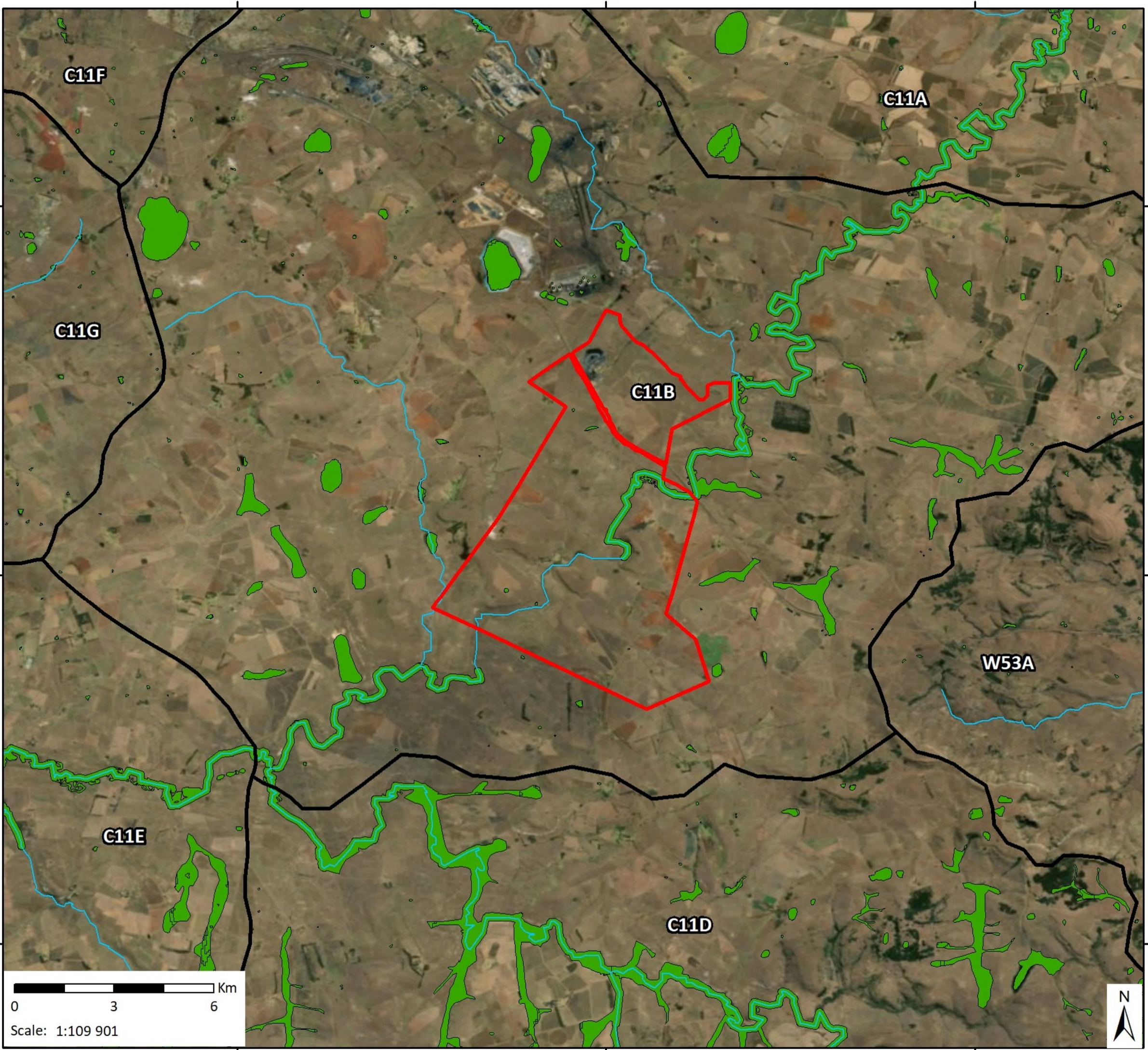


Data Sources:
 CSG; ESRI; SANBI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Ref: MBSP_190514

Date: 2019/08/27



Compiled: PH
 Reviewed: SvdG
 Approved: LW

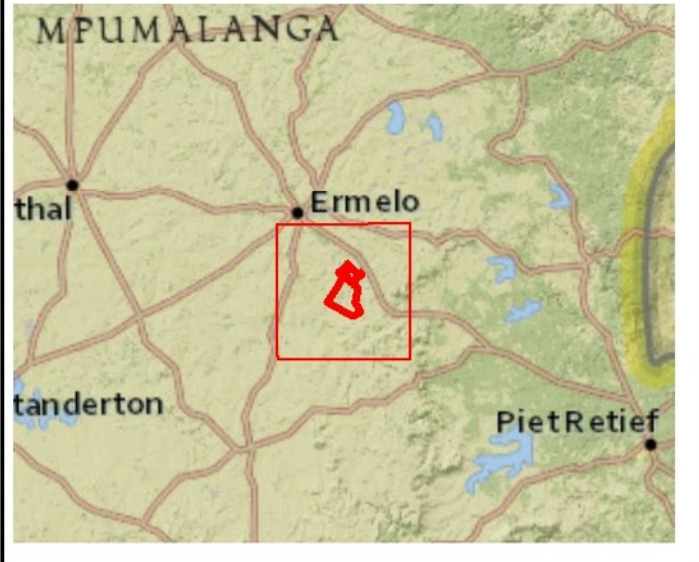




Mooiplaats Surface Water Features

1299 GSW Mooiplaats Colliery S102

- Legend**
-  MR Boundary
 -  Quaternary Catchments
 -  NFEPA Rivers
 -  Dams
 -  NFEPA Wetlands



Data Sources:
 CSG; ESRI; NFEPA; SANBI, WR2012
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Ref: SW Features_190514

Date: 2019/08/27

Compiled: PH
 Reviewed: SvdG
 Approved: LW

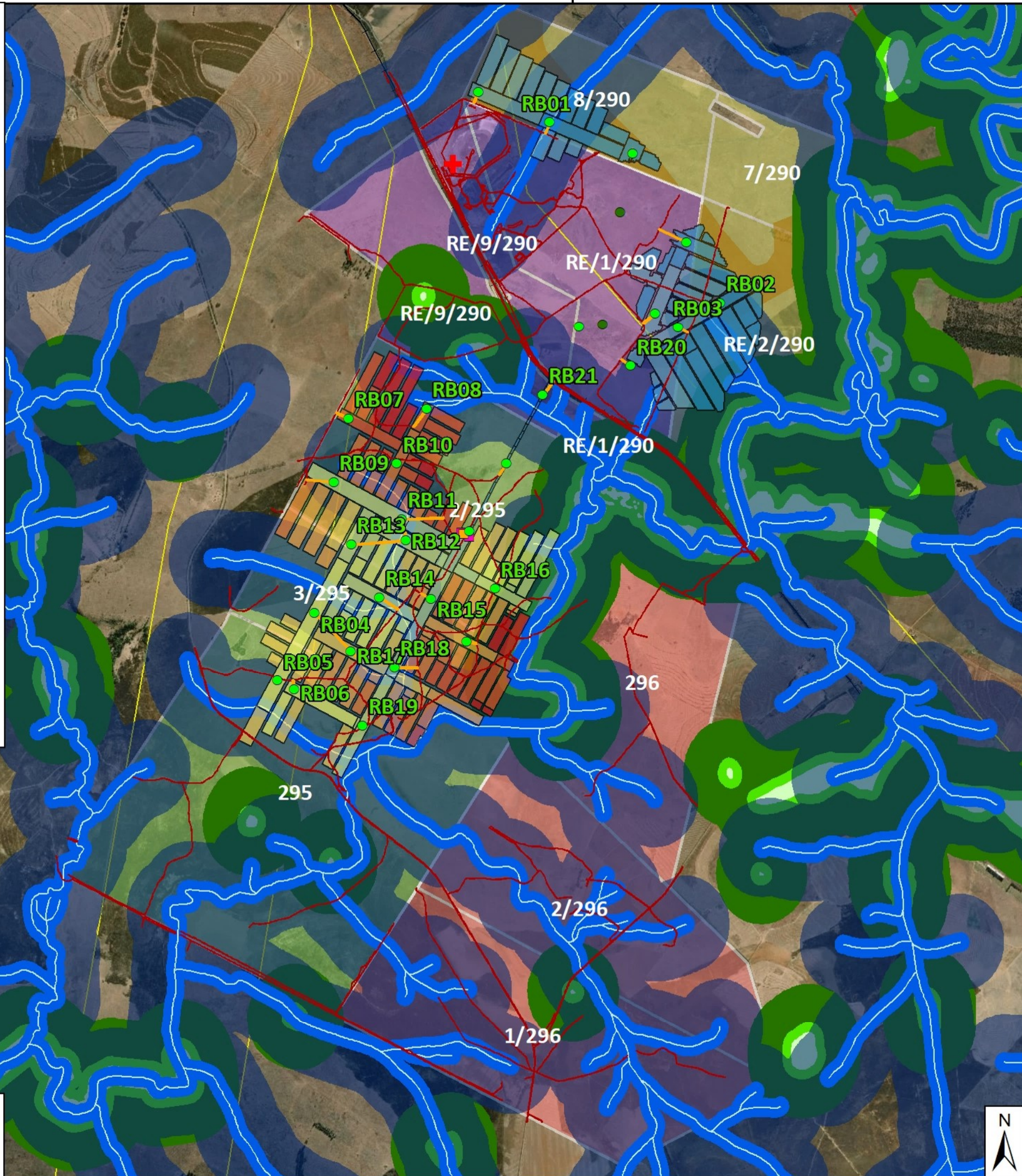


Life of Mine

- LOM Annually 2019
- LOM Annually 2020
- LOM Annually 2021
- LOM Annually 2022
- LOM Annually 2023
- LOM Annually 2024
- LOM Annually 2025
- LOM Annually 2026
- LOM Annually 2027
- LOM Annually 2028
- LOM Annually 2029

Surface Water Features

- Rivers/ Streams
- Rivers/ Streams 100m Buffer
- Rivers/ Streams 500m Buffer
- NFEPA Wetlands
- NFEPA Wetlands 100m Buffer
- NFEPA Wetlands 500m Buffer



Scale: 1:42 563

0 1 2 Km

Scale: 1:42 563

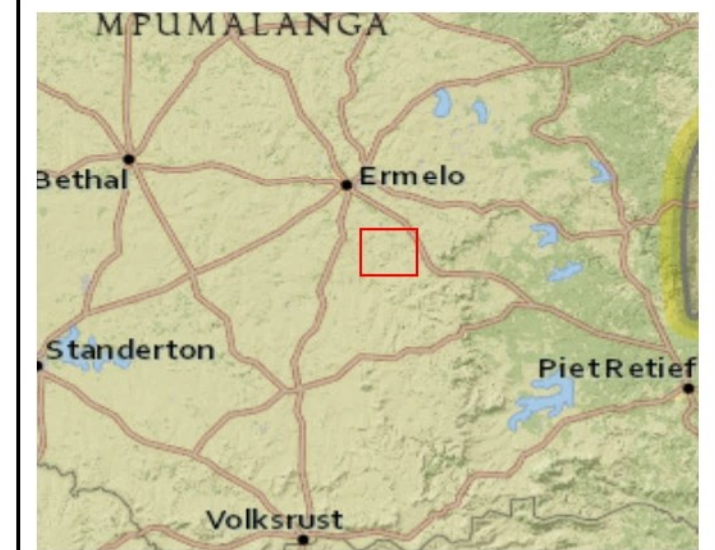
Mooiplaats LOM, Proposed Infrastructure and Surface Water Features- Overview
1290 GSW Mooiplaats WUL

Legend

- Haul and Farm Roads
- S102 PR677 Portions
- S102 PR676 Portions
- Original MR Portions
- Mooiplaats Extended MR
- Vunene MR Property

Proposed Infrastructure

- Planned Rescue Bay BHs
- Planned Rescue Bay
- Planned Substation
- Planned Ventilation Shafts
- Planned Access Routes
- Planned Explosive Destruction Bay



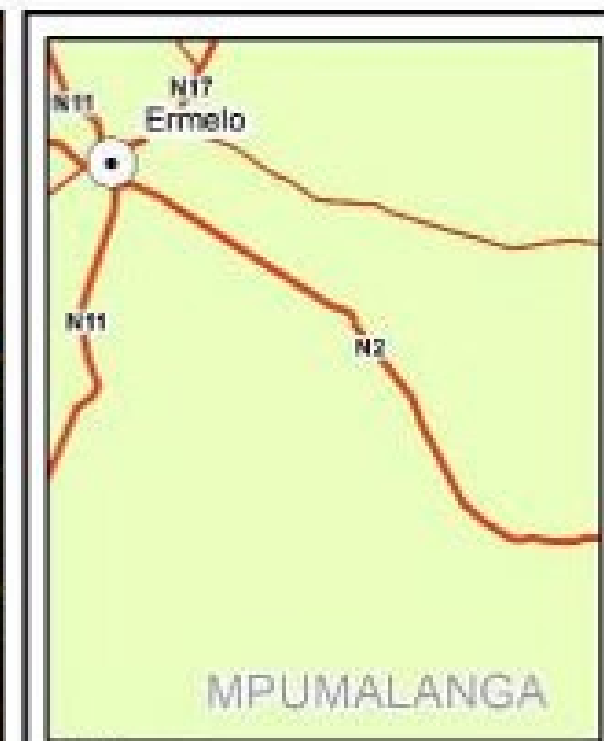
Data Sources:
CSG; ESRI; ENPAT; SANBI
Coord System: LO31 TM WGS84
Projection: Transverse Mercator
Datum: WGS 1984
Ref: Prop Infrastructure and SW Features- Overview

Date: 2020/05/22

Compiled: PH
Reviewed: SvdG
Approved: LW



MOOIPLAATS COLLIERY IWUL MONITORING: GROUNDWATER



© 2014 GeoSpace
1:75,000 @ 44 pixels/cm

Legend

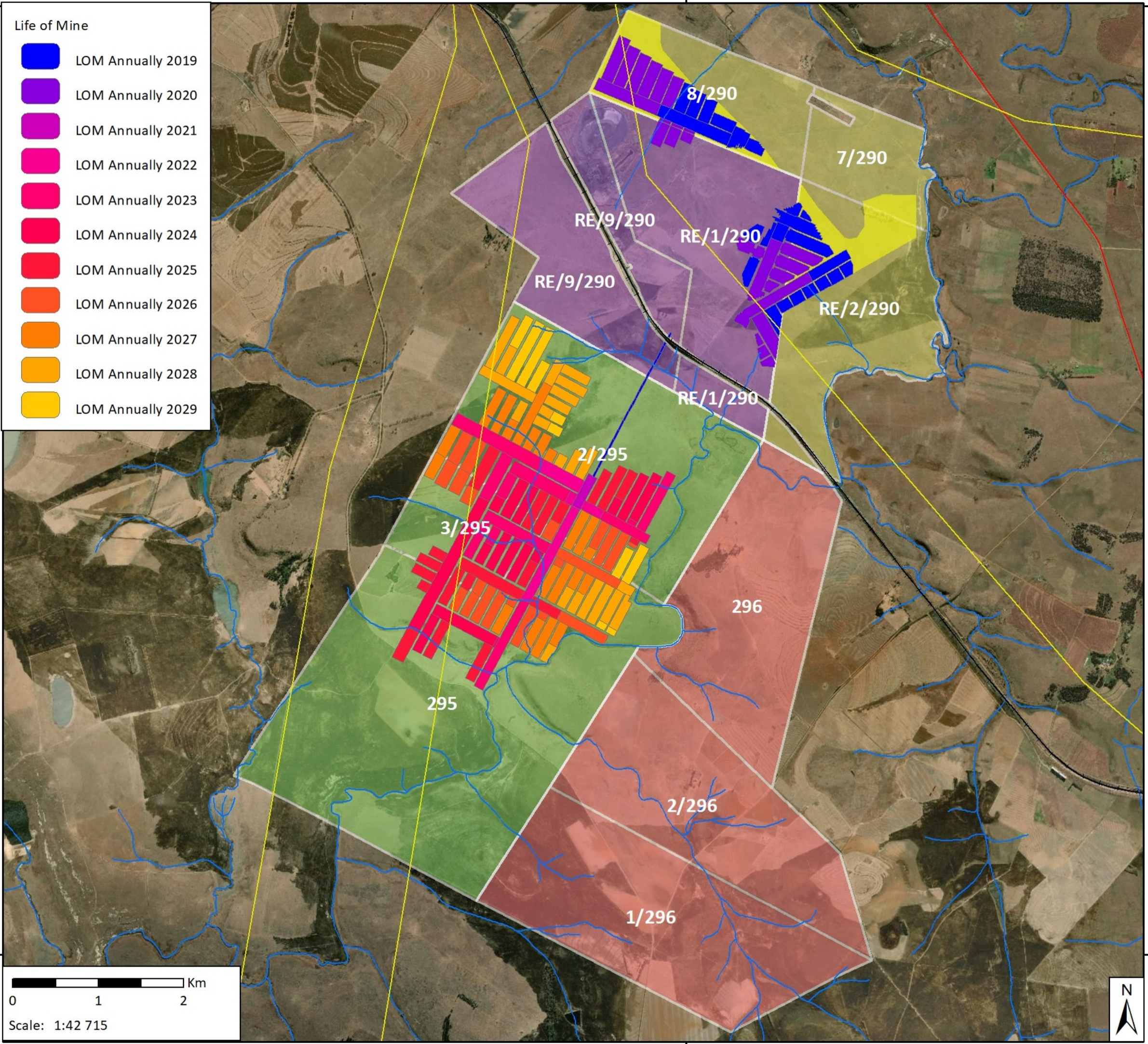
- Groundwater Monitoring
- Perennial Rivers
- Non-Perennial Rivers
- Railway Line
- Main Road
- Secondary Road
- Cadastral

RF van der Merwe
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PGPT 023

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E-mail: info@geospatial.co.za
Website: www.geospatial.co.za

-2946704.1

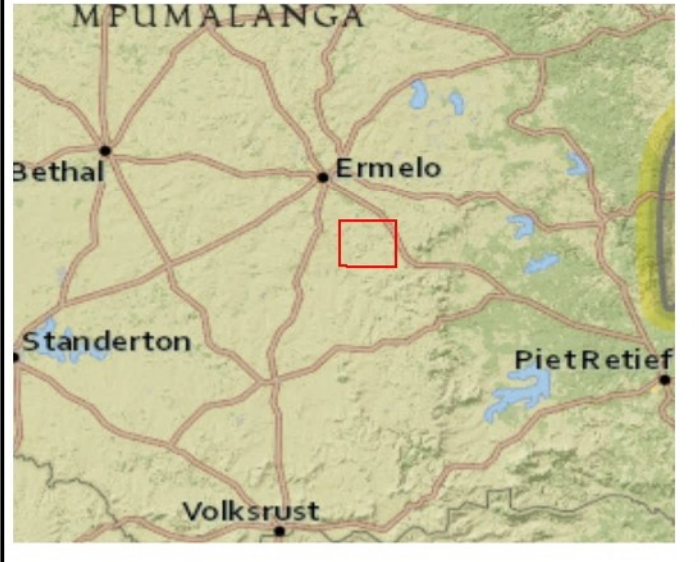
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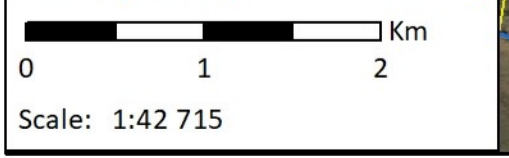
- Life of Mine**
- LOM Annually 2019
 - LOM Annually 2020
 - LOM Annually 2021
 - LOM Annually 2022
 - LOM Annually 2023
 - LOM Annually 2024
 - LOM Annually 2025
 - LOM Annually 2026
 - LOM Annually 2027
 - LOM Annually 2028
 - LOM Annually 2029

Mooiplaats LOM and Affected Properties Overview
GSW Mooiplaats S102

- Legend**
- Transmission Lines
 - Railway
 - Roads
 - Rivers/ Streams
 - Vunene MR Property
 - Mooiplaats Extended MR
 - S102 PR677 Portions
 - S102 PR676 Portions
 - Original MR Portions



Data Sources:
CSG; ESRI; ENPAT
Coord System: LO31 TM WGS84
Projection: Transverse Mercator
Datum: WGS 1984
Ref: LOM and Infrastructure Overview



Date: 2019/08/21

Compiled: PH
Reviewed: SvdG
Approved: LW



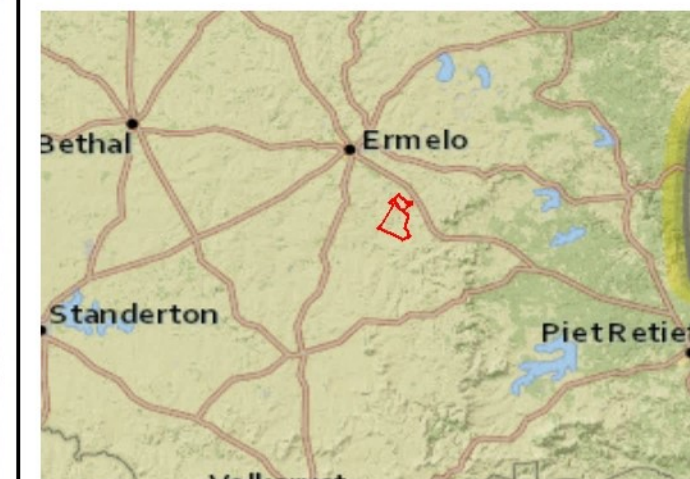
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Sensitivity Map

GSW Mooiplaats S102

Legend

-  MR Boundary
-  Life of Mine
- Planned Surface Infrastructure**
 -  Planned Explosive Destruction Bay
 -  Planned Rescue Bay BHs
 -  Planned Rescue Bay
 -  Planned Substation
 -  Planned Ventilation Shafts
 -  Planned Access Routes
- Sensitivity**
 -  High
 -  Medium
 -  Low
 -  Least Concern



Data Sources:
CSG; ESRI; TBC
Coord System: LO31 TM WGS84
Projection: Transverse Mercator
Datum: WGS 1984
Ref: Sensitivity Map

Date: 2020/08/03

Compiled: PH
Reviewed: SK
Approved: LW

