







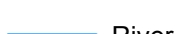



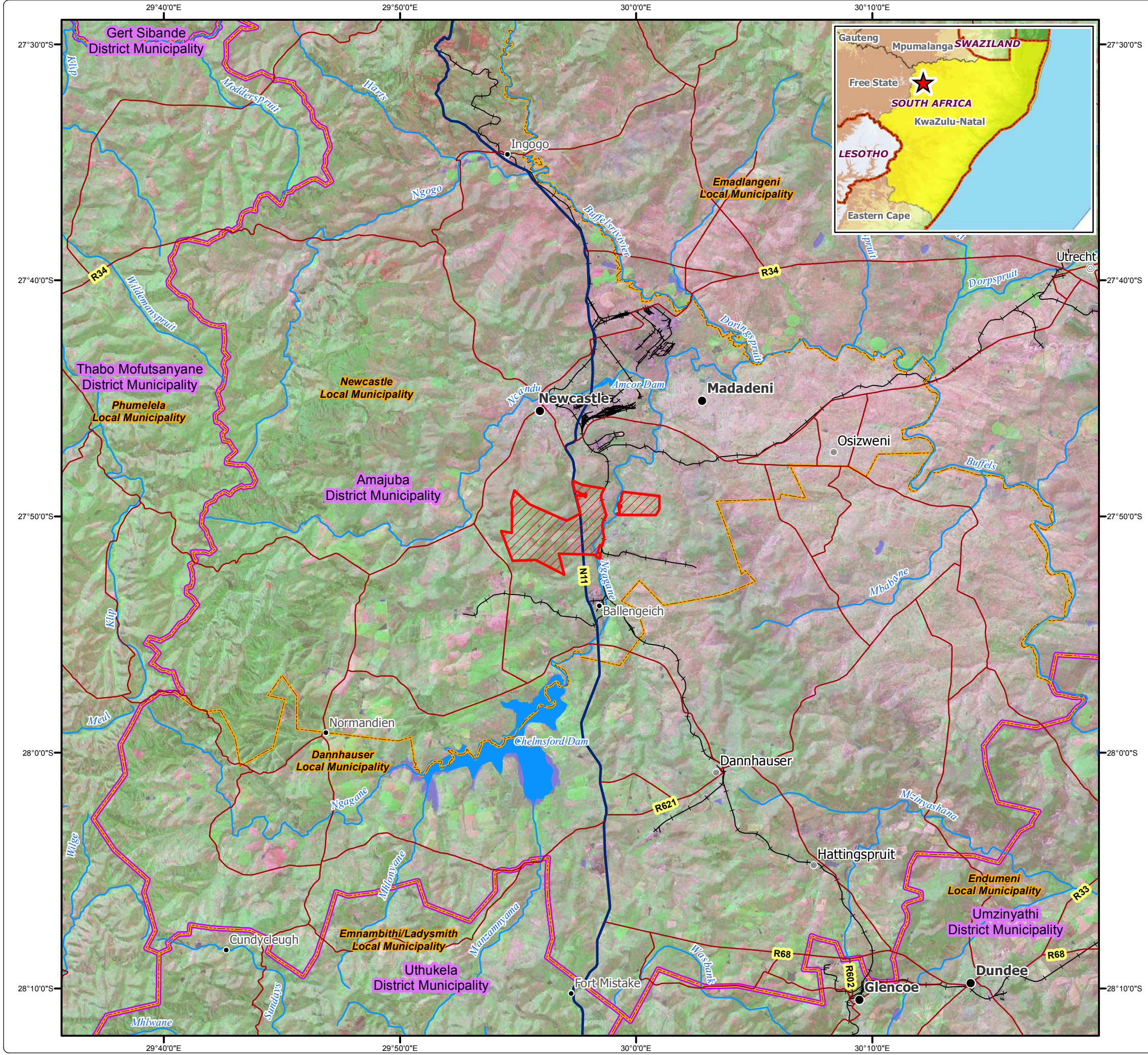



Eskom Kilbarchan Colliery Regional Setting

Legend



-  Mining Licence Boundary
-  Major Town
-  Secondary Town
-  Other Town
-  Settlement
-  Main Road
-  National Road
-  Railway Line
-  River
-  Dam
-  Local Municipal Boundary
-  District Municipal Boundary




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Projection: Transverse Mercator	Ref #: jcf.ESK3520.201604.029
Datum: WGS84	Revision Number: 1
Central Meridian: 29°E	Date: 01/04/2016

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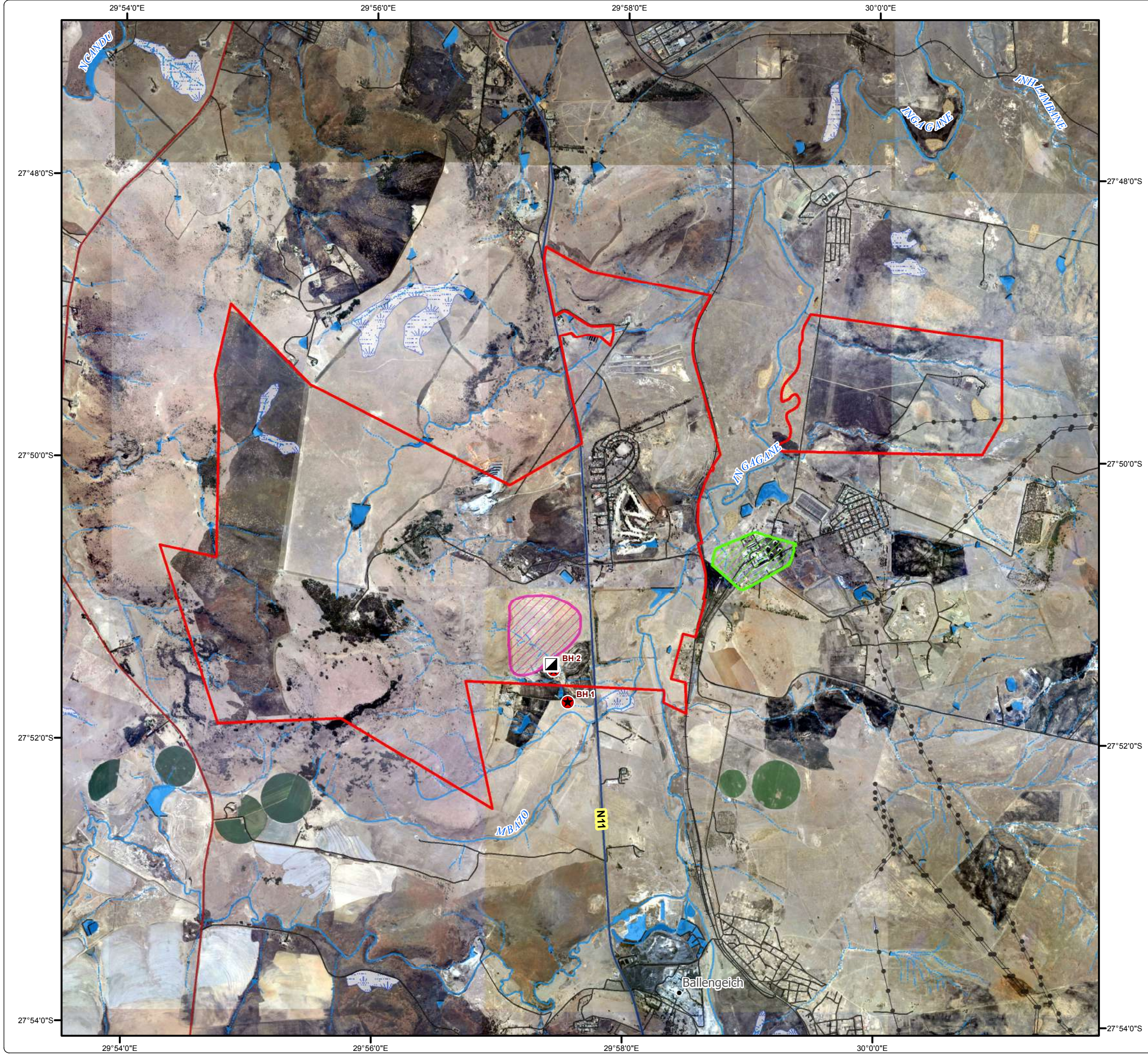
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Local Setting

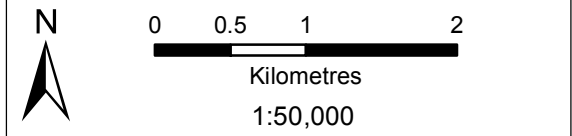
Legend

- Mining Licence Boundary
- Decant Boreholes
- Major Town
- Settlement
- Power Line
- +—+— Railway Line
- Arterial Route
- Main Road
- Minor Road
- Dam Wall
- Perennial Stream
- - - Non - Perennial Stream
- Dam / Lake
- Perennial Pan
- Non - Perennial Pan
- Wetland
- Infrastructure**
- Bioremediation Plant
- Discard Dump
- Powerstation



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Projection: Transverse Mercator	Ref #: jcf.ESK3520.201604.030
Datum: WGS84	Revision Number: 1
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Mine Layout and Rehabilitation Activities

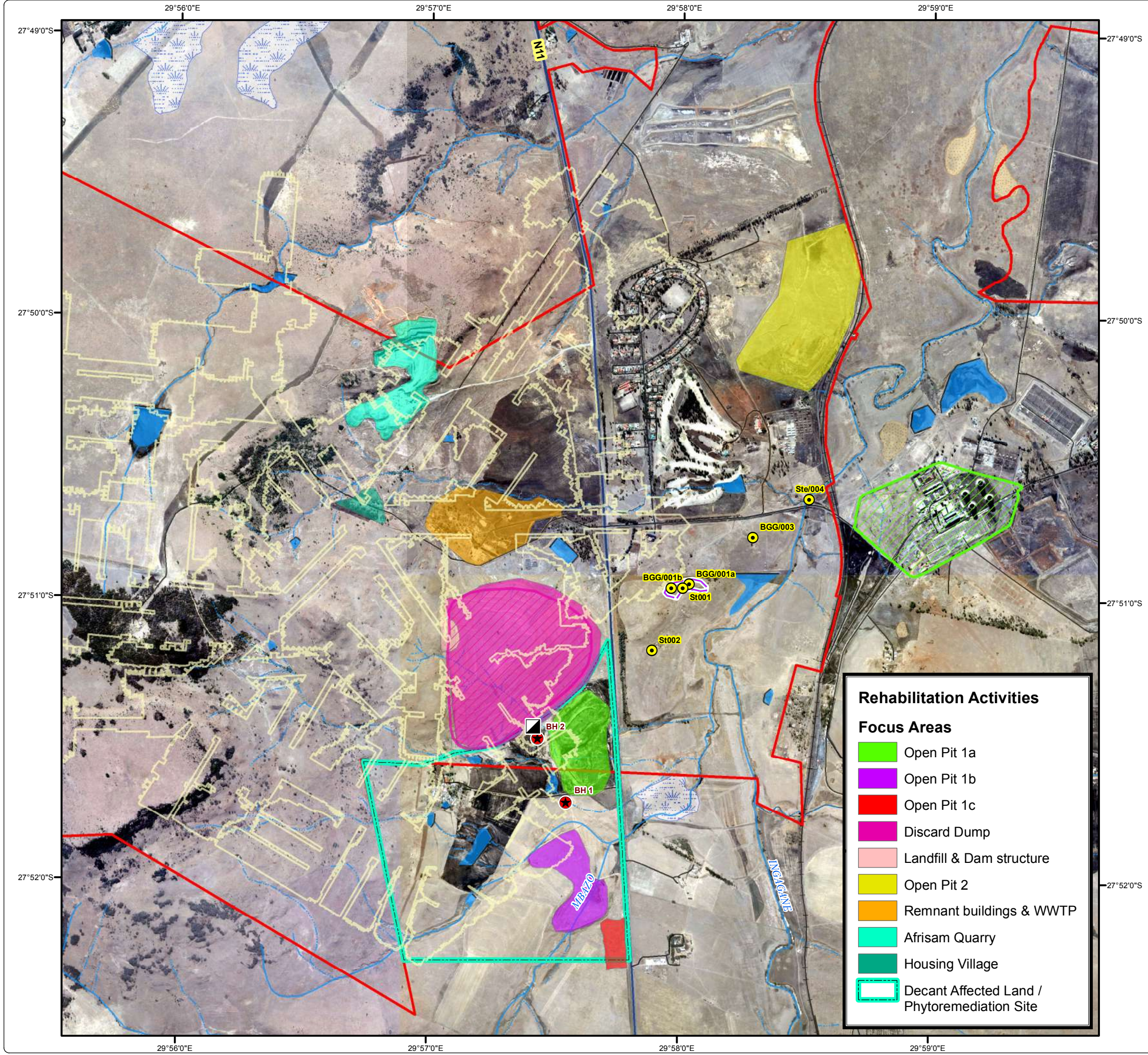
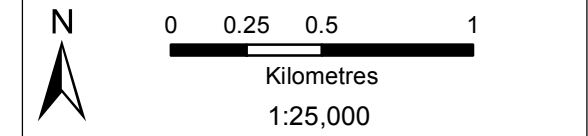
Legend

- Mining Licence Boundary
- Heritage Point
- Power Line
- Arterial Route
- Minor Road
- Railway Line
- Dam Wall
- Perennial Stream
- Non - Perennial Stream
- Dam / Lake
- Perennial Pan
- Non - Perennial Pan
- Wetland
- Heritage Area
- Infrastructure**
- Decant Boreholes
- Bioremediation Plant
- Discard Dump
- Powerstation
- Historical Mine Plan**
- Underground Mining Area

- ### Rehabilitation Activities
- #### Focus Areas
- Open Pit 1a
 - Open Pit 1b
 - Open Pit 1c
 - Discard Dump
 - Landfill & Dam structure
 - Open Pit 2
 - Remnant buildings & WWTP
 - Afrisam Quarry
 - Housing Village
 - Decant Affected Land / Phytoremediation Site














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 Datum: WGS84 Revision Number: 1
 Central Meridian: 29°E Date: 23/08/2016



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Quaternary Catchments

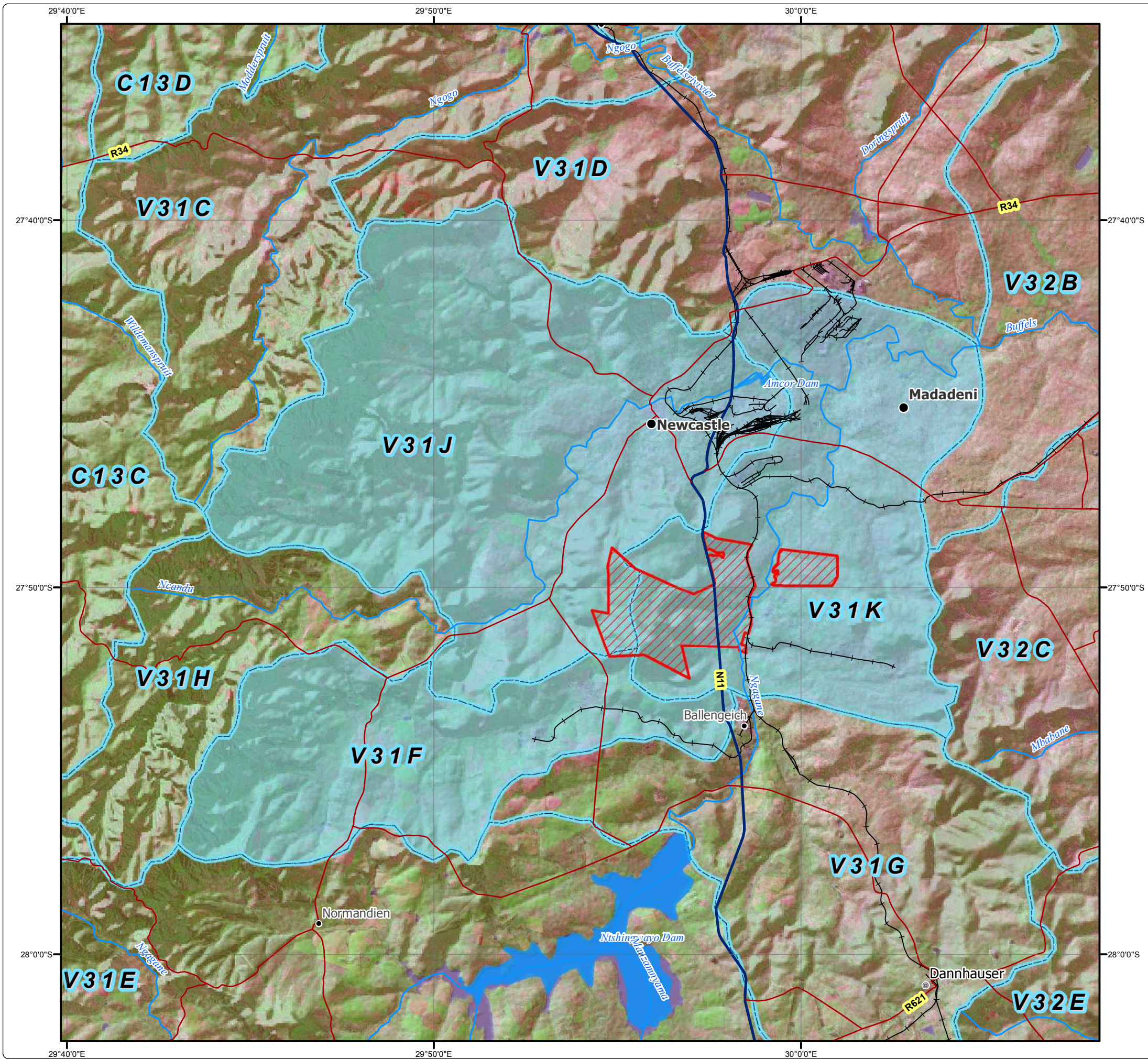
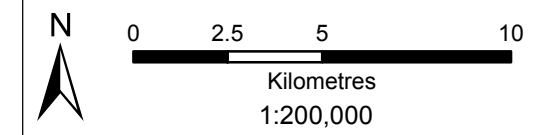
Legend

-  Mining Licence Boundary
-  Major Town
-  Other Town
-  Settlement
-  Main Road
-  National Road
-  Railway Line
-  River
-  Dam
-  Affected Catchments
-  Quaternary Catchment Boundary



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Datum: WGS84 Revision Number: 1
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Surface Water Monitoring Locations

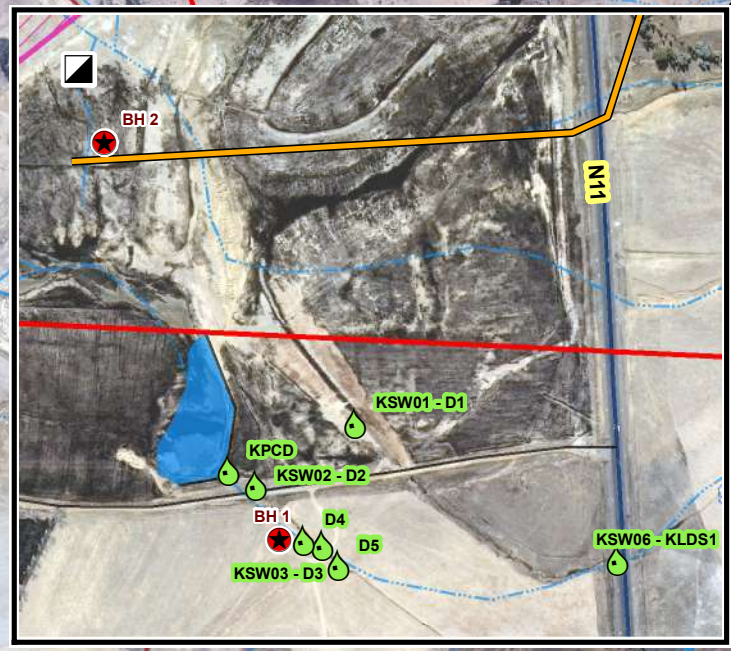
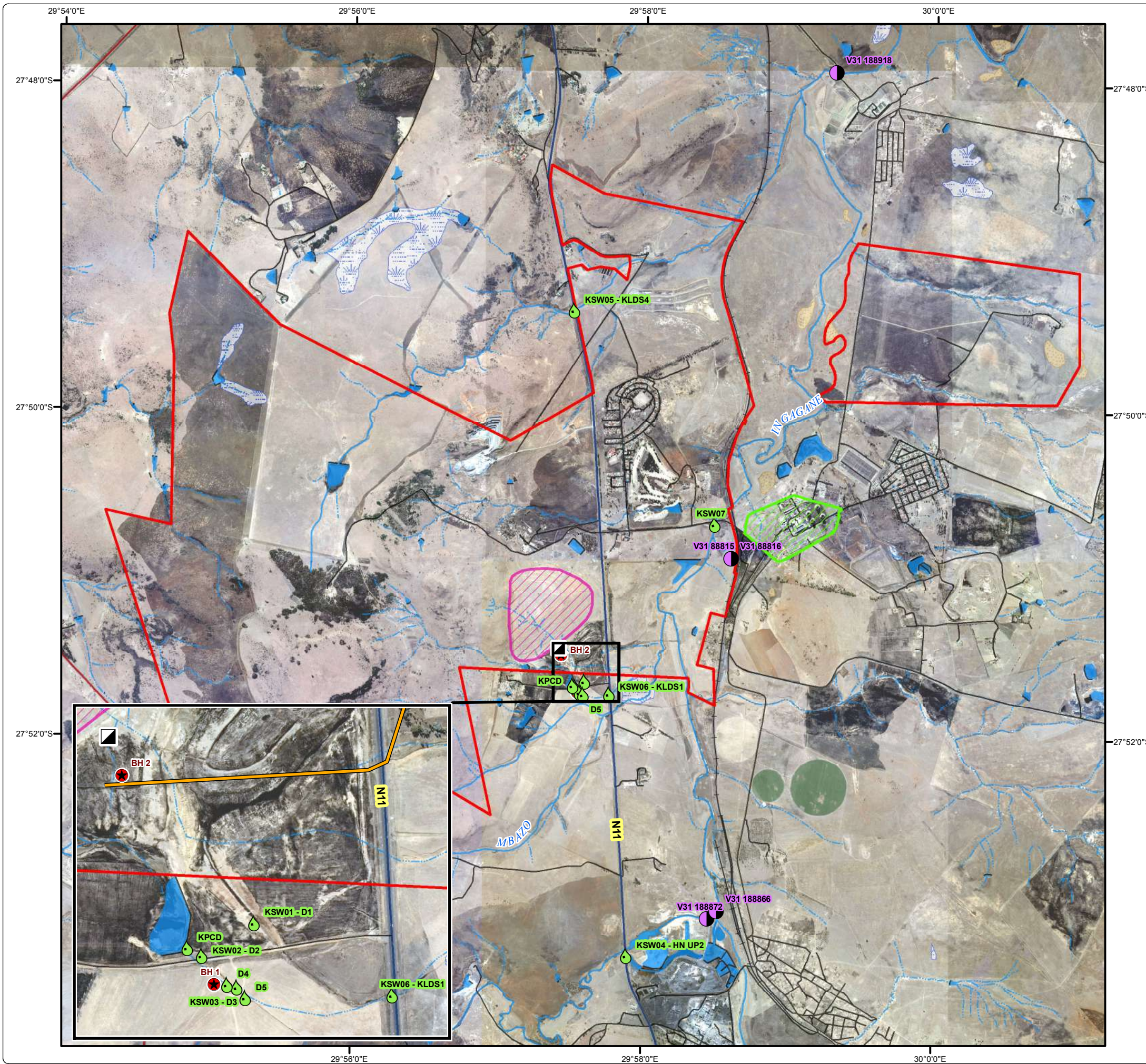
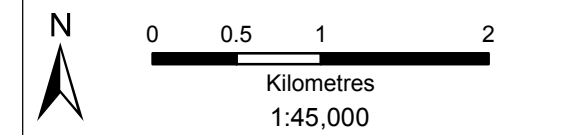
Legend

- Mining Licence Boundary
- Surface Water Monitoring Locations
- Historical Water Quality Points
- Arterial Route
- Minor Road
- +— Railway Line
- Dam Wall
- Perennial Stream
- - - Non - Perennial Stream
- Dam / Lake
- Non - Perennial Pan
- Wetland
- Bioremediation Plant
- Decant Boreholes
- Discard Dump
- Powerstation



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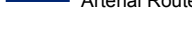
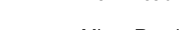


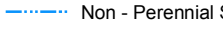
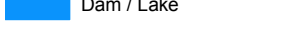
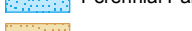




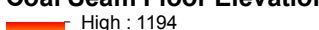
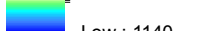



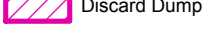
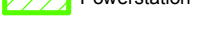
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 Datum: WGS84 Revision Number: 1
 Central Meridian: 29°E Date: 01/04/2016

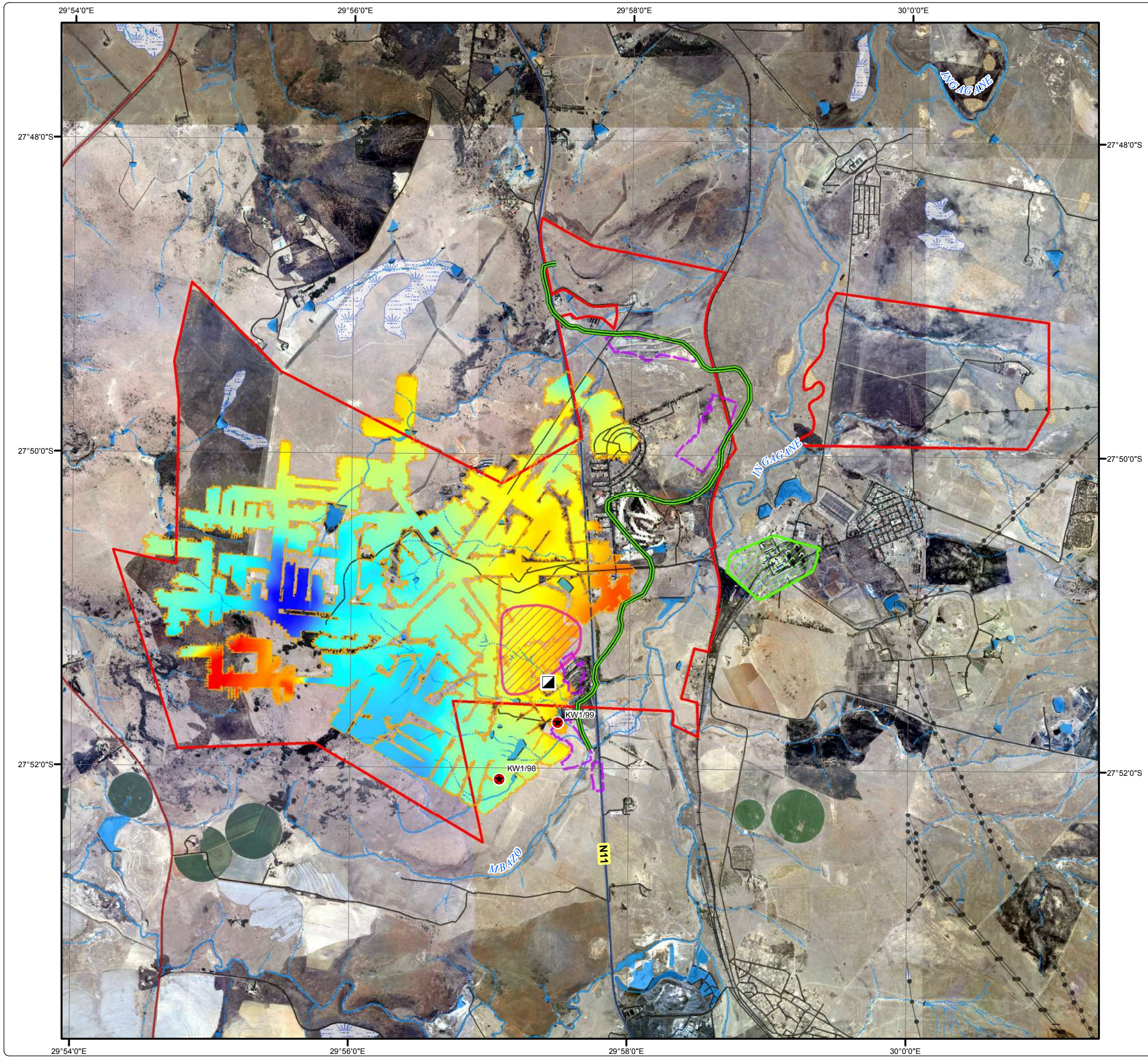


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Coal Seam Floor Elevation

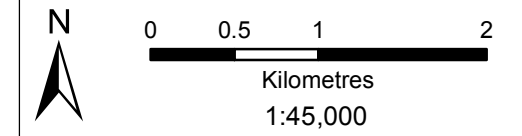
Legend

-  Mining Licence Boundary
 -  Major Town
 -  Settlement
 -  Power Line
 -  Railway Line
 -  Arterial Route
 -  Main Road
 -  Minor Road
 -  Dam Wall
 -  Perennial Stream
 -  Non - Perennial Stream
 -  Dam / Lake
 -  Perennial Pan
 -  Non - Perennial Pan
 -  Wetland
 -  Coal Outcrop
 -  Underground Mining Area
 -  Opencast Area
- Coal Seam Floor Elevation**
 High : 1194

 Low : 1140
-  Bioremediation Plant
 -  Identified Potential Abstraction Boreholes
 -  Discard Dump
 -  Powerstation



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Projection: Transverse Mercator Ref #: jcf.ESK3520.201604.034
 Datum: WGS84 Revision Number: 1
 Central Meridian: 29°E Date: 01/04/2016

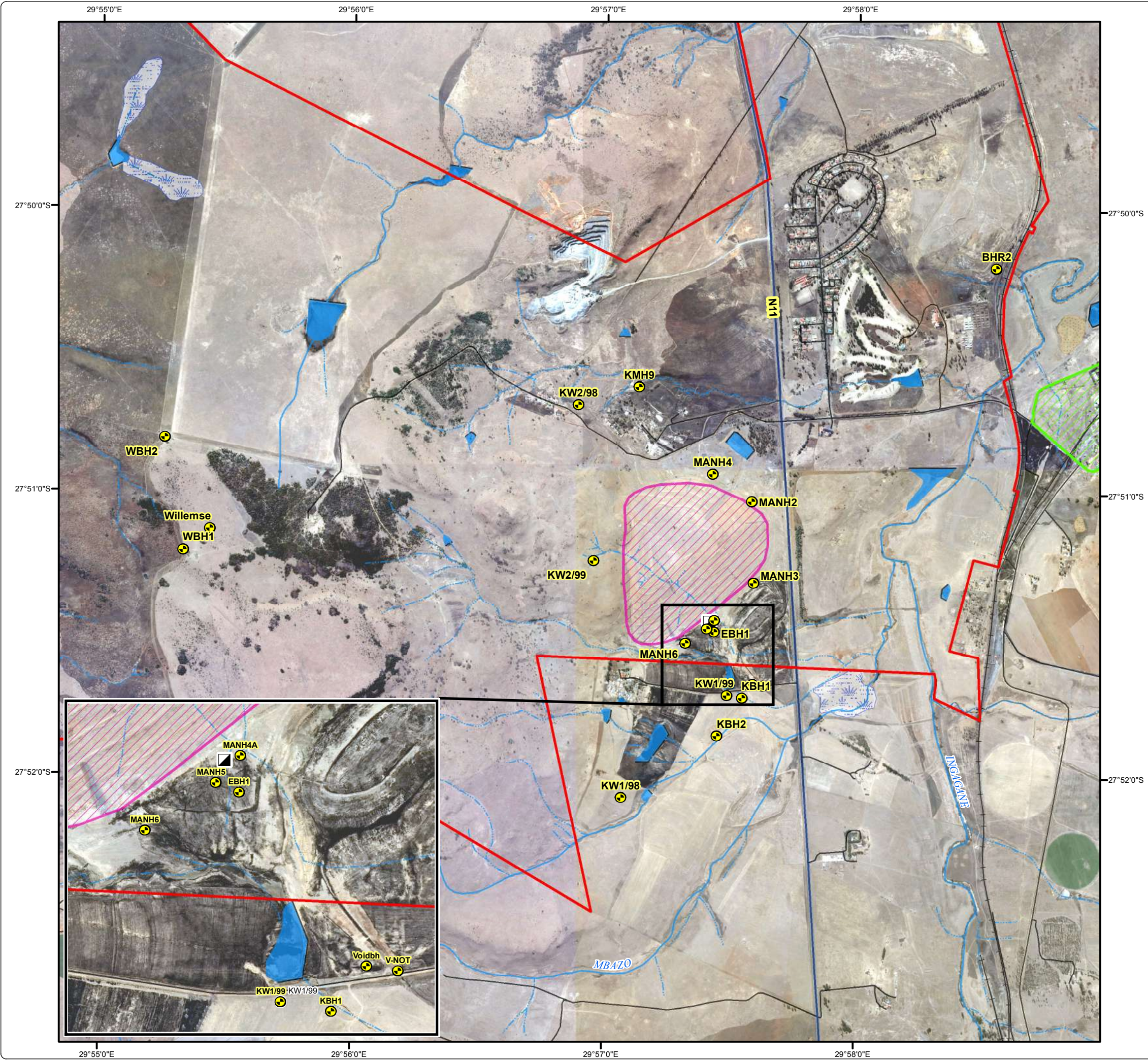


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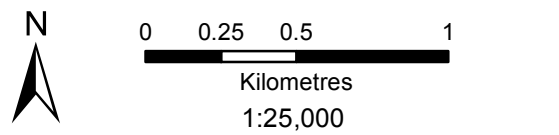
Groundwater Monitoring Points

Legend

- Mining Licence Boundary
- ⊙ Groundwater Monitoring Points
- Railway Line
- Arterial Route
- Minor Road
- Dam Wall
- Perennial Stream
- Non - Perennial Stream
- Dam / Lake
- Non - Perennial Pan
- Wetland
- Bioremediation Plant
- Discard Dump
- Powerstation



Projection: Transverse Mercator Ref #: jcf.ESK3520.201604.035
 Datum: WGS84 Revision Number: 1
 Central Meridian: 29°E Date: 01/04/2016



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Aquatic Monitoring Locations

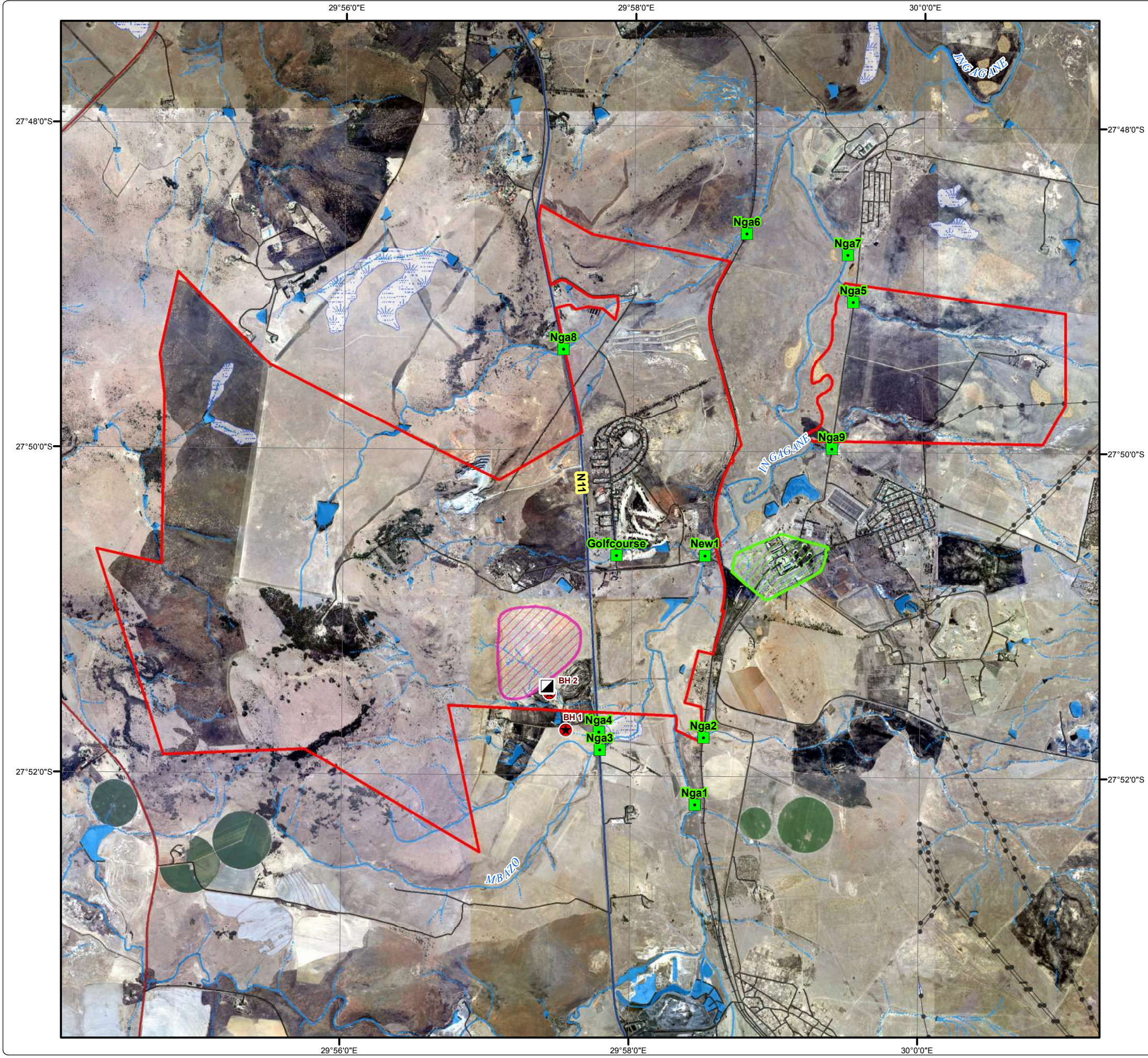
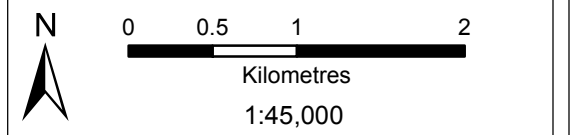
Legend

- Mining Licence Boundary
- Aquatic Sampling Points
- Power Line
- Arterial Route
- Main Road
- Minor Road
- Railway Line
- Dam Wall
- Perennial Stream
- Non - Perennial Stream
- Dam / Lake
- Non - Perennial Pan
- Wetland
- Bioremediation Plant
- * Decant Boreholes
- Discard Dump
- Powerstation



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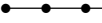

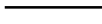
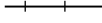







Projection: Transverse Mercator Ref #: jcf.ESK3520.201604.036
 Datum: WGS84 Revision Number: 1
 Central Meridian: 29°E Date: 01/04/2016










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Delineated Wetlands

Legend

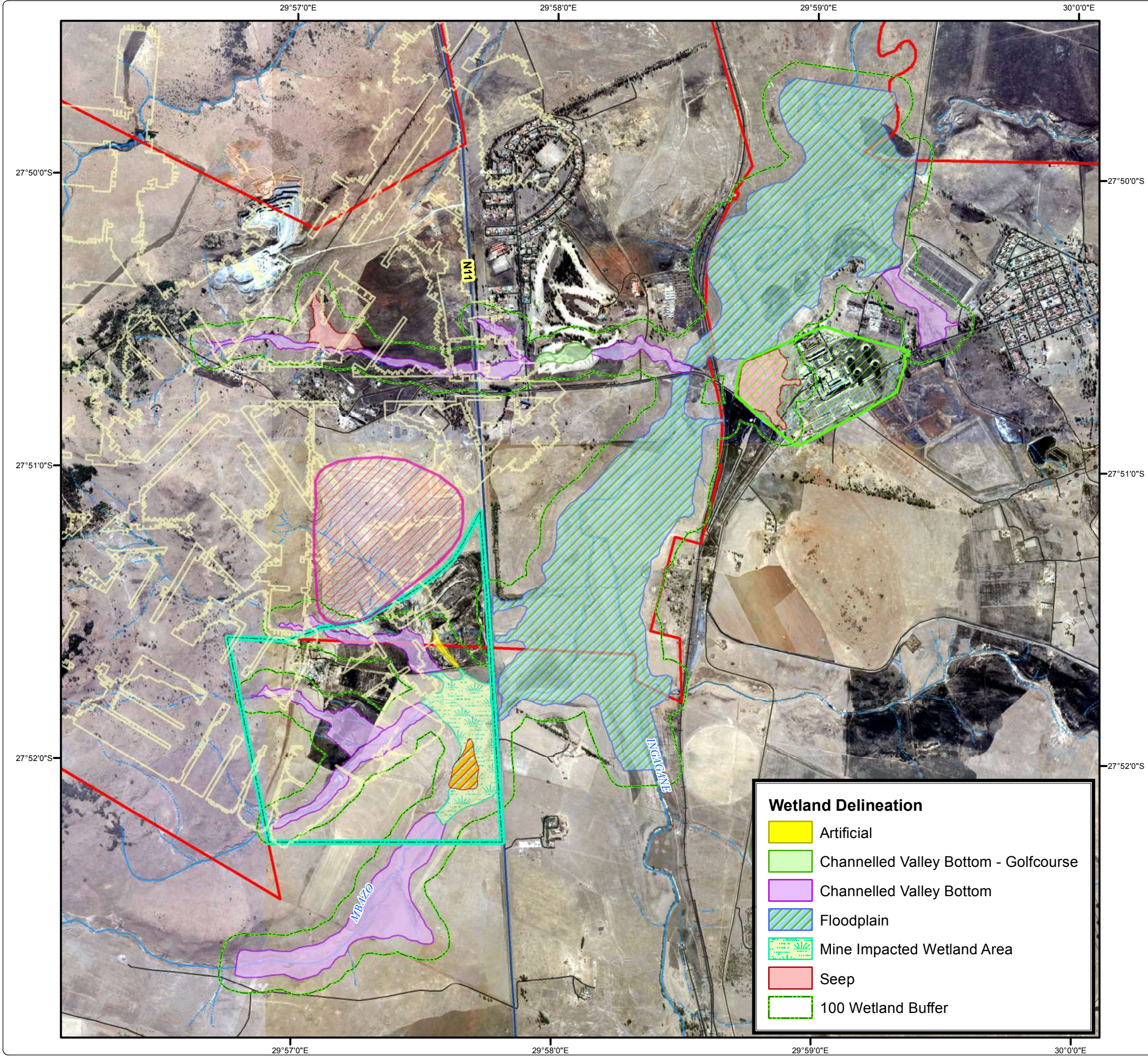
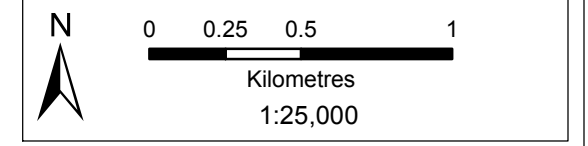
-  Mining Licence Boundary
 -  Decant Affected Land / Phytoremediation Site
 -  Power Line
 -  Arterial Route
 -  Minor Road
 -  Railway Line
 -  Dam Wall
 -  Perennial Stream
 -  Non - Perennial Stream
 -  Discard Dump
 -  Powerstation
 -  High Levels of Mine Affected Water
- Historical Mine Plan**
-  Underground Mining Area

- Wetland Delineation**
-  Artificial
 -  Channelled Valley Bottom - Golfcourse
 -  Channelled Valley Bottom
 -  Floodplain
 -  Mine Impacted Wetland Area
 -  Seep
 -  100 Wetland Buffer



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















Projection: Transverse Mercator Ref #: jcf.ESK3520.201604.037
 Datum: WGS84 Revision Number: 1
 Central Meridian: 29°E Date: 01/04/2016



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Heritage Resources

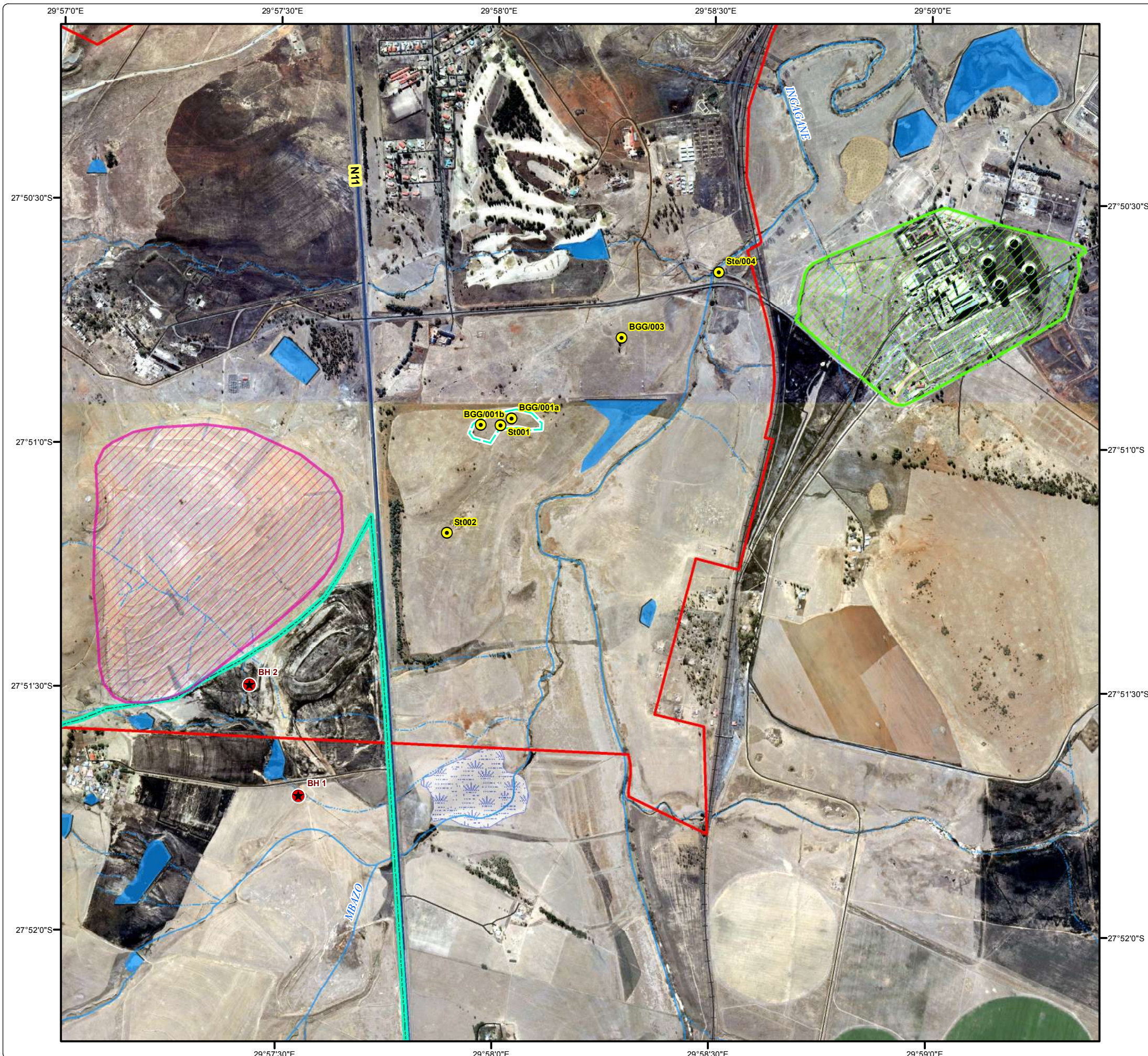
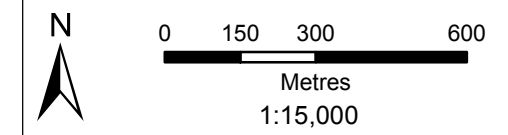
Legend

-  Mining Licence Boundary
-  Decant Affected Land / Phytoremediation Site
-  Power Line
-  Arterial Route
-  Minor Road
-  Railway Line
-  Dam Wall
-  Perennial Stream
-  Non - Perennial Stream
-  Dam / Lake
-  Non - Perennial Pan
-  Wetland
-  Decant Boreholes
-  Discard Dump
-  Powerstation
- Heritage Resources**
-  Heritage Point
-  Heritage Area



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Projection: Transverse Mercator Ref #: jcf.ESK3520.201604.038
 Datum: WGS84 Revision Number: 1
 Central Meridian: 29°E Date: 04/04/2016



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Phytoremediation Layout

Legend

Mining Licence Boundary

Decant Affected Land / Phytoremediation Site

Arterial Route

Minor Road

Dam Wall

Perennial Stream

Non - Perennial Stream

Dam / Lake

Non - Perennial Pan

Wetland

Phytoremediation Species

Combretum erythrophyllum and *Chrysopogon zizanioides*

Eucalyptus camaldulensis / *Combretum erythrophyllum*

Sporobolus spicatus and *Chrysopogon zizanioides*

Tamarix usneoides

Decant Boreholes

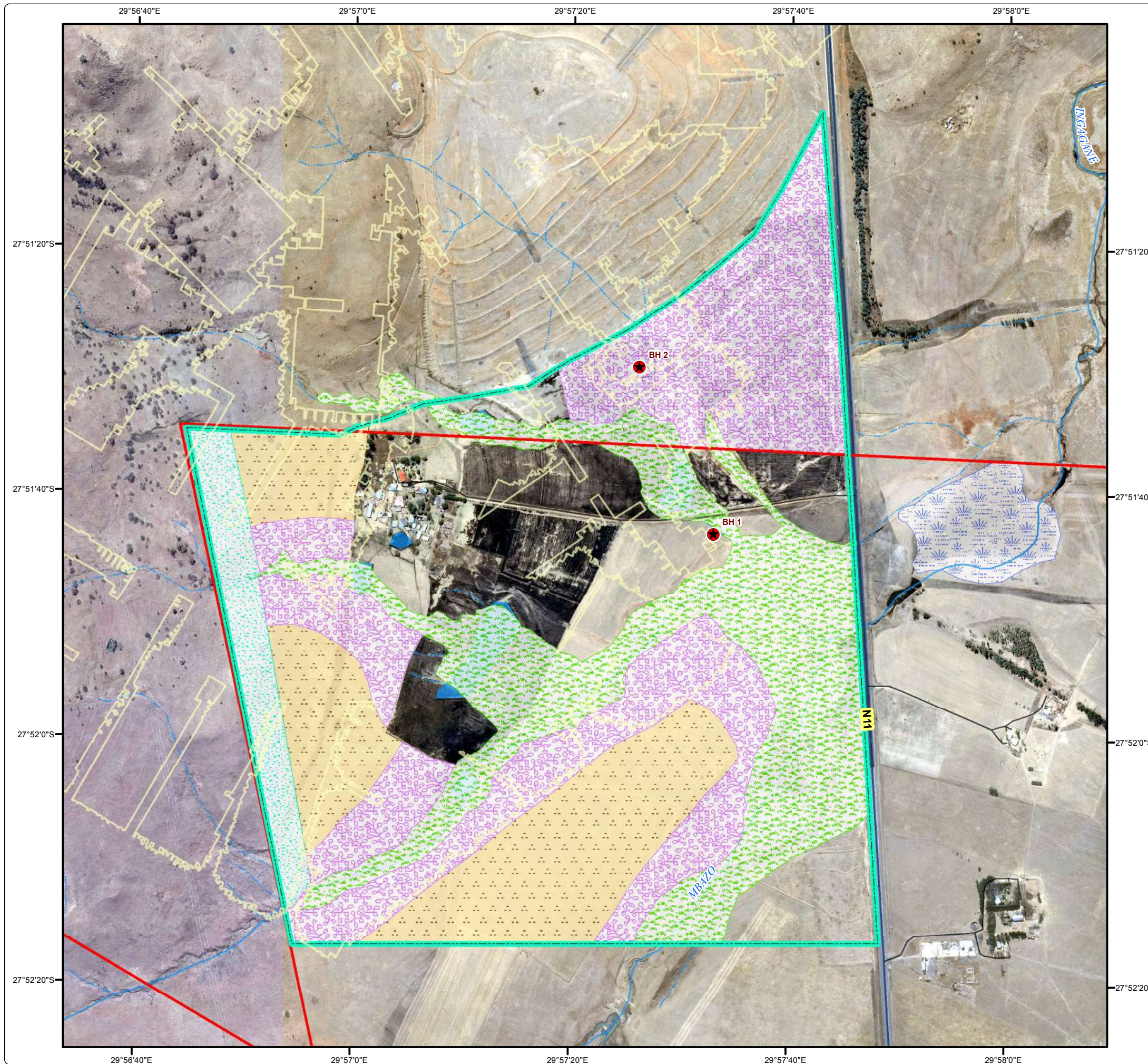
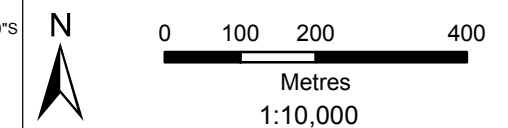
Historical Mine Plan

Underground Mining Area


















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Projection: Transverse Mercator Ref #: jcf.ESK3520.201604.039
Datum: WGS84 Revision Number: 1
Central Meridian: 29°E Date: 04/04/2016















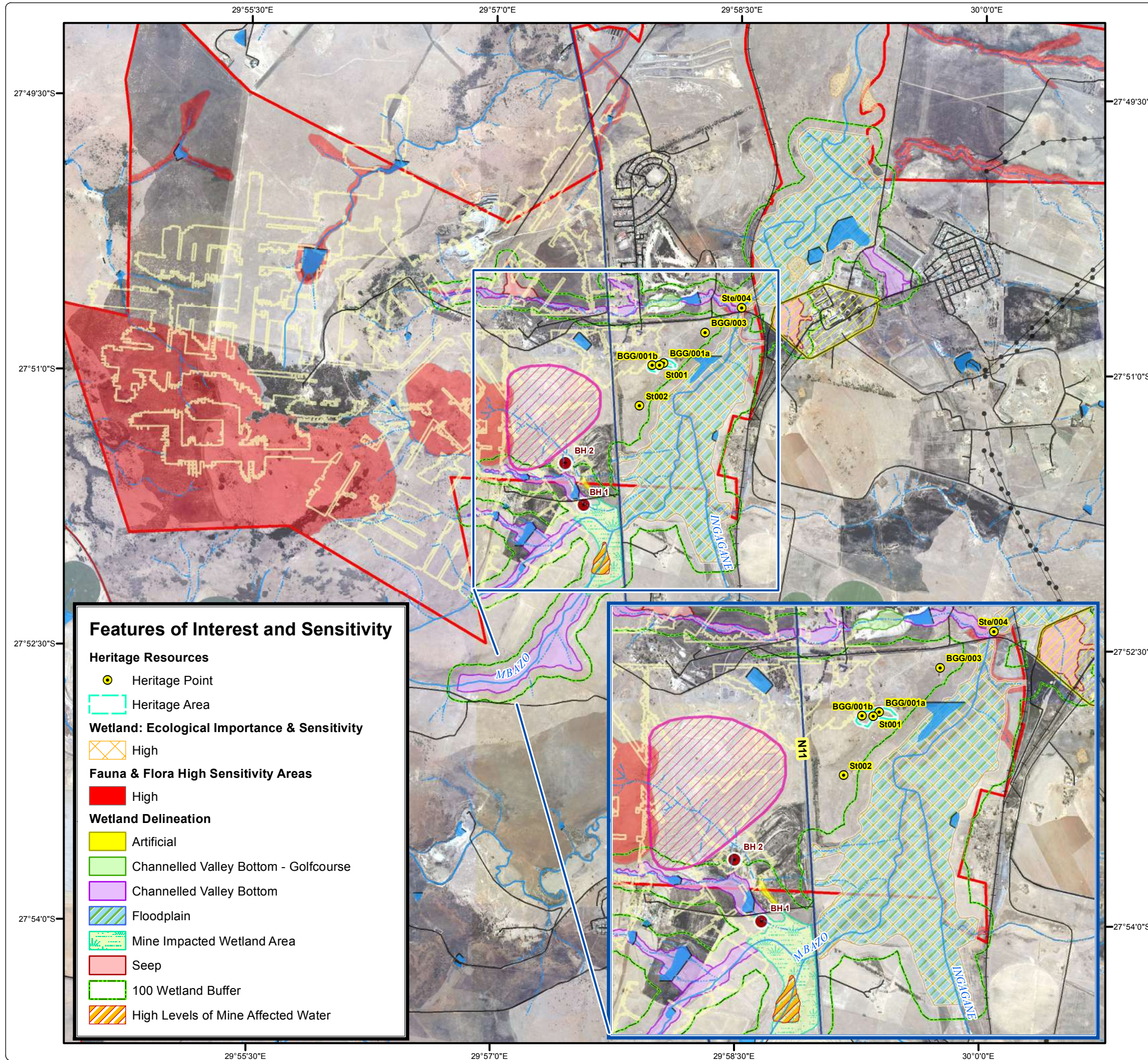
Eskom Kilbarchan Colliery Composite Plan

Legend

-  Mining Licence Boundary
-  Power Line
-  Railway Line
-  Arterial Route
-  Main Road
-  Minor Road
-  Dam Wall
-  Perennial Stream
-  Non - Perennial Stream
-  Dam / Lake
-  Non - Perennial Pan
- Infrastructure**
-  Decant Boreholes
-  Discard Dump
-  Power Station
- Historical Mine Plan**
-  Underground Mining Area

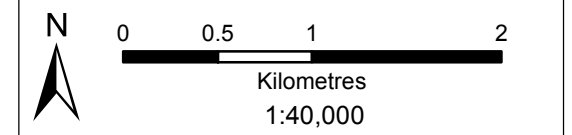
Features of Interest and Sensitivity

- Heritage Resources**
-  Heritage Point
-  Heritage Area
- Wetland: Ecological Importance & Sensitivity**
-  High
- Fauna & Flora High Sensitivity Areas**
-  High
- Wetland Delineation**
-  Artificial
-  Channelled Valley Bottom - Golfcourse
-  Channelled Valley Bottom
-  Floodplain
-  Mine Impacted Wetland Area
-  Seep
-  100 Wetland Buffer
-  High Levels of Mine Affected Water



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Projection: Transverse Mercator Ref #: jcf.ESK3520.201604.028
 Datum: WGS84 Revision Number: 1
 Central Meridian: 29°E Date: 01/04/2016



Eskom Kilbarchan Colliery Site Notices

Focus Areas

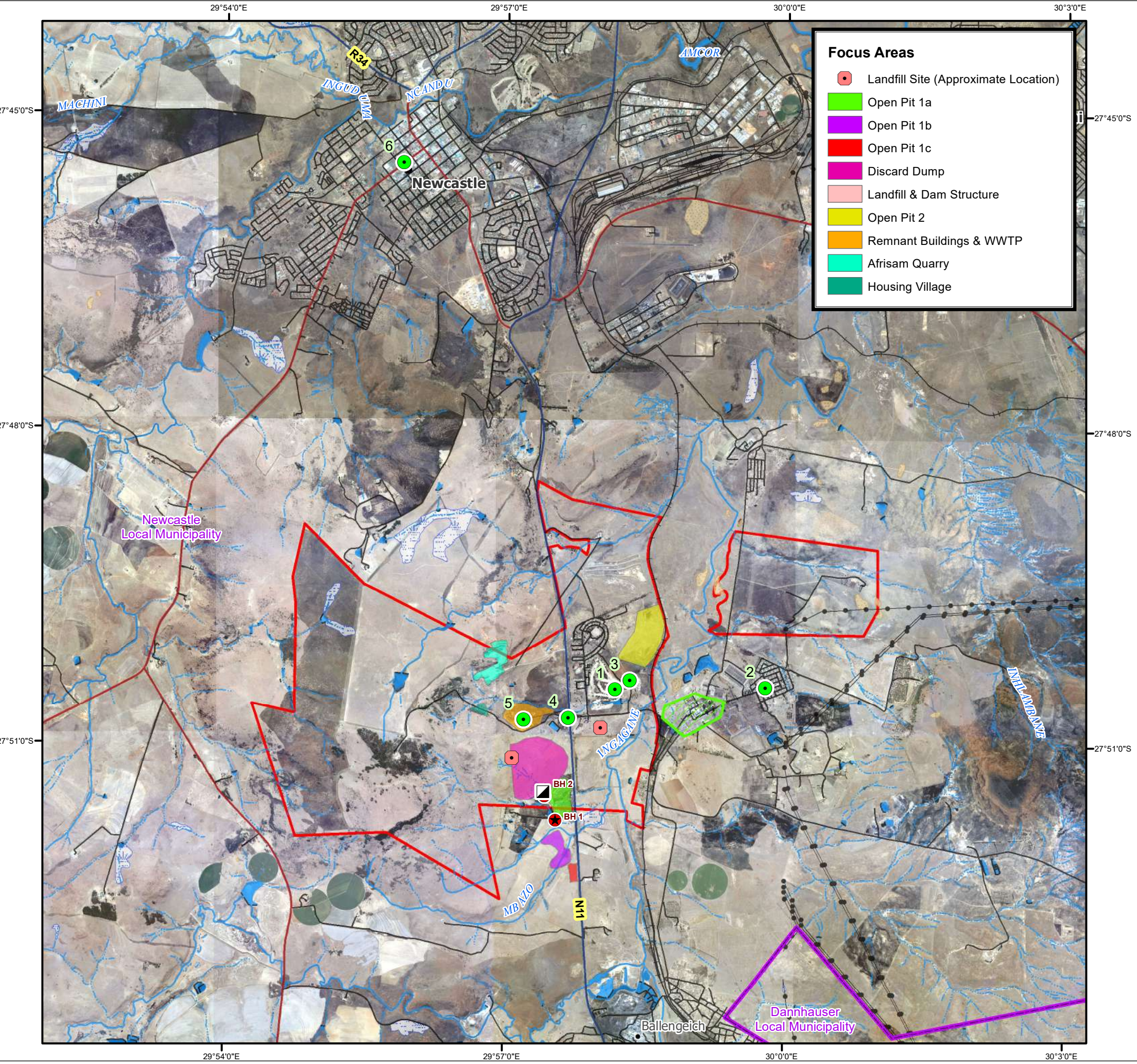
- Landfill Site (Approximate Location)
- Open Pit 1a
- Open Pit 1b
- Open Pit 1c
- Discard Dump
- Landfill & Dam Structure
- Open Pit 2
- Remnant Buildings & WWTP
- Afrisam Quarry
- Housing Village


Legend

- Mining Licence Boundary
- Major Town
- Settlement
- Site Notices
- Power Line
- National / Arterial Road
- Main Road
- Minor Road
- +— Railway Line
- Perennial Stream
- - - Non - Perennial Stream
- Dam Wall
- Dam / Lake
- Non - Perennial Pan
- Wetland
- Local Municipal Boundary

Infrastructure

- Bioremediation Plant
- Decant Boreholes
- Power Station






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Projection: Transverse Mercator	Ref #: jcf.ESK3520.201610.027
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