


















MWTP

Regional Setting

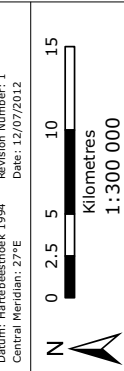
- ### Legend
-  Marapong Wastewater Treatment Plant
 -  Proposed MBET Pipeline
 -  Railway Servitude
 -  Major Town
 -  Other Town
 -  Secondary Town
 -  Settlement
 -  Existing Railway Line
 -  Non-Perennial Stream
 -  Perennial Stream
 -  Main Road
 -  Secondary Road
 -  Dams
 -  Boikarabelo Project Area
 -  Boikarabelo Mining Right Area
 -  International Boundary
 -  Magisterial District Boundary



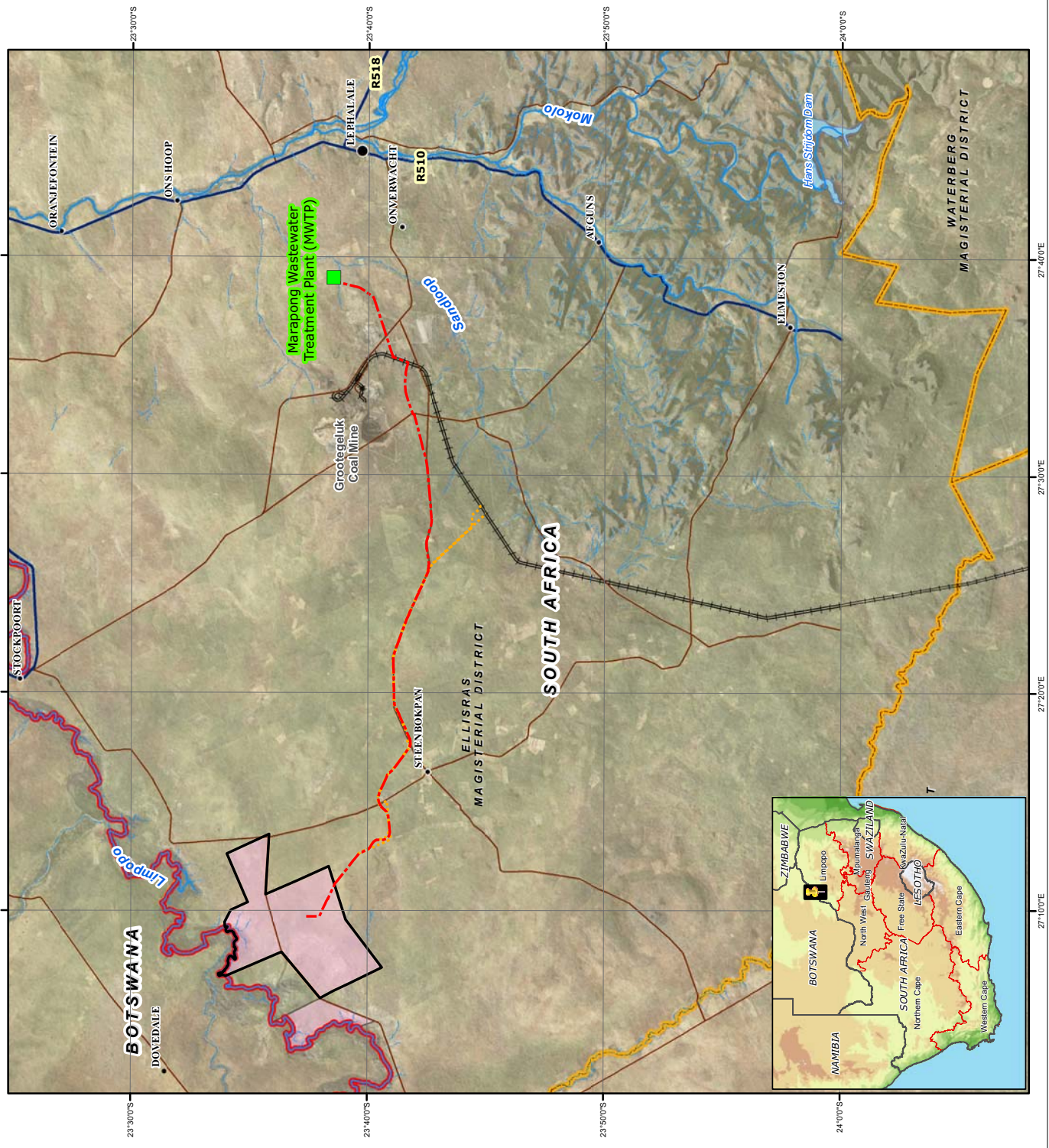
DIGBY WELLS
ENVIRONMENTAL

Tel: +27 11 789 9495

Ref #: amc/RES/116.201.201.097
Revision Number: 1
Datum: Hartebeesthoek 1994
Central Meridian: 27°E










© Digby Wells & Associates



MWTP

Land Tenure

Legend

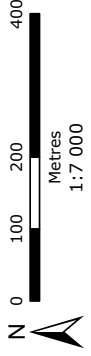
-  Project Area
-  Proposed MBET Pipeline
-  Layout: Sewage Plant Module 1
-  Layout: Sewage Plant Module 2
-  Non-Perennial Stream
-  Farms Surrounding Pipeline
-  Portions Surrounding Pipeline



DIGBY WELLS
ENVIRONMENTAL

www.digbywells.com

Projection: Transverse Mercator Ref #: amc.RES.1166.201204.045
Datum: Hartbeesthoek 1994 Revision Number: 1
Central Meridian: 27°E Date: 12/07/2012



MWTP

Regional Geology

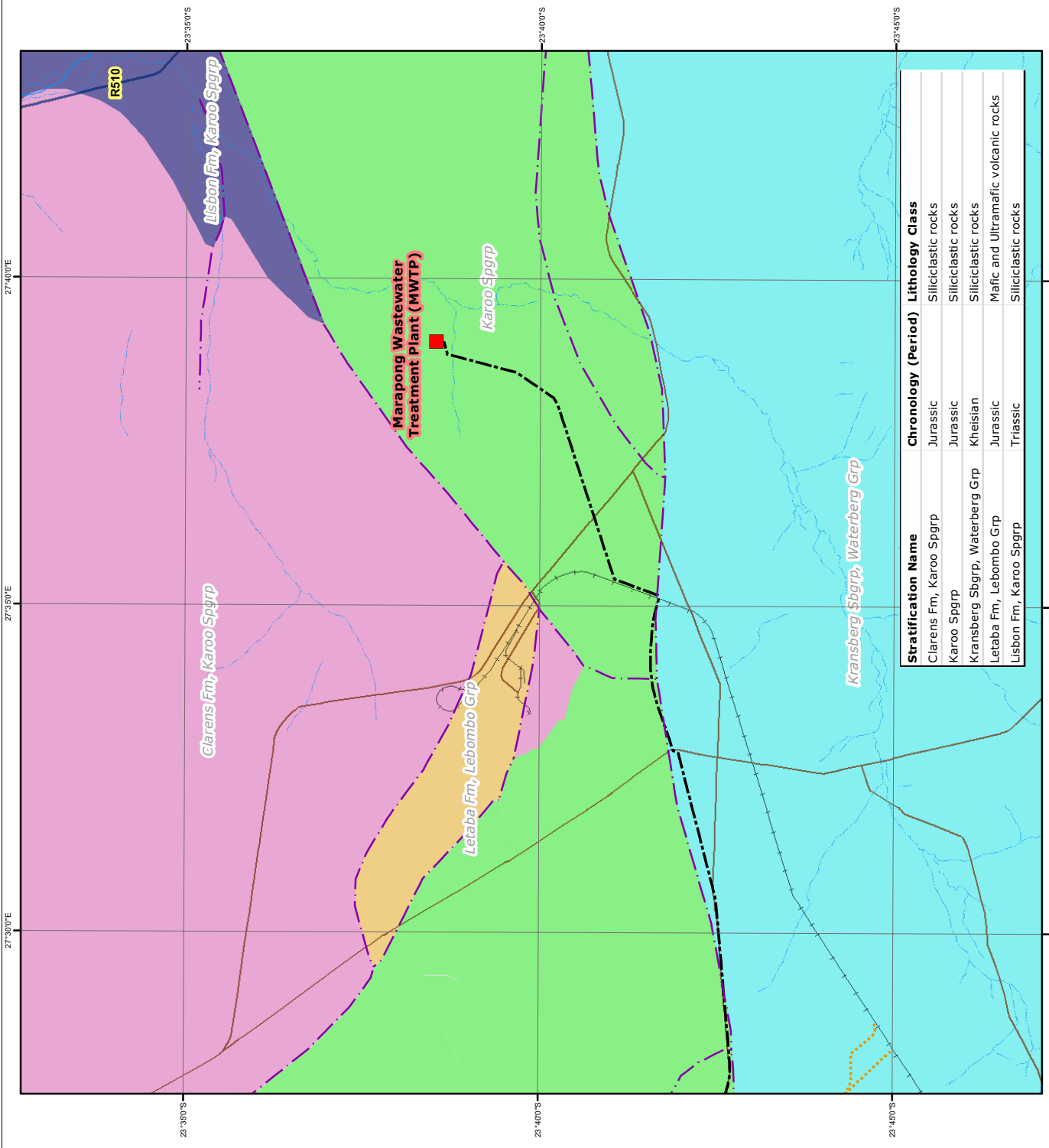
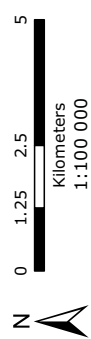
- Legend**
- Marapong Wastewater Treatment Plant
 - Proposed MBET Pipeline
 - Railway Servitude
 - Geological Structures (Observed Faults)
 - Non-Perennial Stream
 - Perennial Stream
 - Main Road
 - Secondary Road
 - Existing Railway Line

Geology

- Clarens Formation, Karoo Supergroup
- Karoo Supergroup
- Kransberg Subgroup, Waterberg Group
- Letaba Formation, Lebombo Group
- Lisbon Formation, Karoo Supergroup



www.digbywells.com
 Projection: Transverse Mercator Ref #: amc:RES1.166.201204.047
 Datum: Hartbeesthoek 1994 Revision Number: 1
 Central Meridian: 27°E Date: 12/07/2012













Stratification Name	Chronology (Period)	Lithology Class
Clarens Fm, Karoo Spgrp	Jurassic	Siliciclastic rocks
Karoo Spgrp	Jurassic	Siliciclastic rocks
Kransberg Sbggrp, Waterberg Grp	Kheisian	Siliciclastic rocks
Letaba Fm, Lebombo Grp	Jurassic	Mafic and Ultramafic volcanic rocks
Lisbon Fm, Karoo Spgrp	Triassic	Siliciclastic rocks

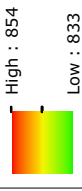
MWTP

Topography

Legend

-  Project Area
-  Proposed MBET Pipeline
-  Layout: Sewage Plant Module 1
-  Layout: Sewage Plant Module 2
-  Contours (5m)
-  Non-Perennial Stream
-  Perennial Stream
-  Dam
-  Farms Surrounding Pipeline
-  Portions Surrounding Pipeline

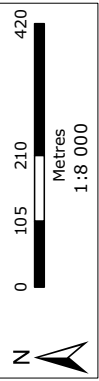
Elevation (m.a.m.s.l)



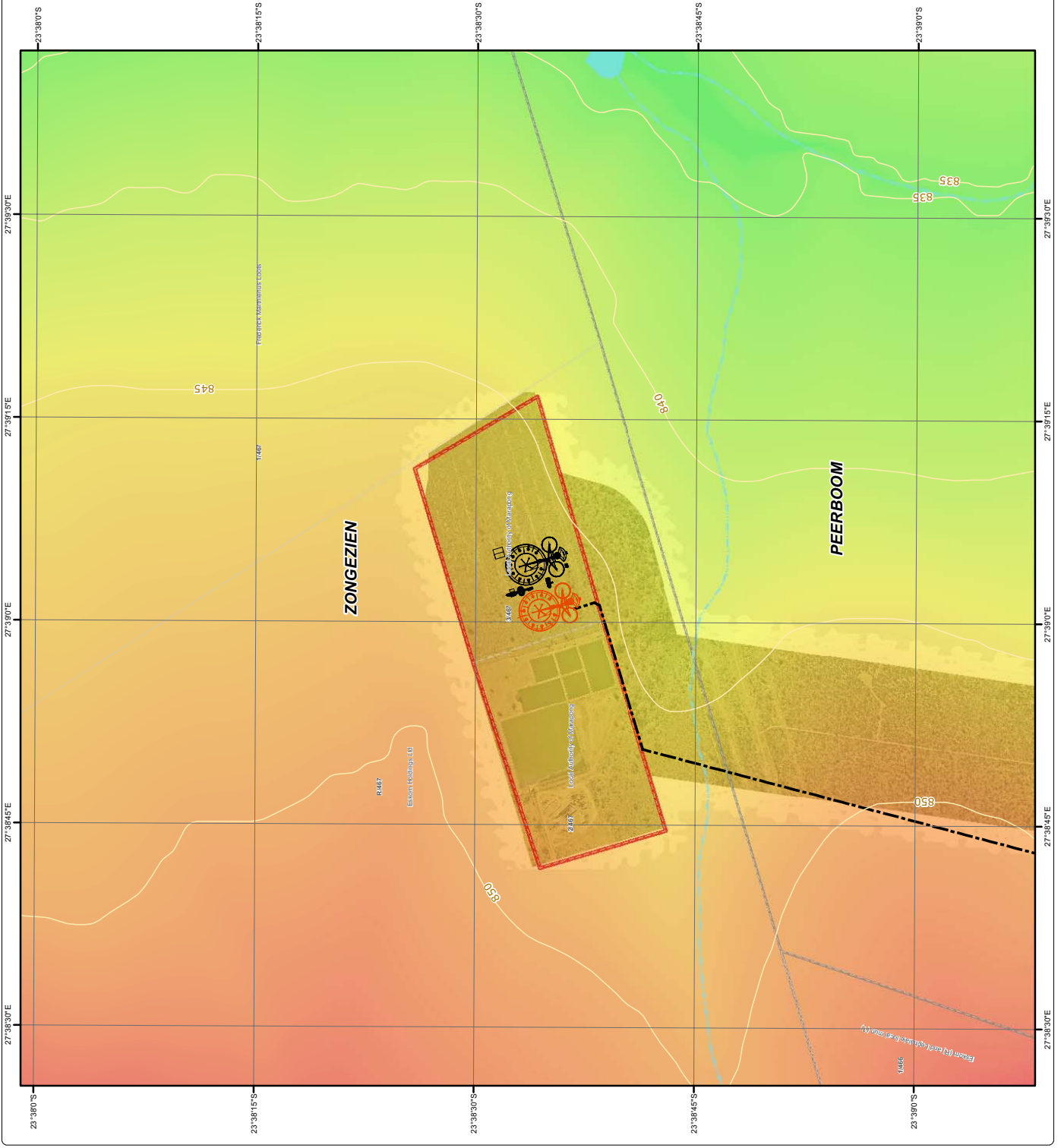
DIGBY WELLS
ENVIRONMENTAL

www.digbywells.com

Projection: Transverse Mercator Ref : amc:RES1.166.201204.044
Datum: Hartbeesthoek 1994 Revision Number: 1
Central Meridian: 27°E Date: 12/07/2012















© Digby Wells Environmental



MWTP

Land Type and Soil

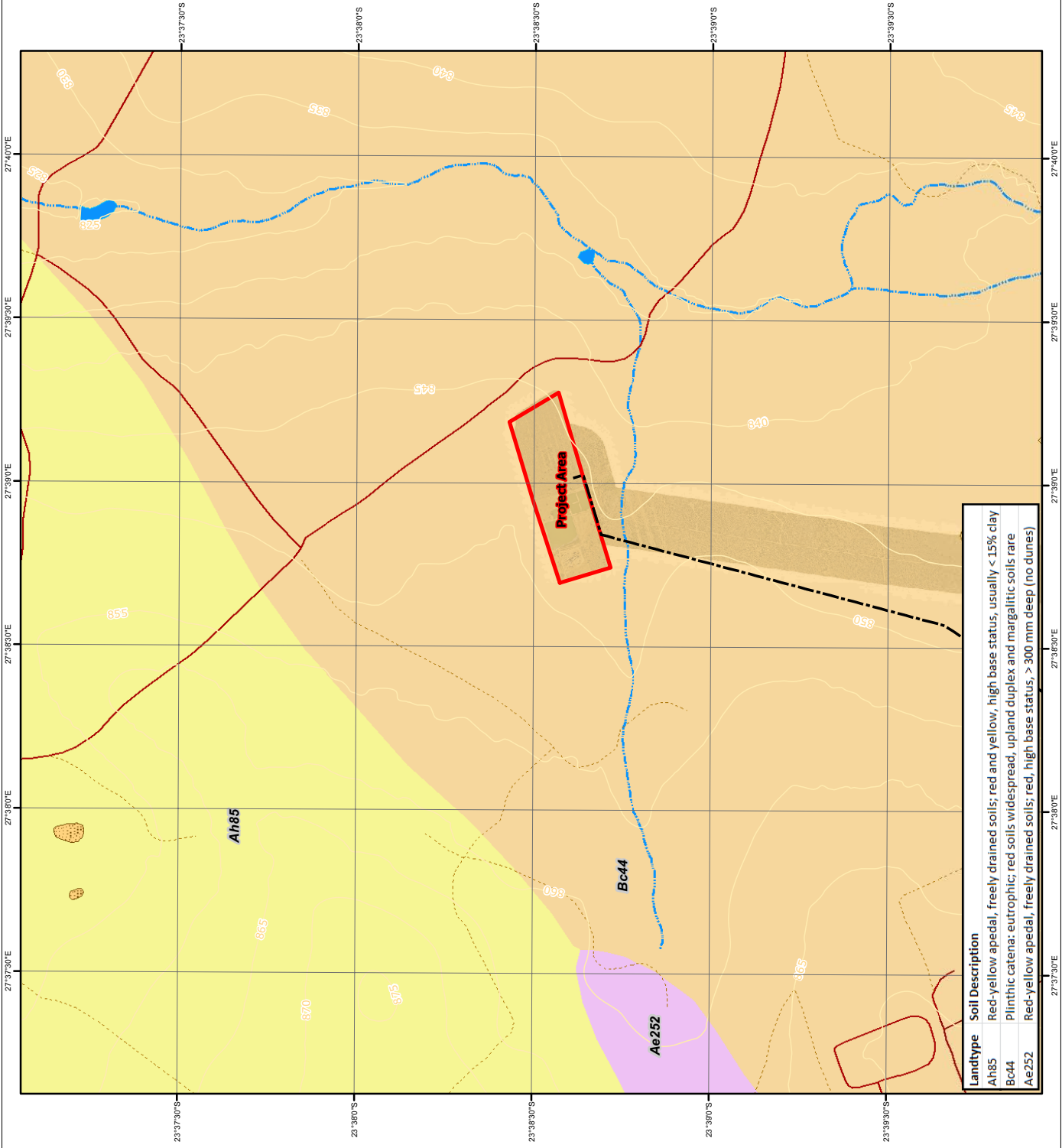
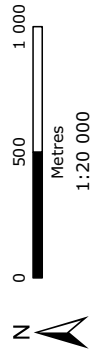
Legend

-  Project Area
 -  Proposed MBET Pipeline
 -  Roads
 -  Tracks
 -  Contours (5m)
 -  Non-Perennial Stream
 -  Dam / Lake
 -  Perennial Pan
 -  Non-Perennial Pan / Stream
- Land Type**
-  Ae252
 -  Ah85
 -  Bc44



DIGBY WELLS ENVIRONMENTAL
www.digbywells.com

Projection: Transverse Mercator Ref # : tdm:RES1166,201211.155
Datum: Hartbeesthoek 1994 Revision Number: 1
Central Meridian: 27°E Date: 22/11/2012



Landtype	Soil Description
Ah85	Red-yellow apedal, freely drained soils; red and yellow, high base status, usually < 15% clay
Bc44	Plinthic catena: eutrophic; red soils widespread, upland duplex and marginal soils rare
Ae252	Red-yellow apedal, freely drained soils; red, high base status; > 300 mm deep (no dunes)

MWTP

Land Use

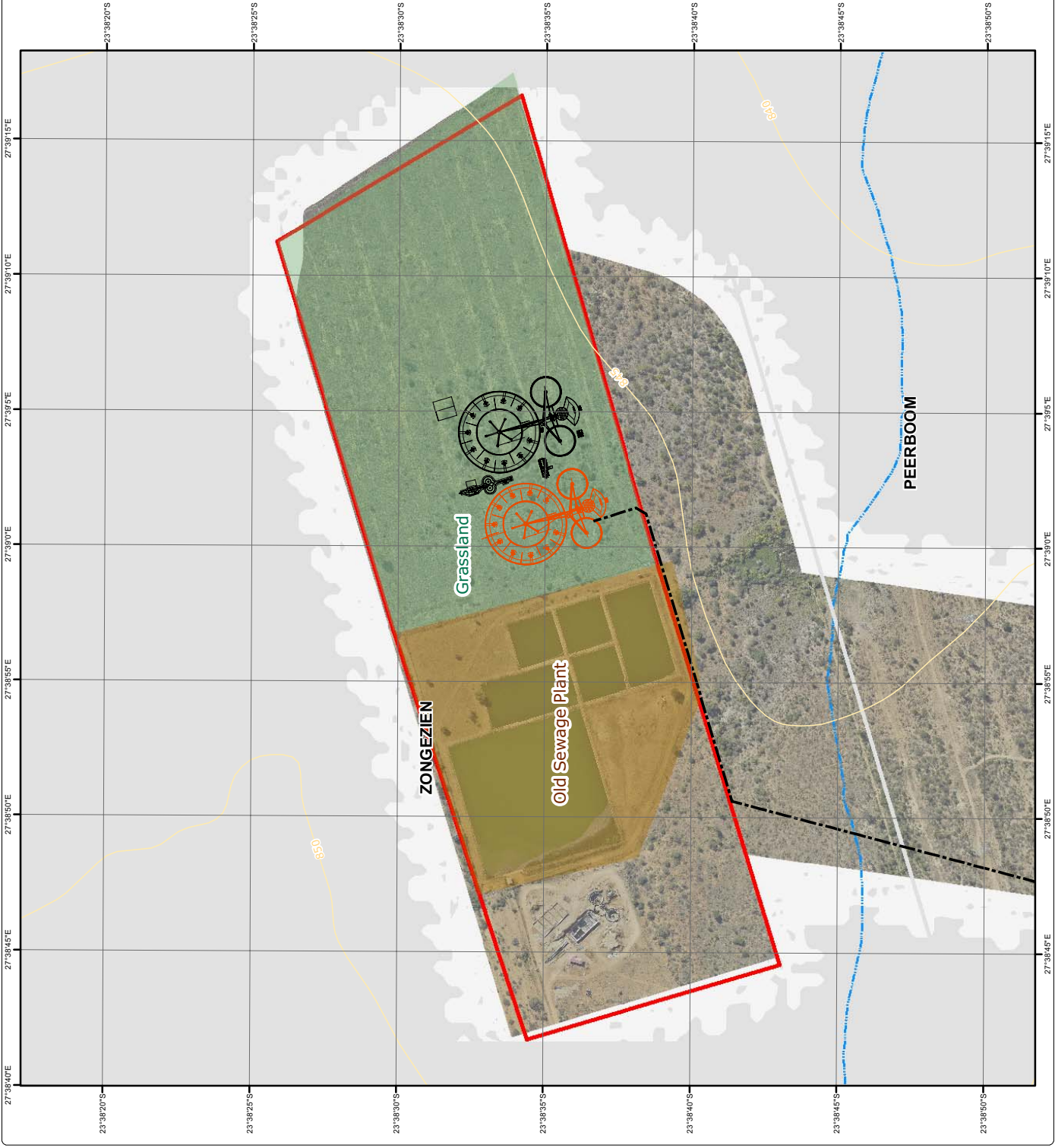
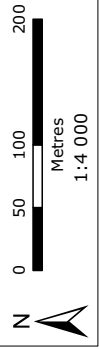
Legend

- Project Area
 - Proposed MBET Pipeline
 - Layout: Sewage Plant Module 1
 - Layout: Sewage Plant Module 2
 - Contours (5m)
 - Non-Perennial Stream
 - Farms Surrounding Pipeline
- ### Land Use
- Grassland
 - Old Sewage Plant












DIGBY WELLS
ENVIRONMENTAL

www.digbywells.com
Projection: Transverse Mercator Ref #: amc RES1166,201204,046
Datum: Hartbeesthoek 1994 Revision Number: 1
Central Meridian: 27°E Date: 12/07/2012



MWTP

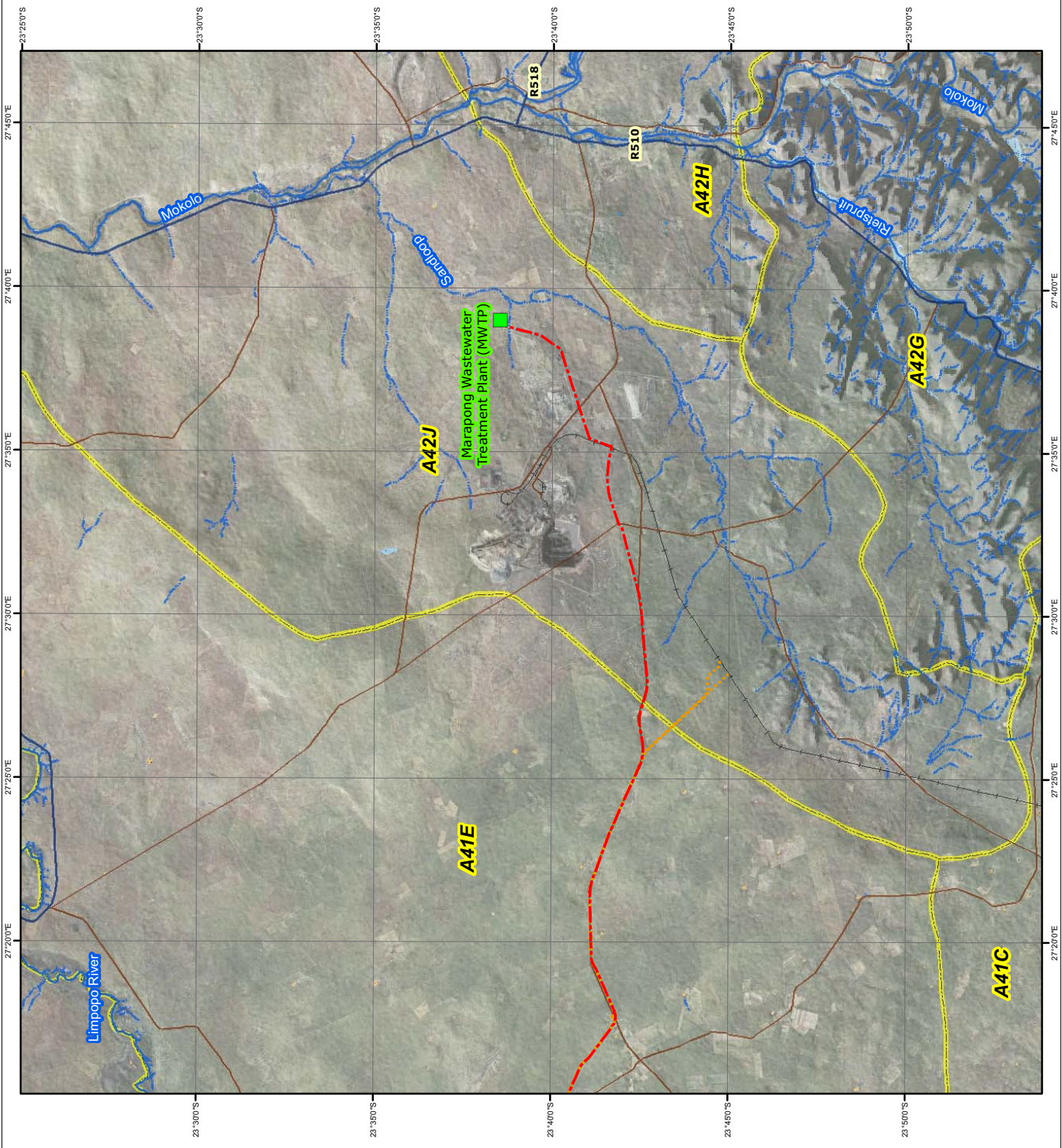
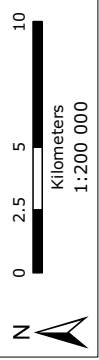
Quaternary Catchments

- Legend**
-  Marapong Wastewater Treatment Plant
 -  Quaternary Catchment Boundaries
 -  Proposed MBET Pipeline
 -  Railway Servitude
 -  Main Road
 -  Secondary Road
 -  Existing Railway Line
 -  Non-Perennial Stream
 -  Perennial Stream



DIGBY WELLS
ENVIRONMENTAL

www.digbywells.com
Projection: Transverse Mercator Ref #: amc RES1166,201204,048
Datum: Hartbeesthoek 1994 Revision Number: 1
Central Meridian: 27°E Date: 12/07/2012



MWTP

Heritage Resources

Legend

- Archaeology Point
- Treatment Plant Infrastructure
- Archaeology Tracks
- Proposed MBET Pipeline
- Portions Surrounding Pipeline



DIGBY WELLS ENVIRONMENTAL
www.digbywells.com

Projection: Transverse Mercator Ref #: amc RES.1166.201203.121
Datum: Hartheeshoek 1994 Revision Number: 1
Central Meridian: 27°E Date: 29/03/2012

