
Appendix E - Figures (Infrastructure impacts)

Infrastructure impacts are presented for the following scenarios and at various locations where impacts have occurred.

1% AEP Nominated design levels. Provides spot levels including 300mm above water surface for critical infrastructure proximate to flooded areas.

1% AEP Velocity. Provides indicative velocity for infrastructure proximate to flooded areas. Can be used to assess erosion and hazard.







1% AEP Depth. Provides flood depth for infrastructure proximate to flooded areas. Can be used to assess hazard in conjunction with velocity.

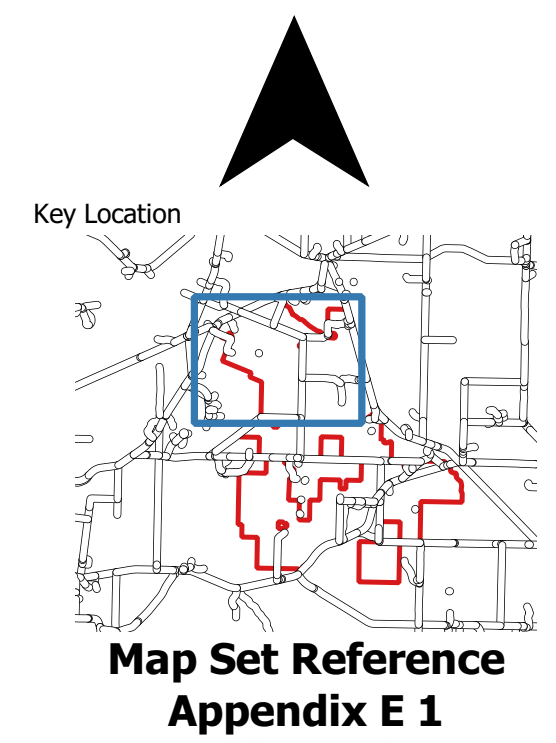
10% AEP Velocity.

10% AEP Depth.

10% AEP Bed Shear Stress.

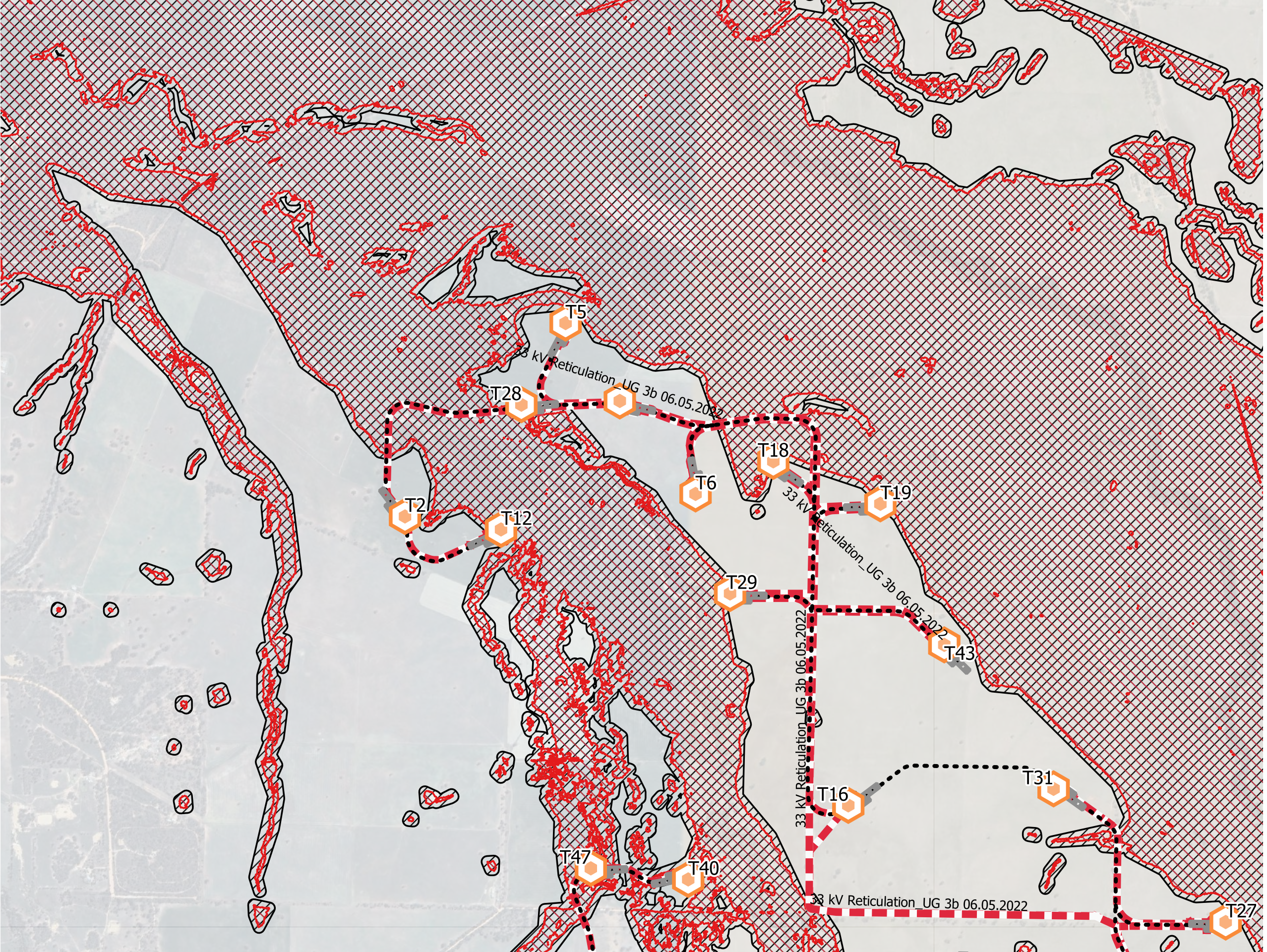
10-% AEP Hazard classification.

-  Wind Turbines
-  Wind Turbine Base
-  Access Tracks
-  Electrical Reticulation
-  1pc Flood Extent
- PLAN_OVERLAY
 -  FO
 -  LSIO

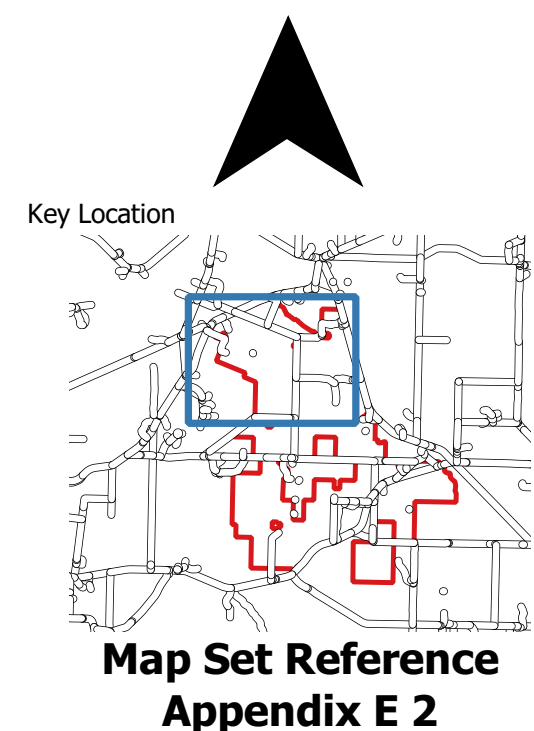


Source: data.vic.gov, Google Satellite 2022

WATTA WELLA RENEWABLE ENERGY PROJECT-
HYDROLOGY AND FLOOD ASSESSMENT
1% AEP Flood extent and Planning overlay









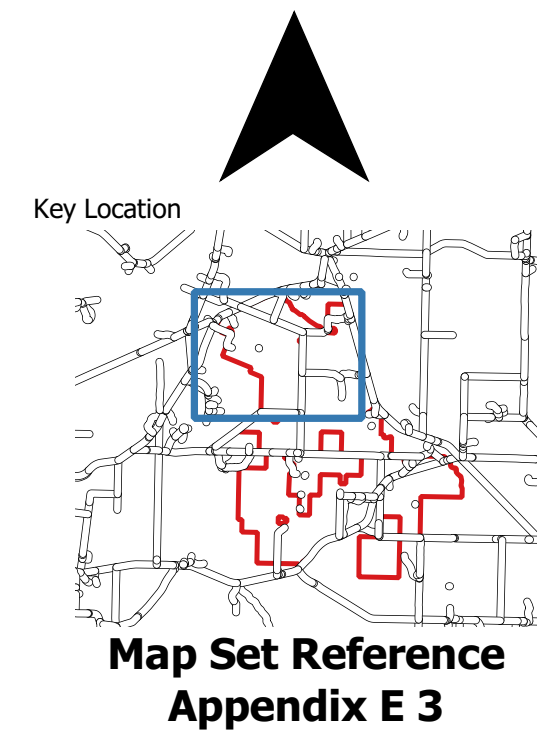
- Wind Turbines
- Wind Turbine Base
- Access Tracks
- Electrical Reticulation
- 1pc Flood Extent
- 1pc_Flood_30m buffer



Source: data.vic.gov, Google Satellite 2023







WATTA WELLA RENEWABLE ENERGY PROJECT-
HYDROLOGY AND FLOOD ASSESSMENT
1% AEP Flood extent and assessment buffer

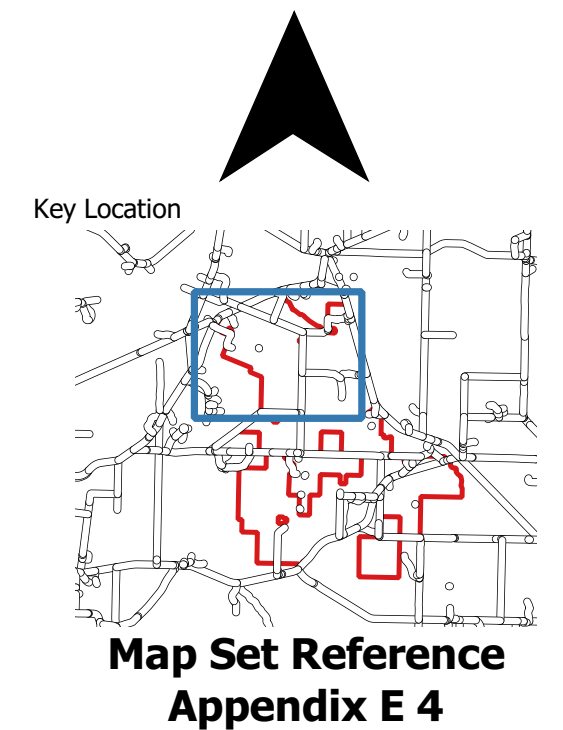
-  Wind Turbines
-  Wind Turbine Base
-  Access Tracks
-  Electrical Reticulation
-  05e_Flood_Extent_5m_60min
-  05e_Flood_30m buffer



Source: data.vic.gov, Google Satellite 2024

WATTA WELLA RENEWABLE ENERGY PROJECT- HYDROLOGY AND FLOOD ASSESSMENT 39.35% AEP Flood extent and assessment buffer





-  Wind Turbines
-  Wind Turbine Base
-  Access Tracks
-  Electrical Reticulation
-  10pc_Flood_Extent_5m_60min
-  10pc_Flood_30m buffer

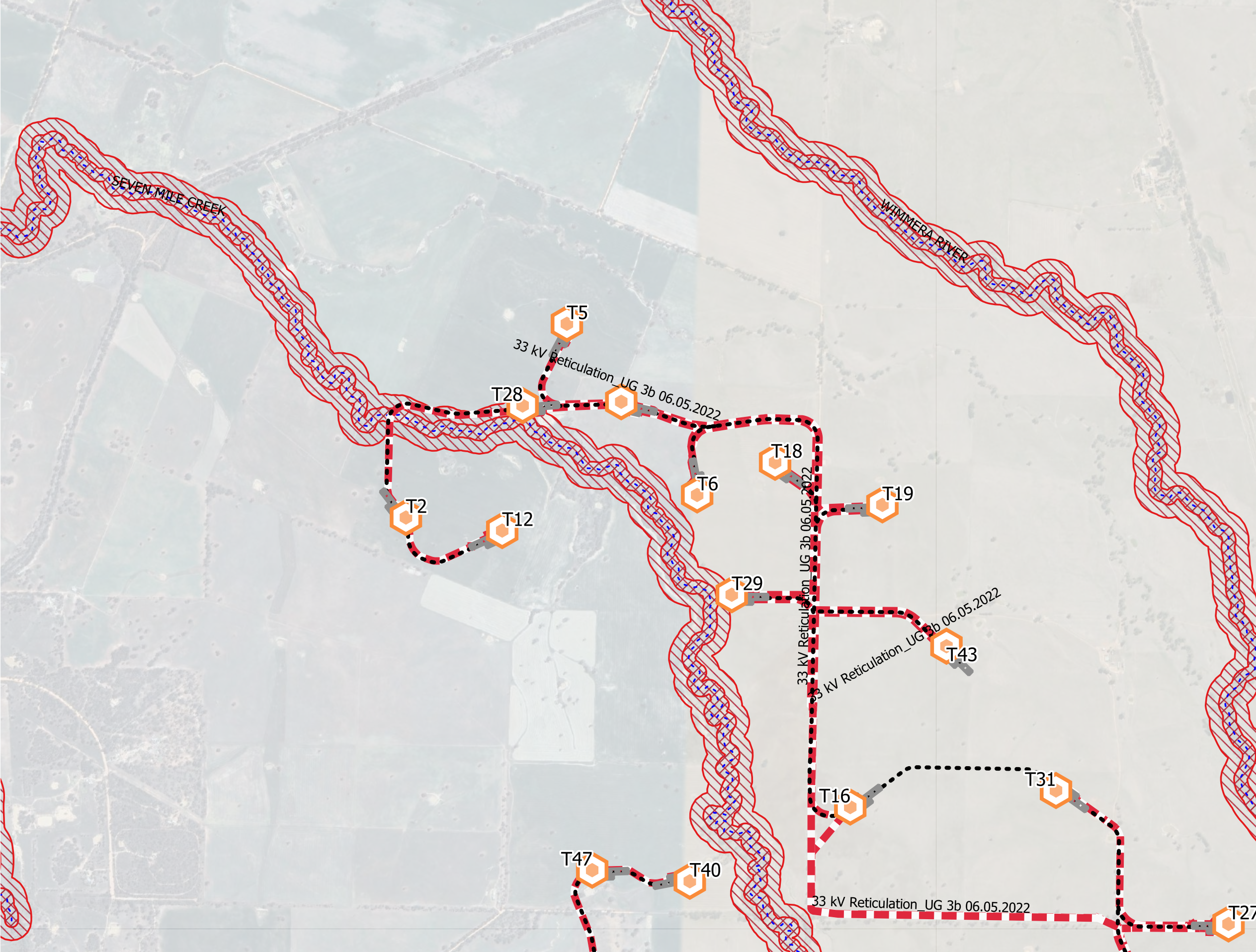
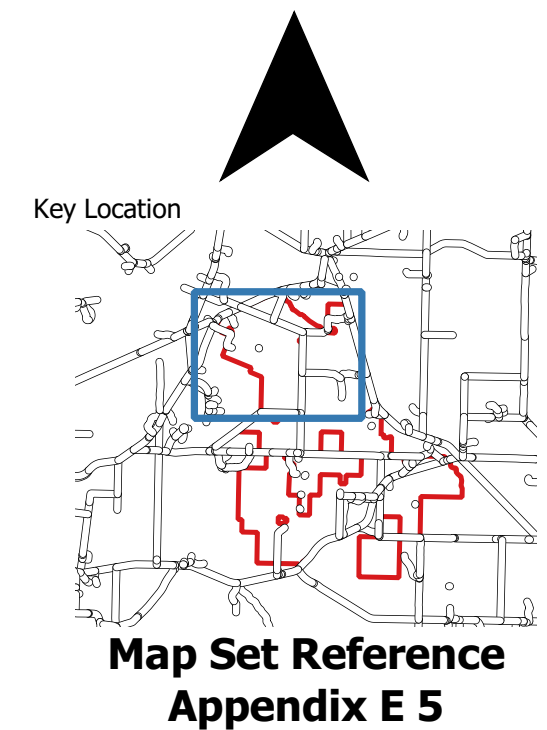


Source: data.vic.gov, Google Satellite 2025

WATTA WELLA RENEWABLE ENERGY PROJECT-
HYDROLOGY AND FLOOD ASSESSMENT
10% AEP Flood extent and assessment buffer








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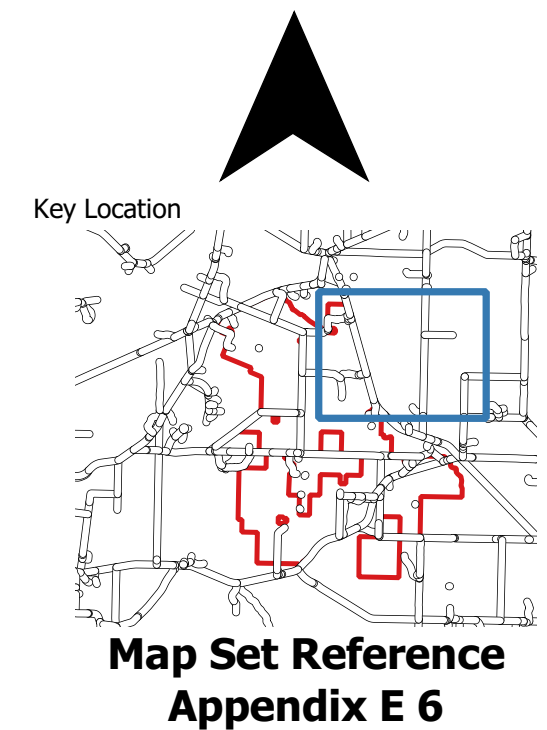
-  Wind Turbines
-  Wind Turbine Base
-  Access Tracks
-  Electrical Reticulation



Source: data.vic.gov, Google Satellite 2026







WATTA WELLA RENEWABLE ENERGY PROJECT- HYDROLOGY AND FLOOD ASSESSMENT Waterway Buffers (30m and 100m)

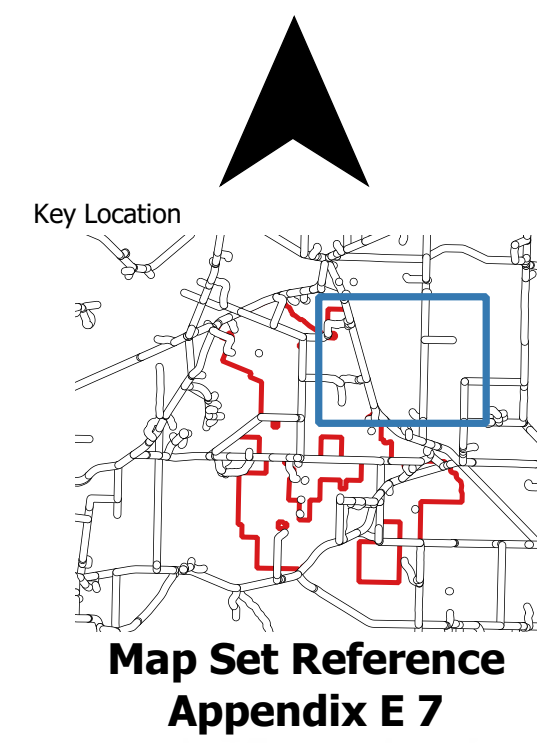
-  Wind Turbines
-  Wind Turbine Base
-  Access Tracks
-  Electrical Reticulation
-  1pc Flood Extent
- PLAN_OVERLAY
-  FO
-  LSIO



Source: data.vic.gov, Google Satellite 2027







WATTA WELLA RENEWABLE ENERGY PROJECT- HYDROLOGY AND FLOOD ASSESSMENT 1% AEP Flood extent and Planning overlay

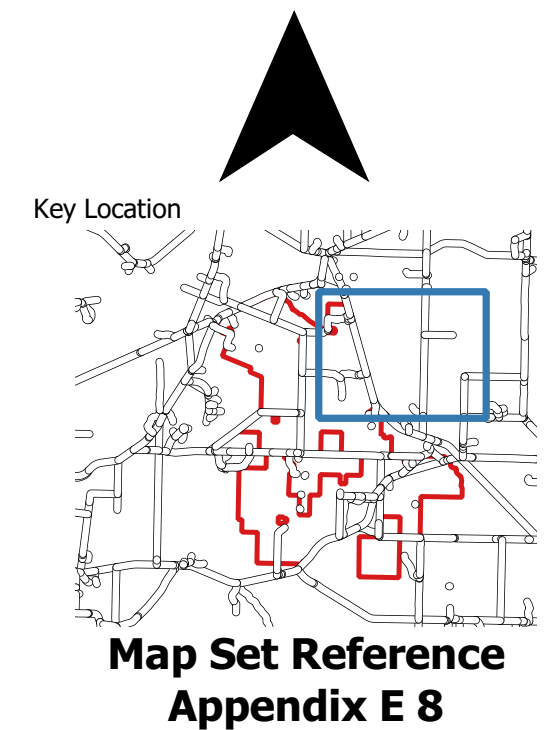
-  Wind Turbines
-  Wind Turbine Base
-  Access Tracks
-  Electrical Reticulation
-  1pc Flood Extent
-  1pc_Flood_30m buffer



Source: data.vic.gov, Google Satellite 2028

WATTA WELLA RENEWABLE ENERGY PROJECT-
HYDROLOGY AND FLOOD ASSESSMENT
1% AEP Flood extent and assessment buffer







-  Wind Turbines
-  Wind Turbine Base
-  Access Tracks
-  Electrical Reticulation
-  05e_Flood_Extent_5m_60min
-  05e_Flood_30m buffer

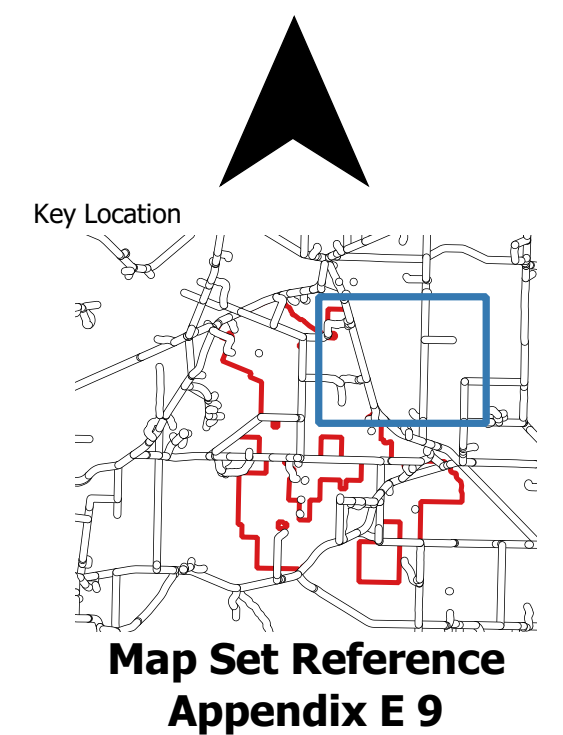


Source: data.vic.gov, Google Satellite 2029

WATTA WELLA RENEWABLE ENERGY PROJECT-
HYDROLOGY AND FLOOD ASSESSMENT
39.35% AEP Flood extent and assessment buffer





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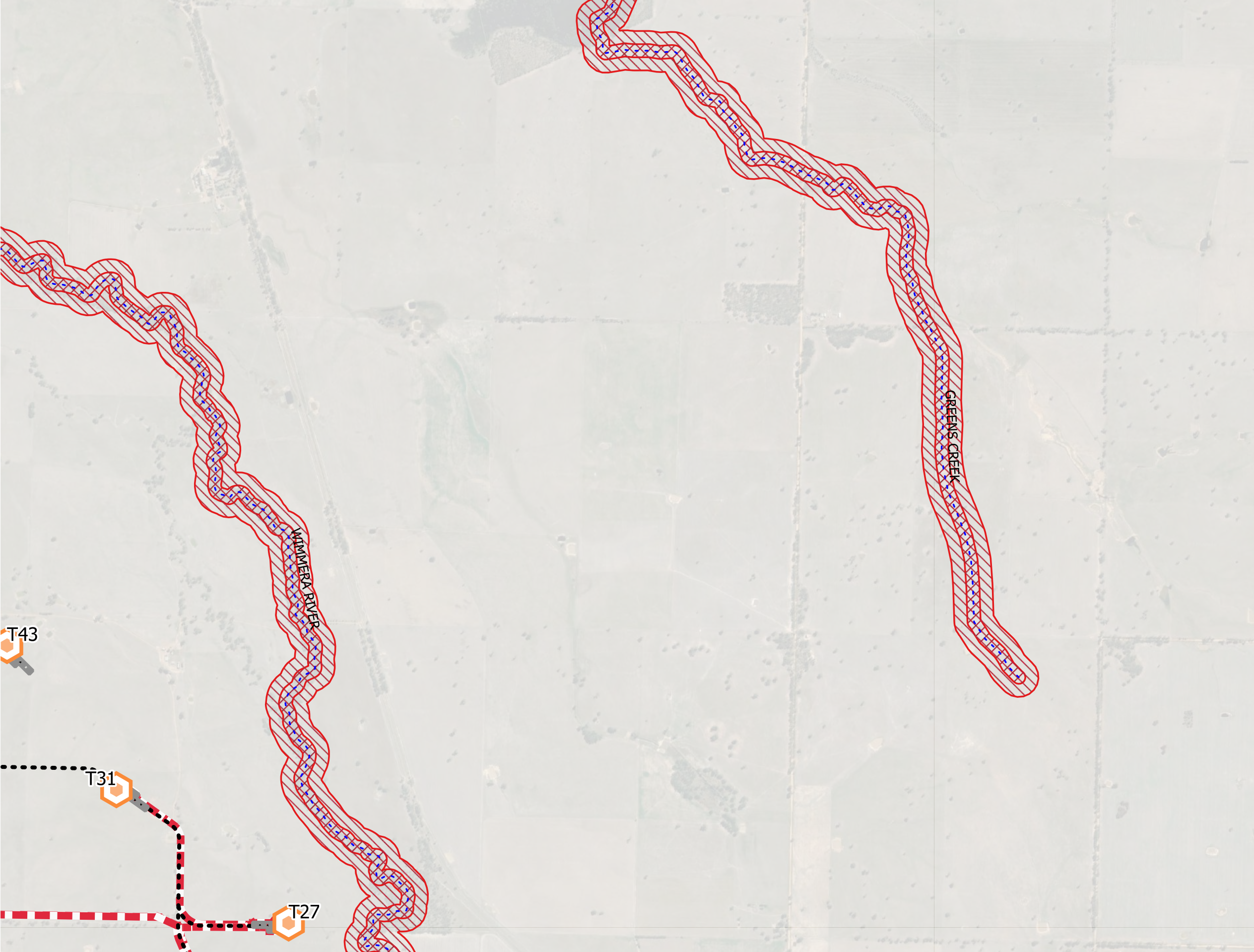
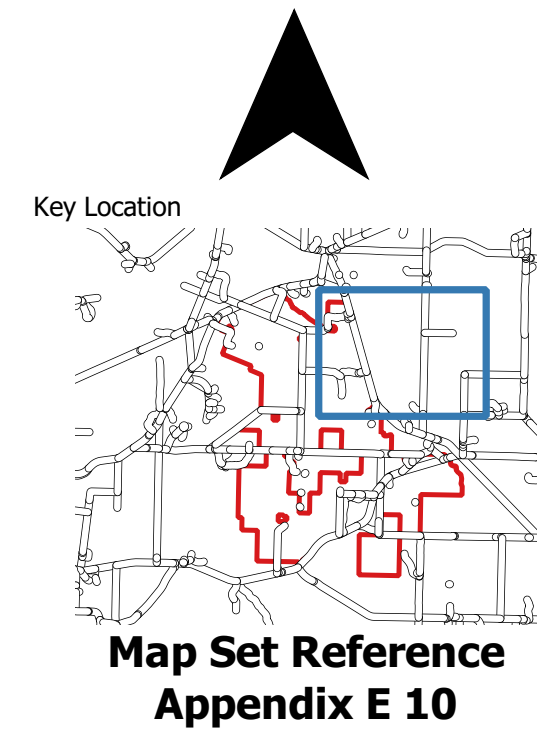
-  Wind Turbines
-  Wind Turbine Base
-  Access Tracks
-  Electrical Reticulation
-  10pc_Flood_Extent_5m_60min
-  10pc_Flood_30m buffer



Source: data.vic.gov, Google Satellite 2030

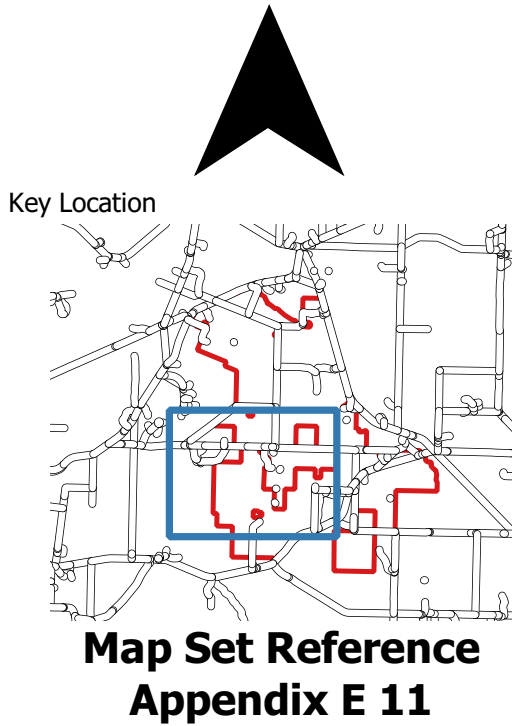
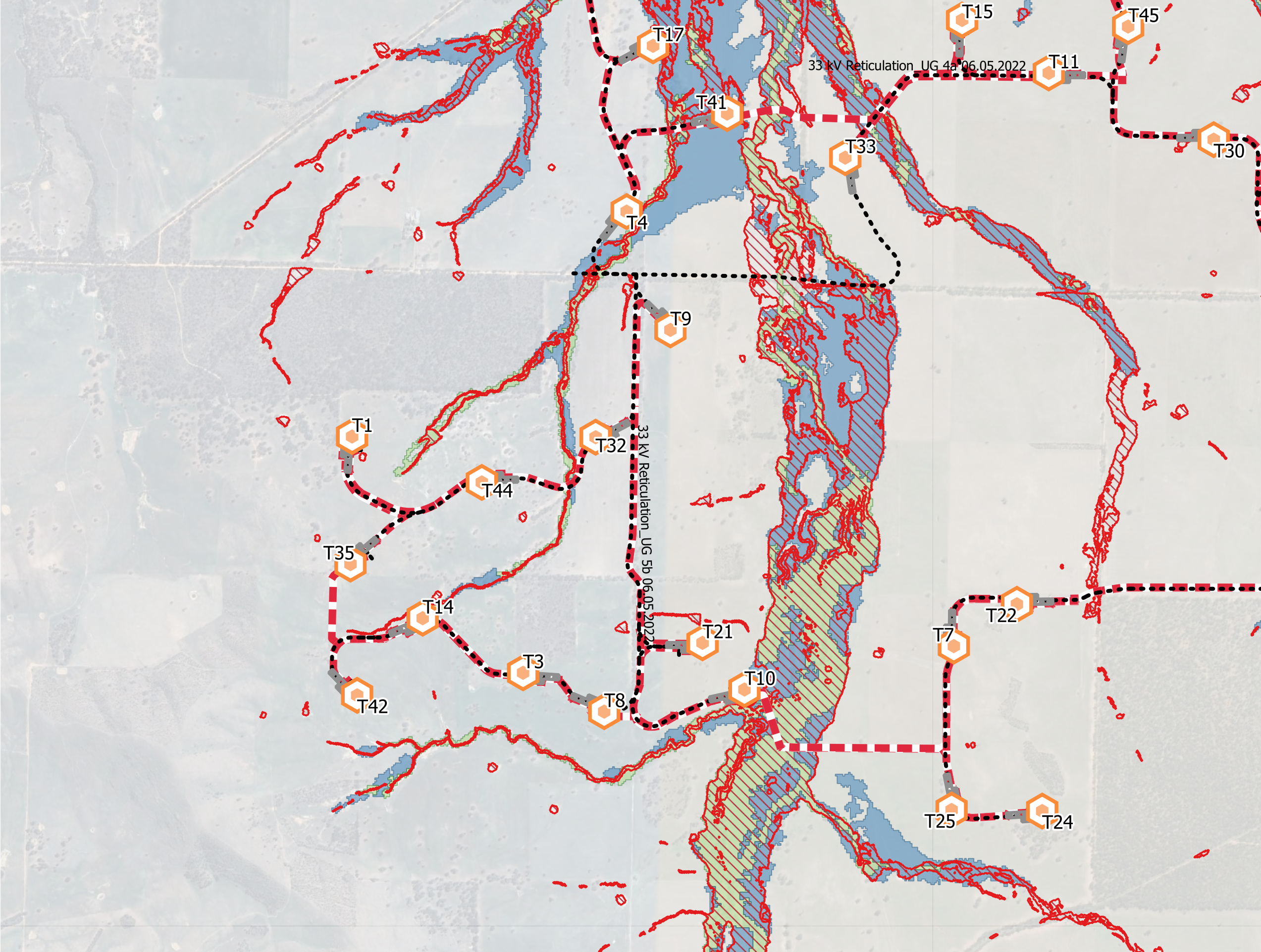
**WATTA WELLA RENEWABLE ENERGY PROJECT-
HYDROLOGY AND FLOOD ASSESSMENT**
10% AEP Flood extent and assessment buffer

-  Wind Turbines
-  Wind Turbine Base
-  Access Tracks
-  Electrical Reticulation



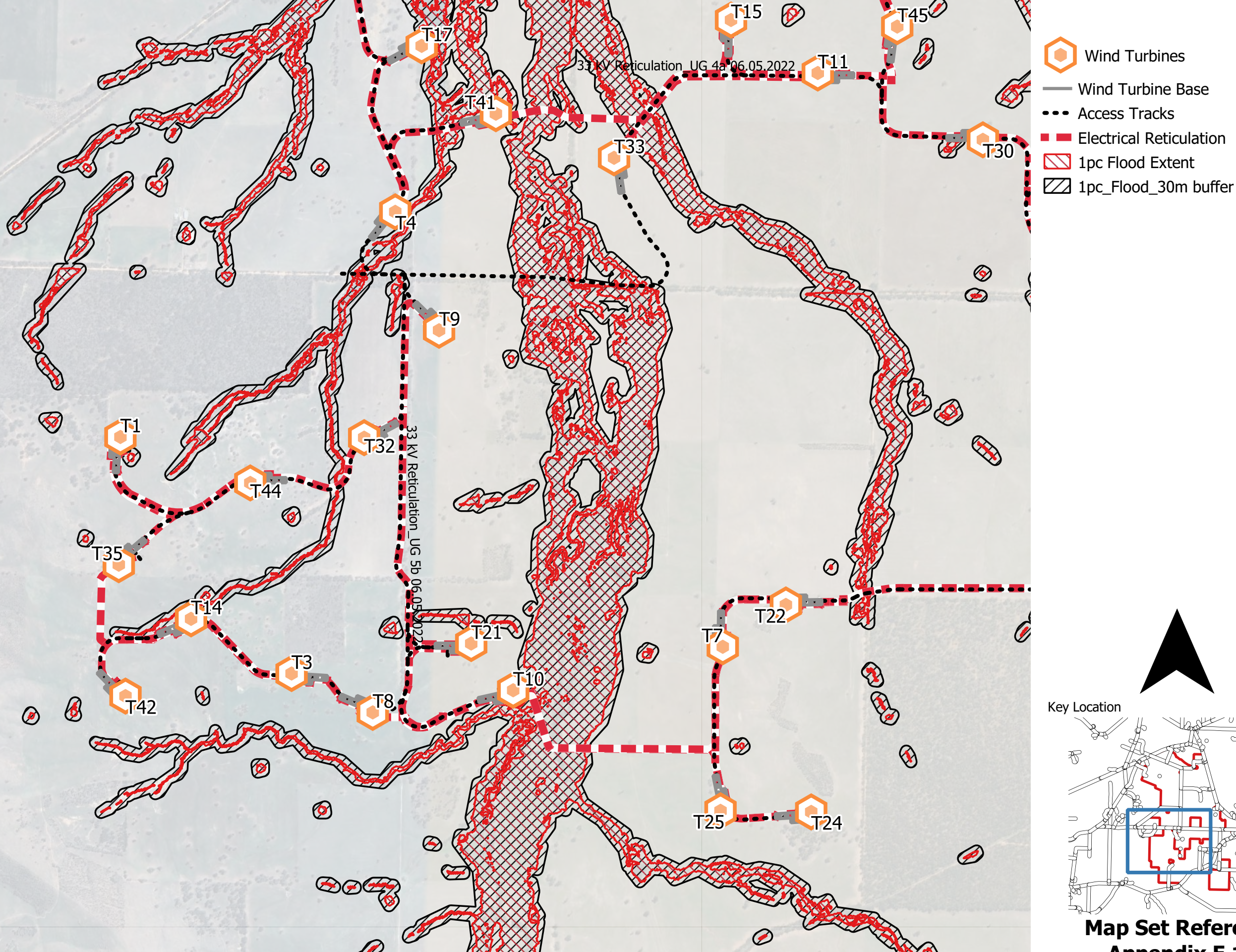
Source: data.vic.gov, Google Satellite 2031

WATTA WELLA RENEWABLE ENERGY PROJECT- HYDROLOGY AND FLOOD ASSESSMENT Waterway Buffers (30m and 100m)



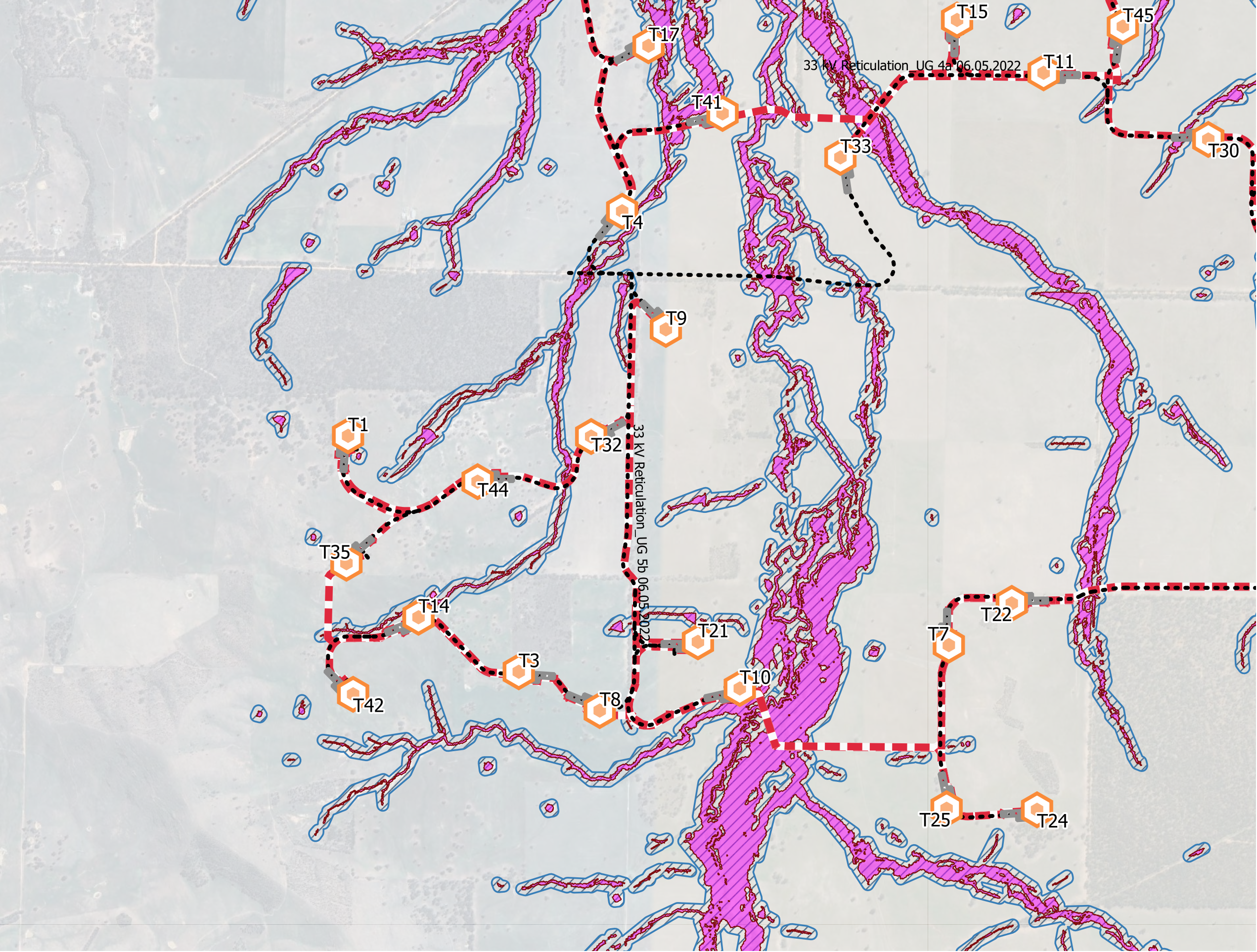
Source: data.vic.gov, Google Satellite 2032

WATTA WELLA RENEWABLE ENERGY PROJECT-
HYDROLOGY AND FLOOD ASSESSMENT
1% AEP Flood extent and Planning overlay

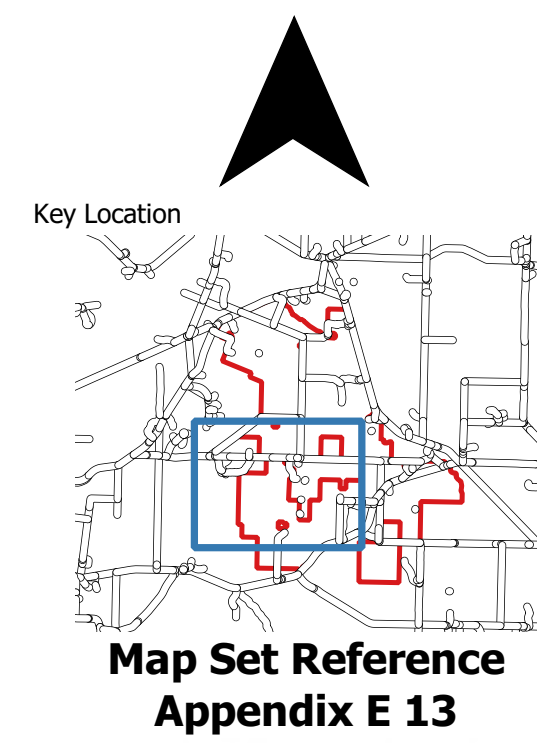


Source: data.vic.gov, Google Satellite 2033

WATTA WELLA RENEWABLE ENERGY PROJECT-
 HYDROLOGY AND FLOOD ASSESSMENT
 1% AEP Flood extent and assessment buffer

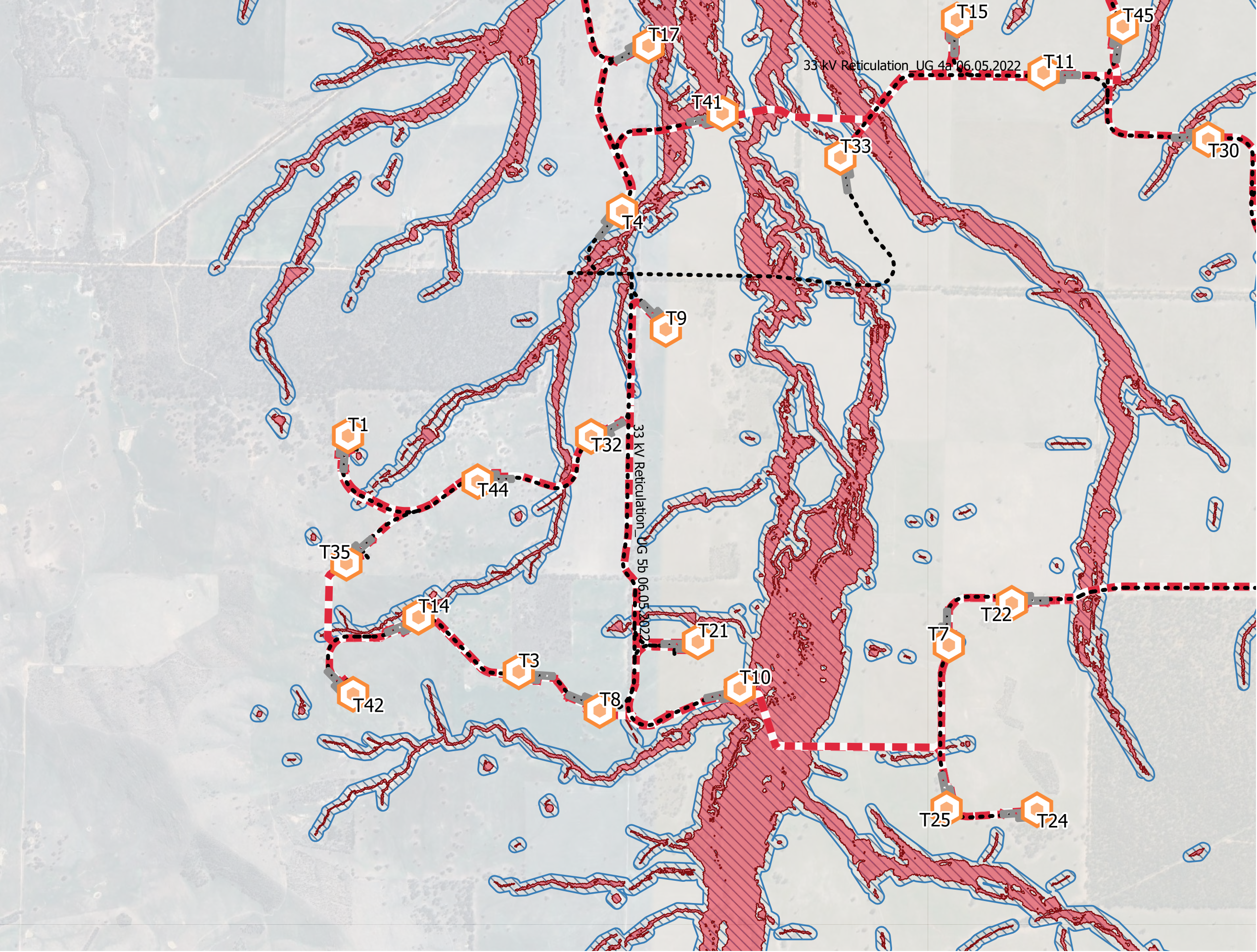


- Wind Turbines
- Wind Turbine Base
- Access Tracks
- Electrical Reticulation
- 05e_Flood_Extent_5m_60min
- 05e_Flood_30m buffer

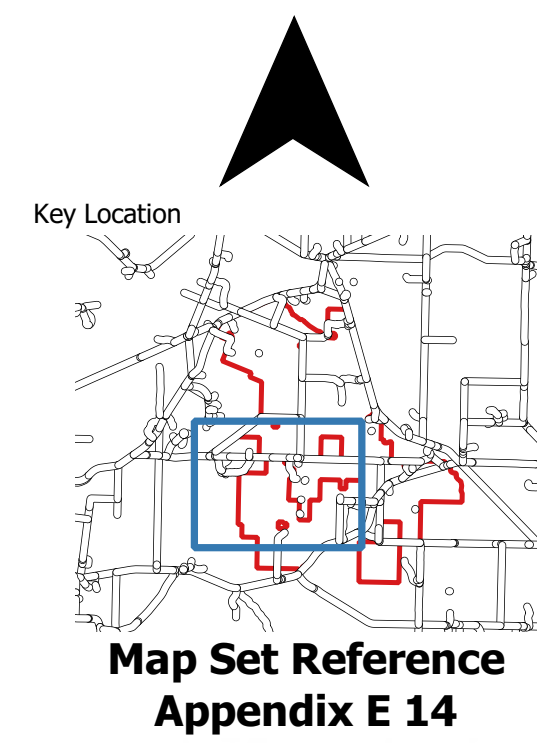


Source: data.vic.gov, Google Satellite 2034

WATTA WELLA RENEWABLE ENERGY PROJECT-
HYDROLOGY AND FLOOD ASSESSMENT
39.35% AEP Flood extent and assessment buffer







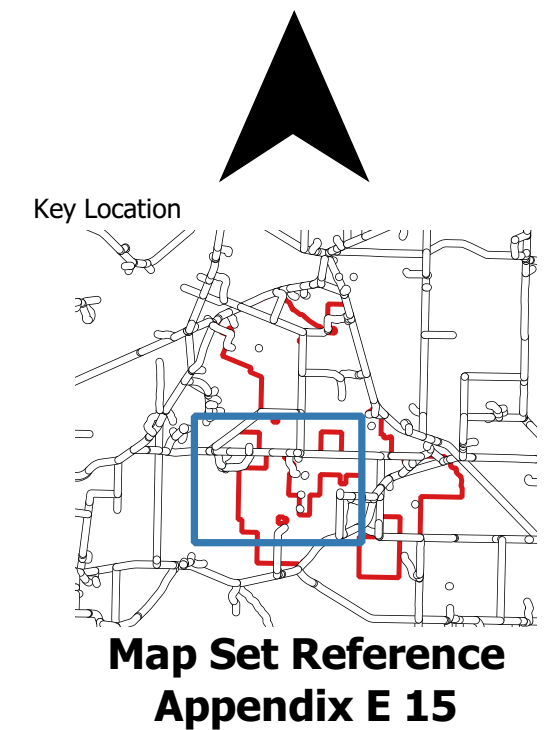
- Wind Turbines
- Wind Turbine Base
- Access Tracks
- Electrical Reticulation
- 10pc_Flood_Extent_5m_60min
- 10pc_Flood_30m buffer



Source: data.vic.gov, Google Satellite 2035

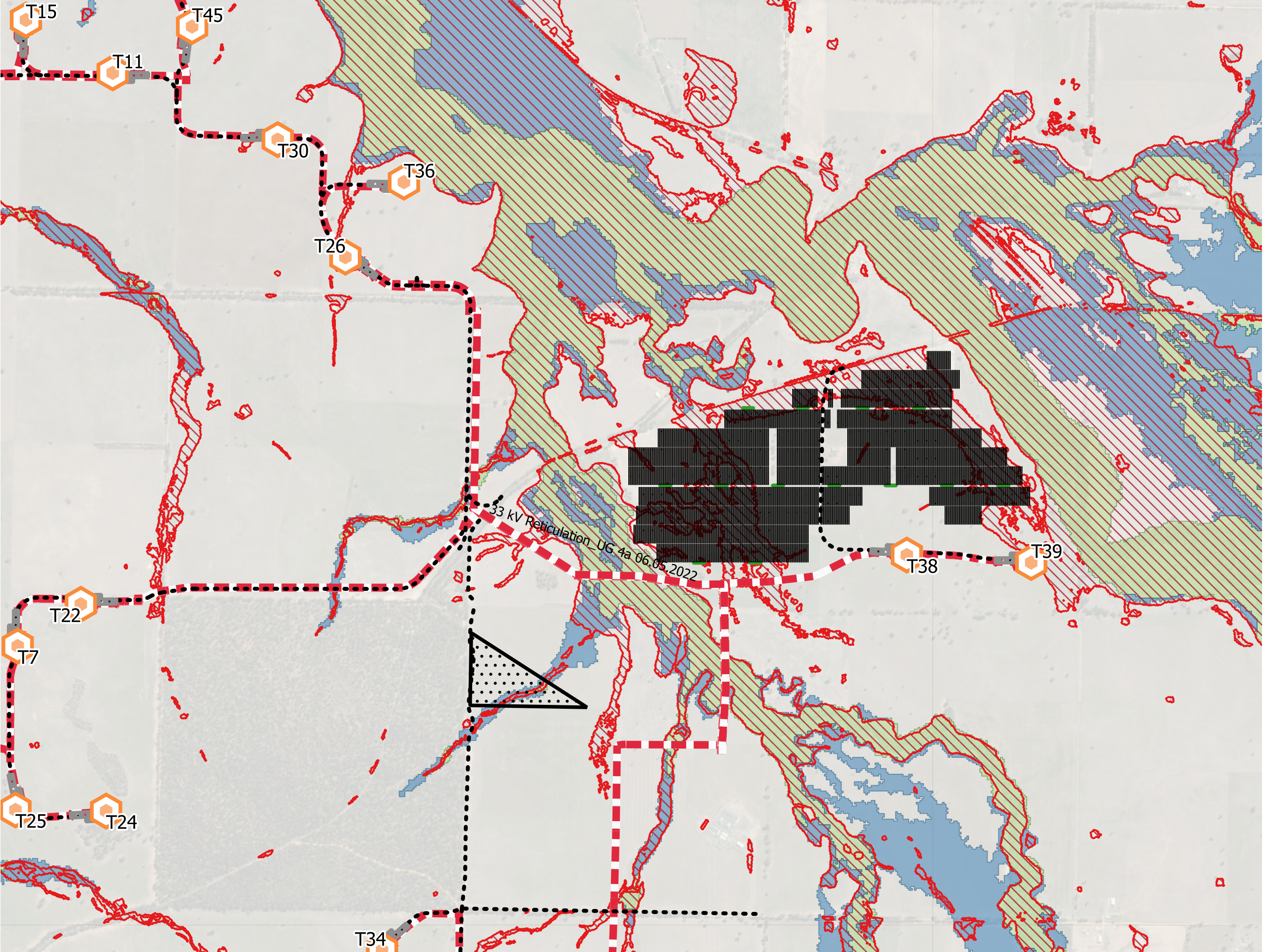
WATTA WELLA RENEWABLE ENERGY PROJECT-
HYDROLOGY AND FLOOD ASSESSMENT
10% AEP Flood extent and assessment buffer












-  Wind Turbines
-  Wind Turbine Base
-  Access Tracks
-  Electrical Reticulation

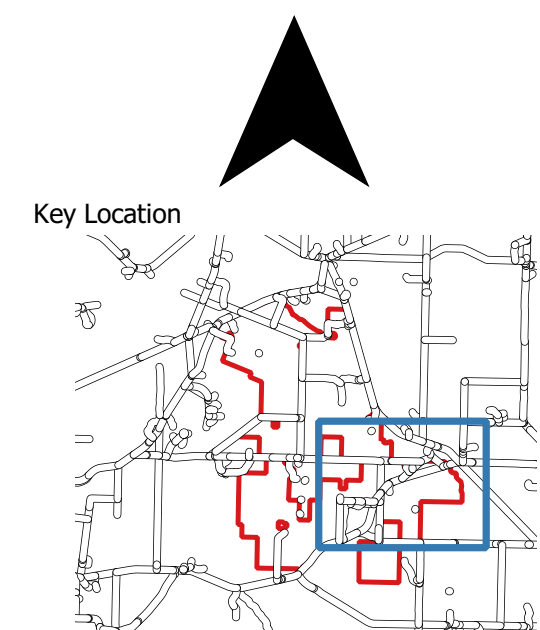


Source: data.vic.gov, Google Satellite 2036

WATTA WELLA RENEWABLE ENERGY PROJECT- HYDROLOGY AND FLOOD ASSESSMENT Waterway Buffers (30m and 100m)



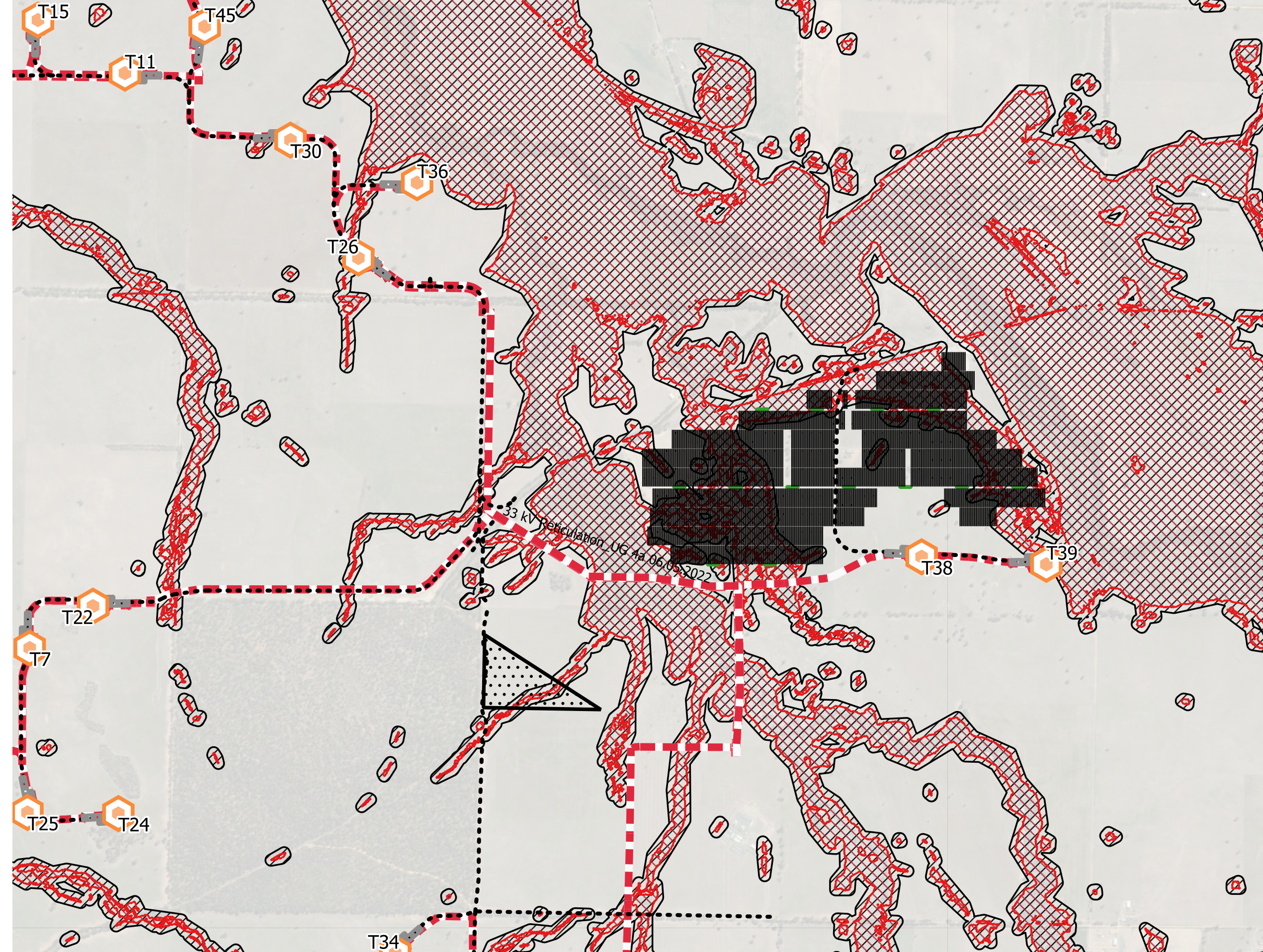
-  Wind Turbines
-  Wind Turbine Base
-  Solar Farm- Arrays
-  Solar Farm Sheds
-  Inverter Base
-  Access Tracks
-  Electrical Reticulation
-  Battery Storage
-  1pc Flood Extent
- PLAN_OVERLAY
-  FO
-  LSIO













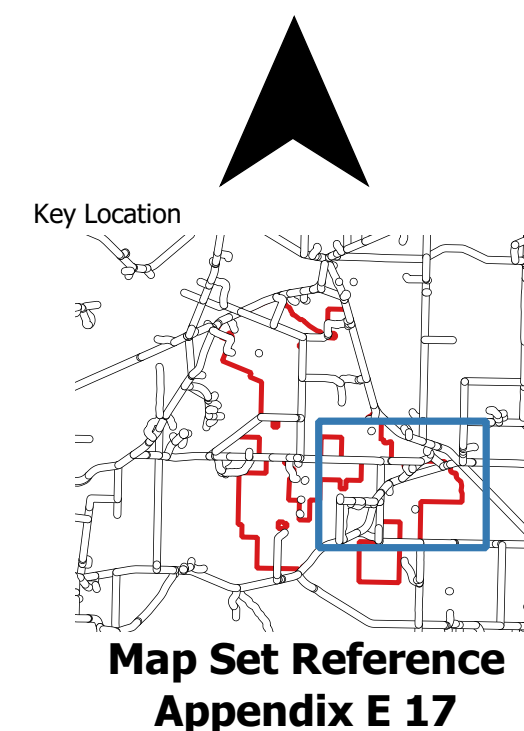
**Map Set Reference
Appendix E 16**

Source: data.vic.gov, Google Satellite 2037

**WATTA WELLA RENEWABLE ENERGY PROJECT-
HYDROLOGY AND FLOOD ASSESSMENT
1% AEP Flood extent and Planning overlay**

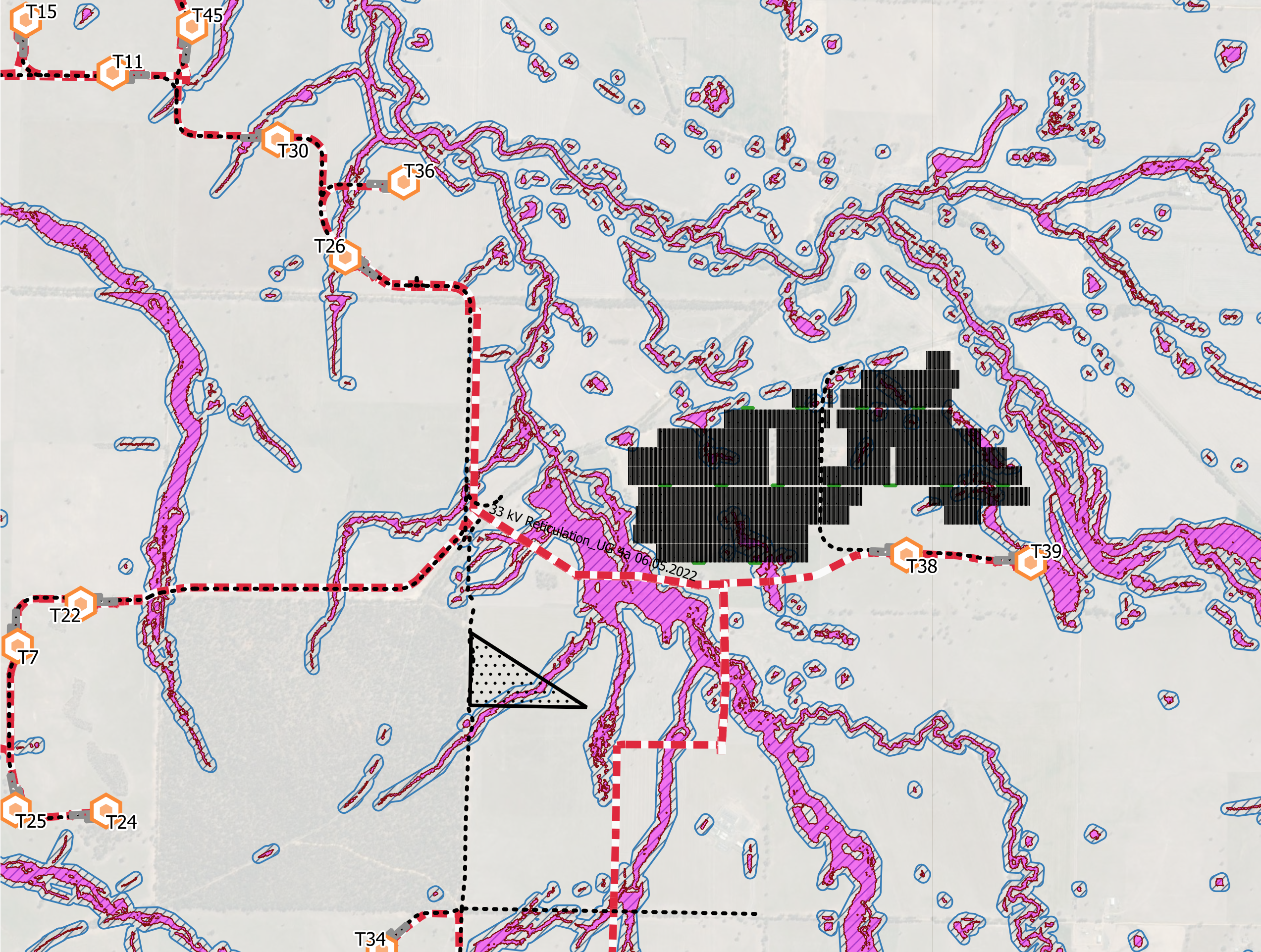


-  Wind Turbines
-  Wind Turbine Base
-  Solar Farm- Arrays
-  Solar Farm Sheds
-  Inverter Base
-  Access Tracks
-  Electrical Reticulation
-  Battery Storage
-  1pc Flood Extent
-  1pc_Flood_30m buffer

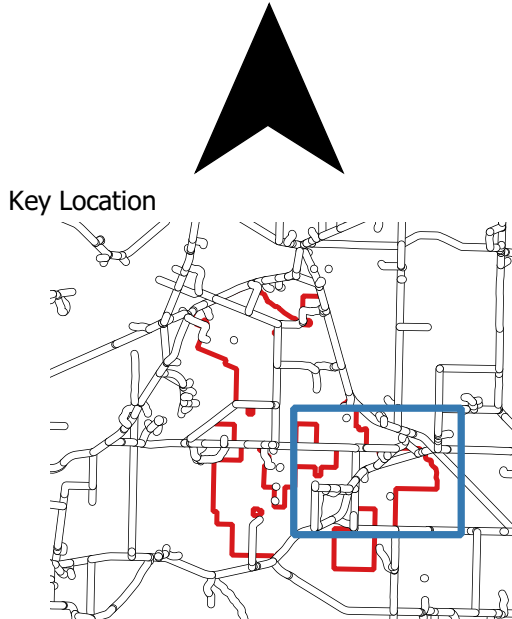


Source: data.vic.gov, Google Satellite 2038

WATTA WELLA RENEWABLE ENERGY PROJECT-
HYDROLOGY AND FLOOD ASSESSMENT
1% AEP Flood extent and assessment buffer



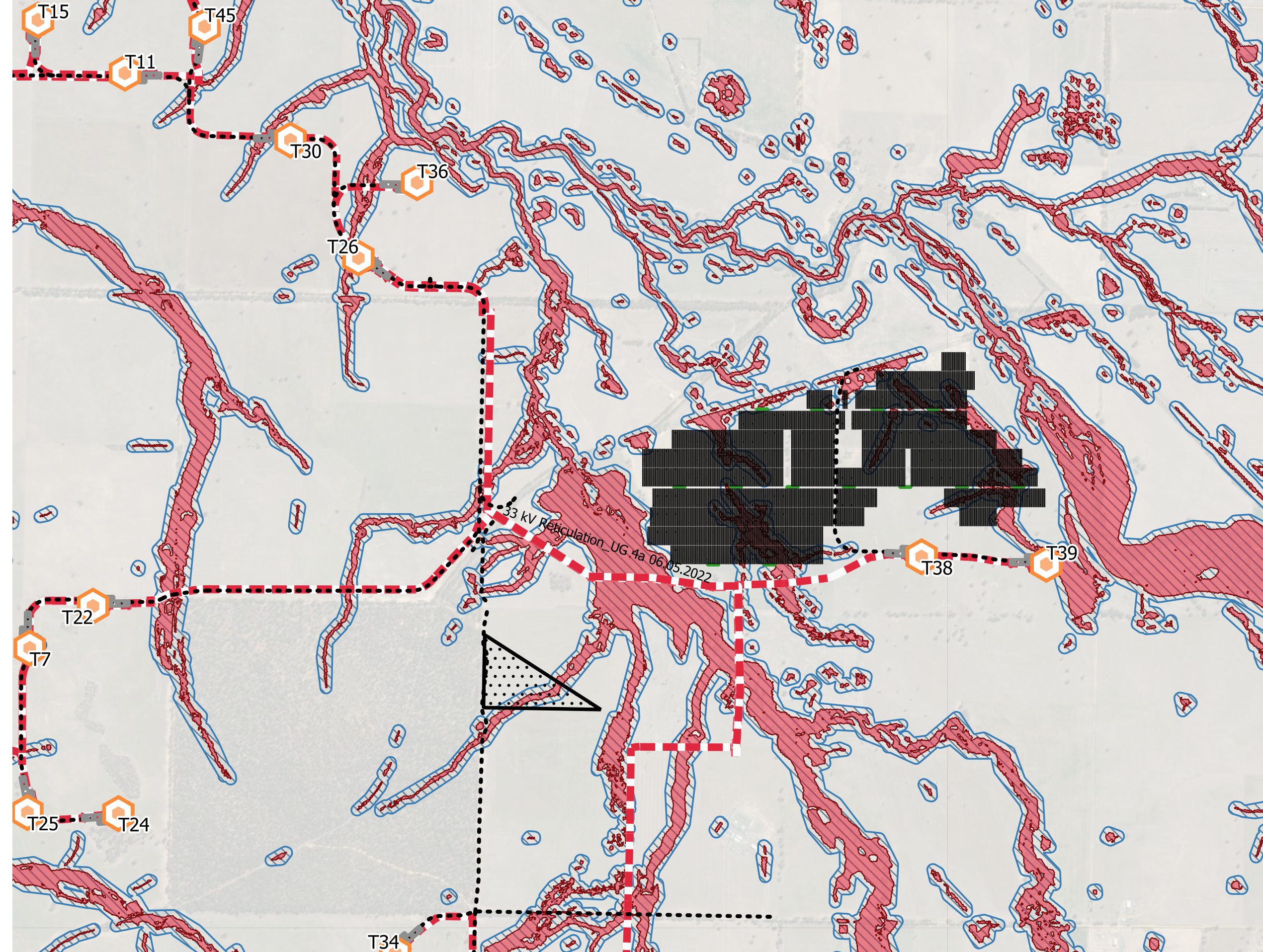
- Wind Turbines
- Wind Turbine Base
- Solar Farm- Arrays
- Solar Farm Sheds
- Inverter Base
- Access Tracks
- Electrical Reticulation
- Battery Storage
- 05e_Flood_Extent_5m_60min
- 05e_Flood_30m buffer



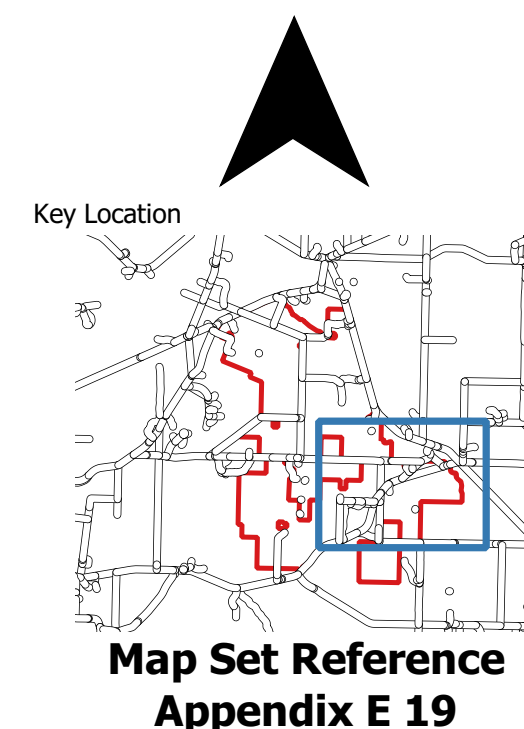
Map Set Reference
Appendix E 18

Source: data.vic.gov, Google Satellite 2039

WATTA WELLA RENEWABLE ENERGY PROJECT-
HYDROLOGY AND FLOOD ASSESSMENT
39.35% AEP Flood extent and assessment buffer











- Wind Turbines
- Wind Turbine Base
- Solar Farm- Arrays
- Solar Farm Sheds
- Inverter Base
- Access Tracks
- Electrical Reticulation
- Battery Storage
- 10pc_Flood_Extent_5m_60min
- 10pc_Flood_30m buffer

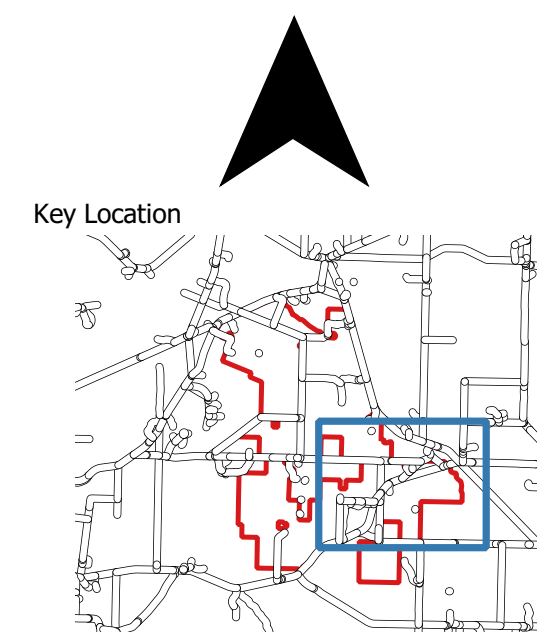


Source: data.vic.gov, Google Satellite 2040

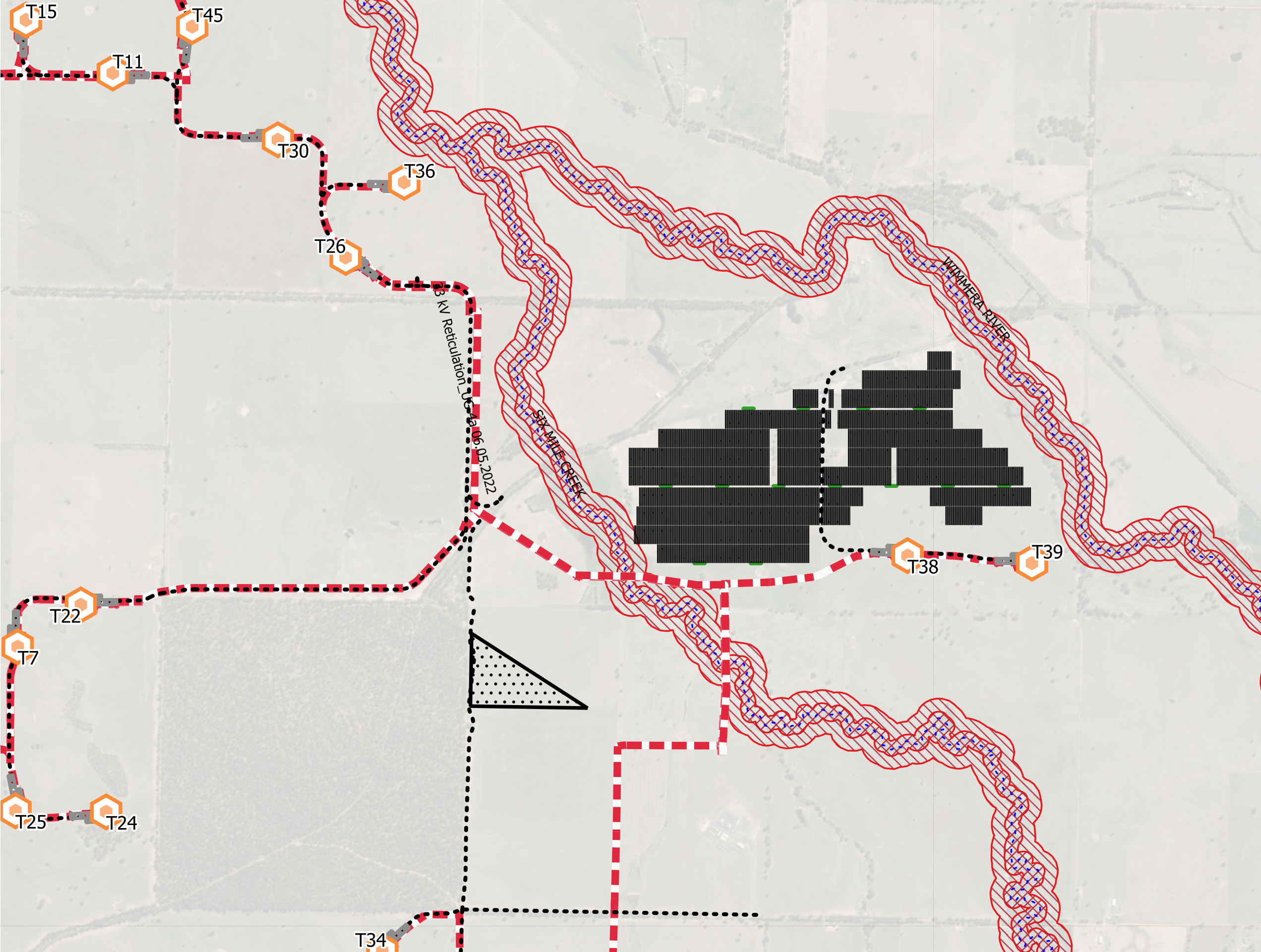
**WATTA WELLA RENEWABLE ENERGY PROJECT-
HYDROLOGY AND FLOOD ASSESSMENT**
10% AEP Flood extent and assessment buffer

Appendix E Page 20

-  Wind Turbines
-  Wind Turbine Base
-  Solar Farm- Arrays
-  Solar Farm Sheds
-  Inverter Base
-  Access Tracks
-  Electrical Reticulation
-  Battery Storage









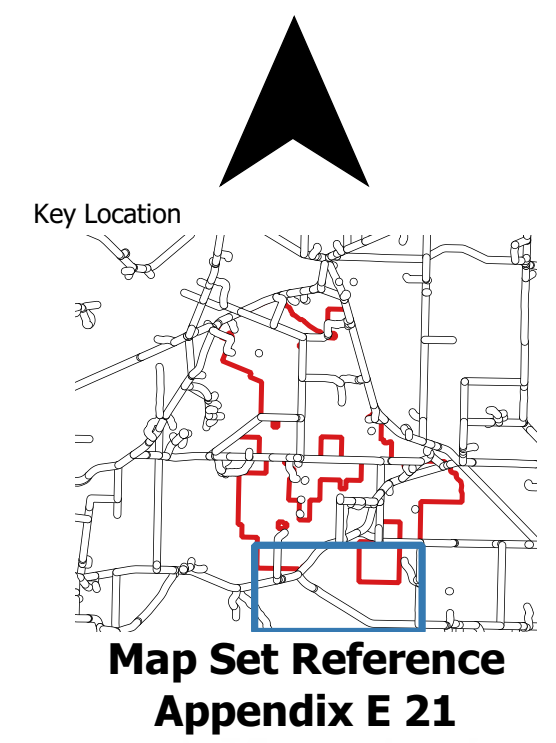
Map Set Reference
Appendix E 20



Source: data.vic.gov, Google Satellite 2041

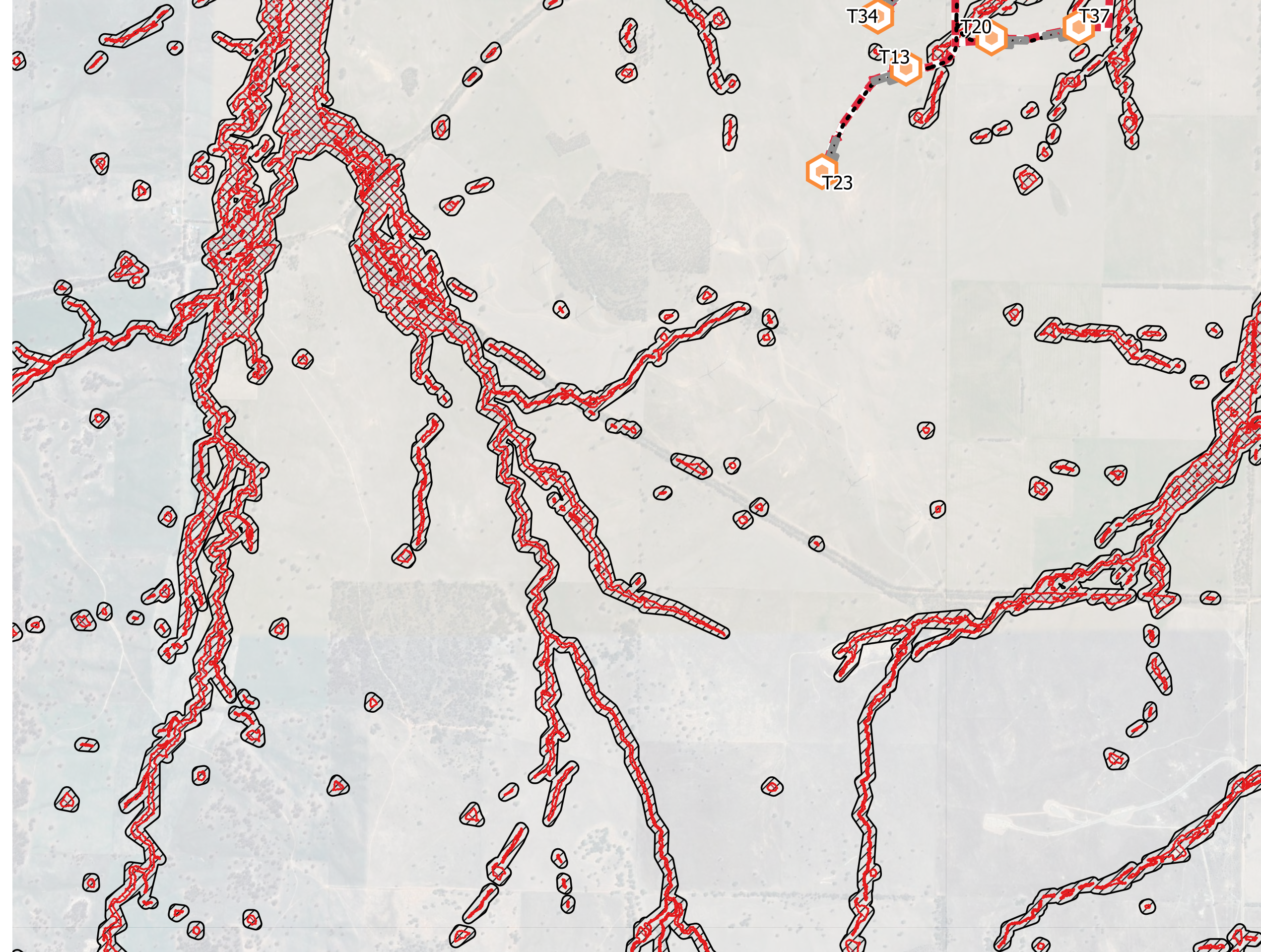
WATTA WELLA RENEWABLE ENERGY PROJECT-
HYDROLOGY AND FLOOD ASSESSMENT
Waterway Buffers (30m and 100m)







-  Wind Turbines
-  Wind Turbine Base
-  Access Tracks
-  Electrical Reticulation
-  1pc Flood Extent
- PLAN_OVERLAY
-  FO
-  LSIO

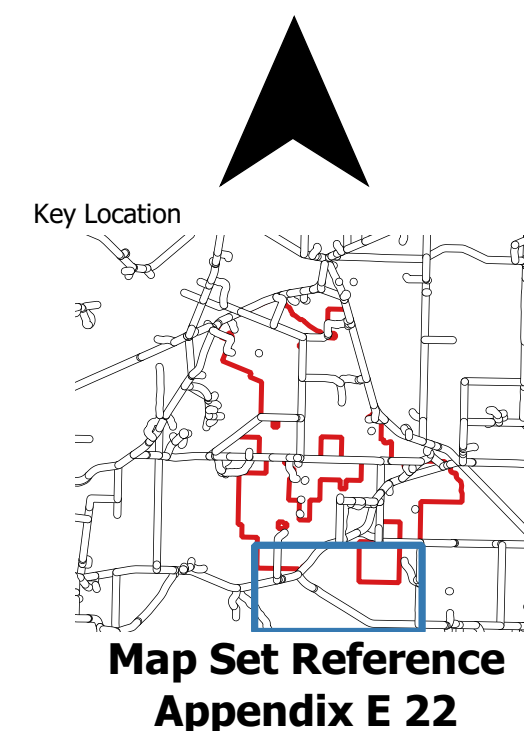


Source: data.vic.gov, Google Satellite 2042

WATTA WELLA RENEWABLE ENERGY PROJECT-
HYDROLOGY AND FLOOD ASSESSMENT
1% AEP Flood extent and Planning overlay









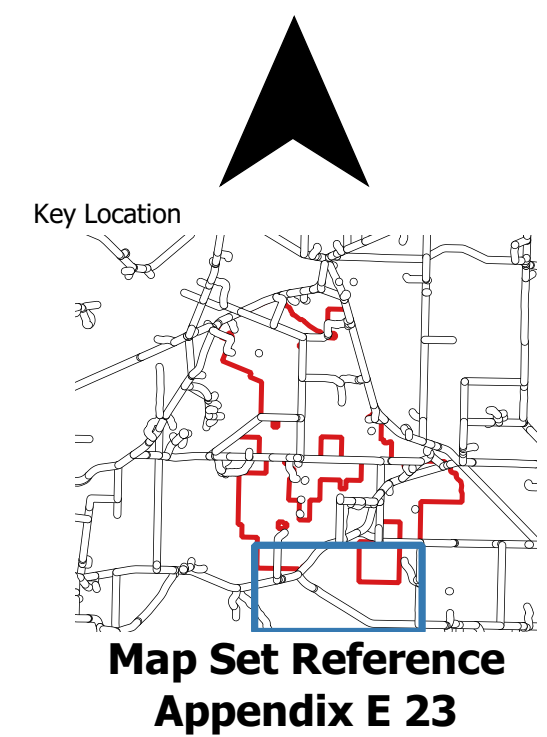
-  Wind Turbines
-  Wind Turbine Base
-  Access Tracks
-  Electrical Reticulation
-  1pc Flood Extent
-  1pc_Flood_30m buffer



Source: data.vic.gov, Google Satellite 2043







WATTA WELLA RENEWABLE ENERGY PROJECT-
HYDROLOGY AND FLOOD ASSESSMENT
1% AEP Flood extent and assessment buffer

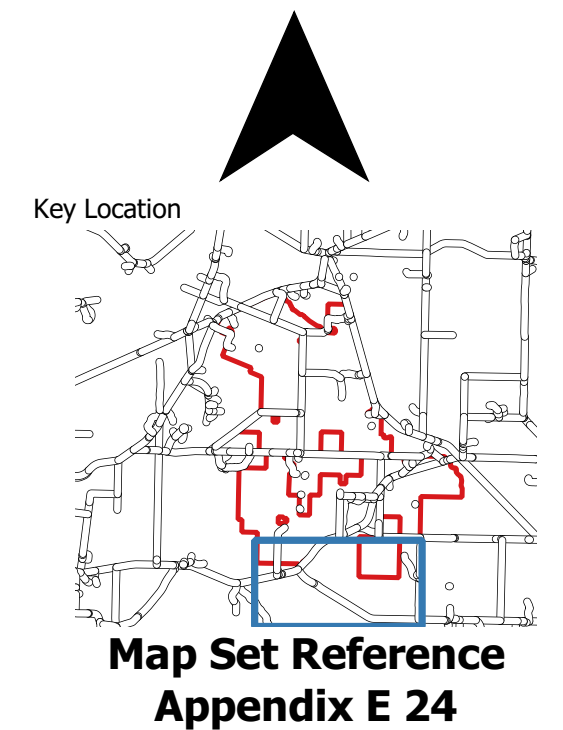
-  Wind Turbines
-  Wind Turbine Base
-  Access Tracks
-  Electrical Reticulation
-  05e_Flood_Extent_5m_60min
-  05e_Flood_30m buffer



Source: data.vic.gov, Google Satellite 2044





WATTA WELLA RENEWABLE ENERGY PROJECT-
HYDROLOGY AND FLOOD ASSESSMENT
39.35% AEP Flood extent and assessment buffer

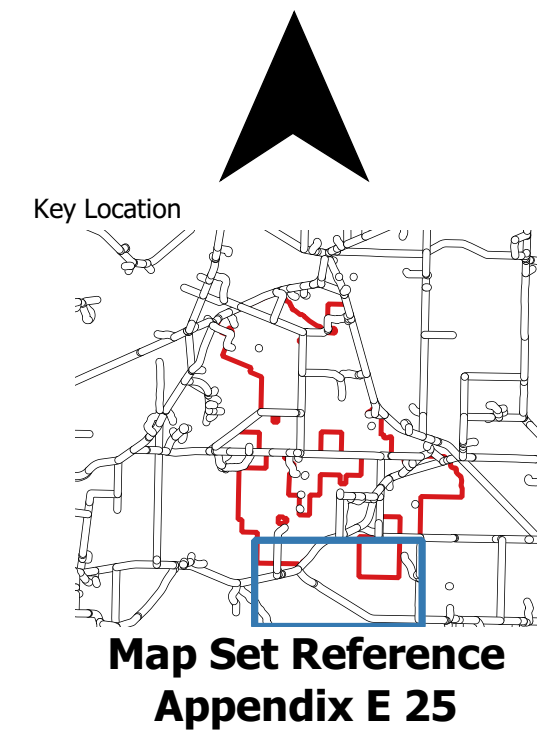
-  Wind Turbines
-  Wind Turbine Base
-  Access Tracks
-  Electrical Reticulation
-  10pc_Flood_Extent_5m_60min
-  10pc_Flood_30m buffer



Source: data.vic.gov, Google Satellite 2045

WATTA WELLA RENEWABLE ENERGY PROJECT-
HYDROLOGY AND FLOOD ASSESSMENT
10% AEP Flood extent and assessment buffer

-  Wind Turbines
-  Wind Turbine Base
-  Access Tracks
-  Electrical Reticulation



Source: data.vic.gov, Google Satellite 2046

WATTA WELLA RENEWABLE ENERGY PROJECT- HYDROLOGY AND FLOOD ASSESSMENT Waterway Buffers (30m and 100m)