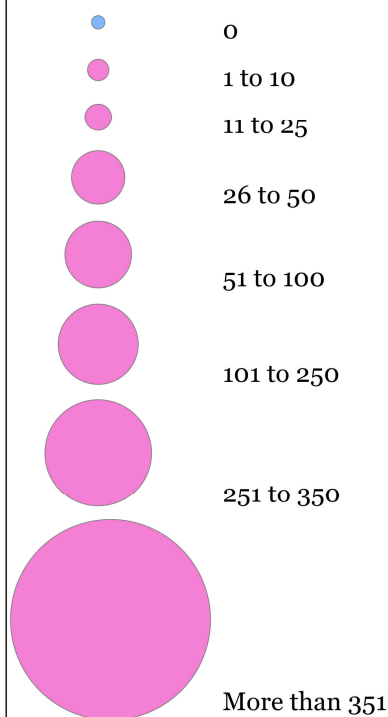




- + Survey 1 (29 Dec 2022 – 12 Jan 2023)
- + Survey 2 (30 Jan – 14 Febr 2023)
- + Survey 3 (07 – 23 March 2023)
- + Survey 4 (16 June - 24 Aug 2023)

Total Bat Passes



MAP SCALE

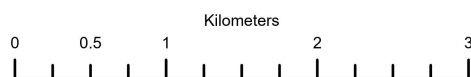
PRINT DATE

N

Scale: 1:50,000

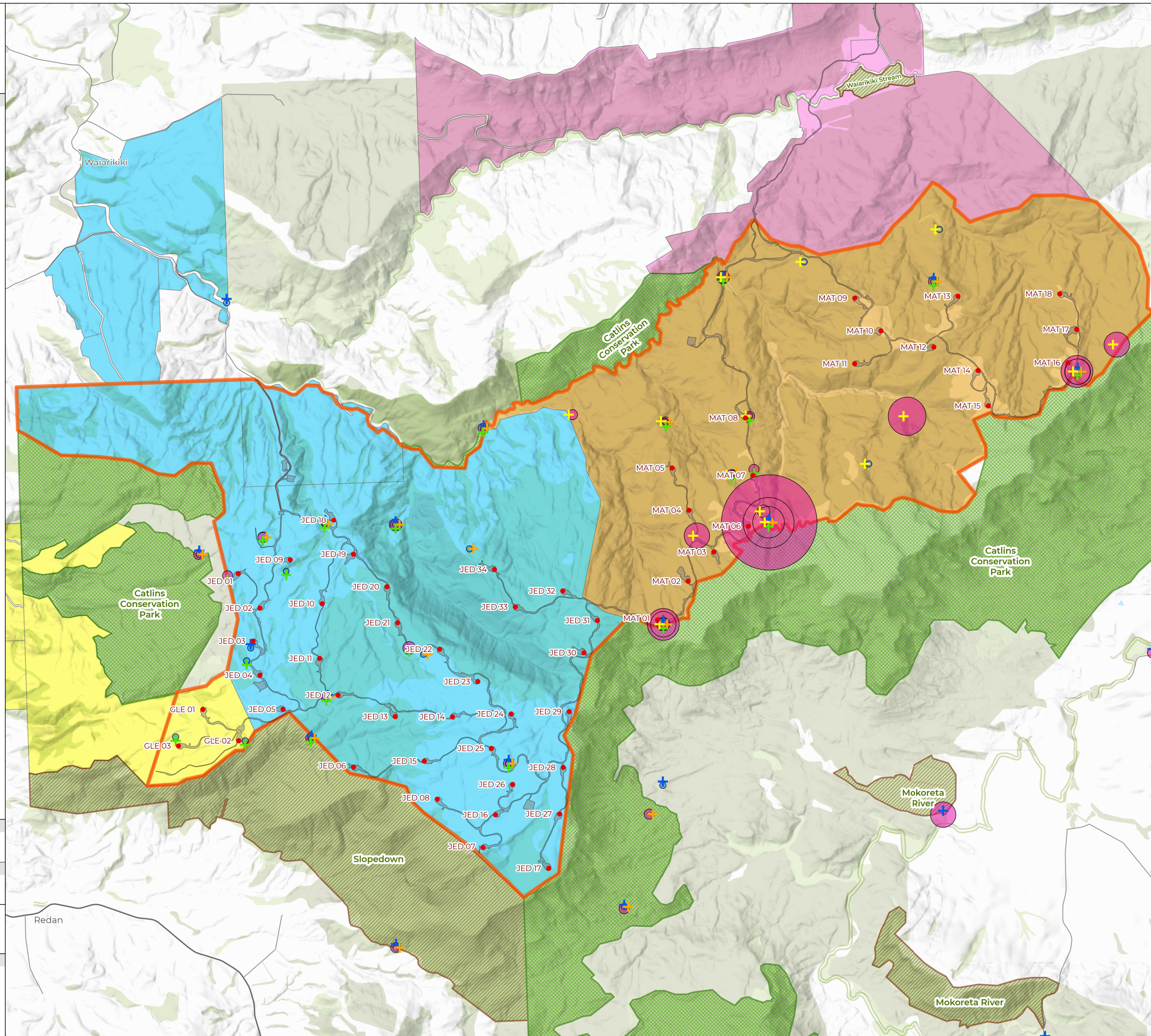
|         |  |
|---------|--|
| VERSION |  |
|---------|--|

1.0



| TITLE |
|-------|
|-------|

**FIGURE LONG-TAILED BATS - 7**  
GRADUATED SYMBOLS INDICATING  
HIGHEST ACTIVITY LEVELS (BAT PASSES)  
FOR SURVEYS 1 – 4



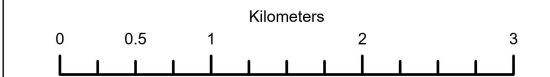




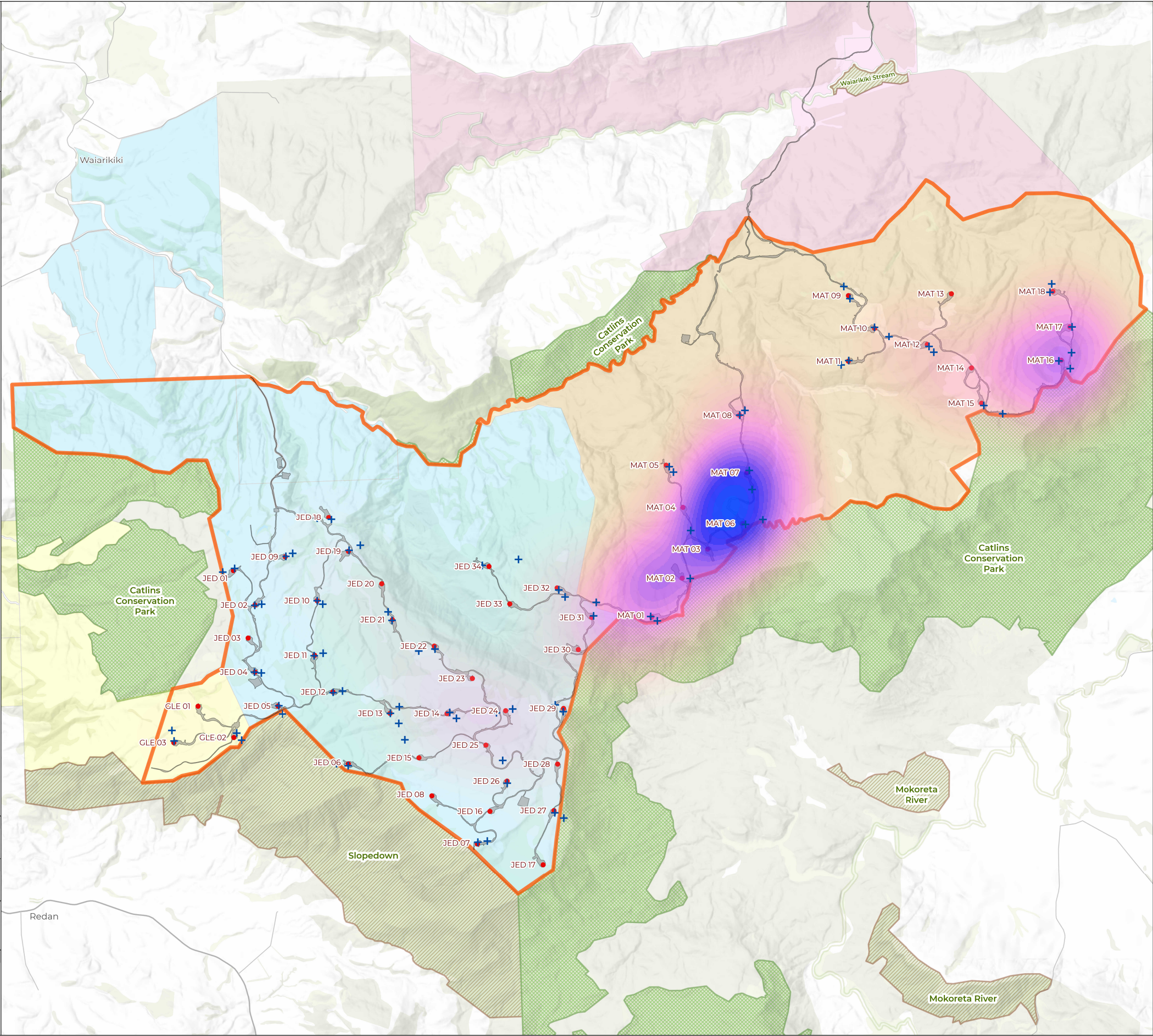
LEGEND

- Wind Turbines
- Civil Works Design
- ▭ Wind Farm Site
- Wind Farm Properties
  - Glencoe Station
  - Matariki (Venlaw) Forests
  - Jedburgh Station
- Transmission Line Properties
  - Port Blakely
  - Conservation Park (s.19)
  - Stewardship Area (s.25)
- + ABM Locations (Surveys 5 to 8)
- Bat Activity Heat Map (% Nights Active)
  - Sparse
  - More Active

| MAP SCALE                                                    | PRINT DATE |
|--------------------------------------------------------------|------------|
| <div><div></div><div>N</div><div>Scale: 1:50,000</div></div> | 24/06/2025 |
|                                                              | VERSION    |
|                                                              | 1.0        |



**FIGURE LONG-TAILED BATS - 8**  
HEAT MAP SHOWING BAT ACTIVITY AS  
PERCENTAGE OF NIGHTS BATS ARE ACTIVE  
ACROSS THE SURVEYS 5 – 8







LEGEND

- Wind Turbines
- Civil Works Design
- ▭ Wind Farm Site
- Wind Farm Properties
  - Glencoe Station
  - Matariki (Venlaw) Forests
  - Jedburgh Station
- Transmission Line Properties
  - Port Blakely
- DoC Conservation Areas
  - Conservation Park (s.19)
  - Stewardship Area (s.25)

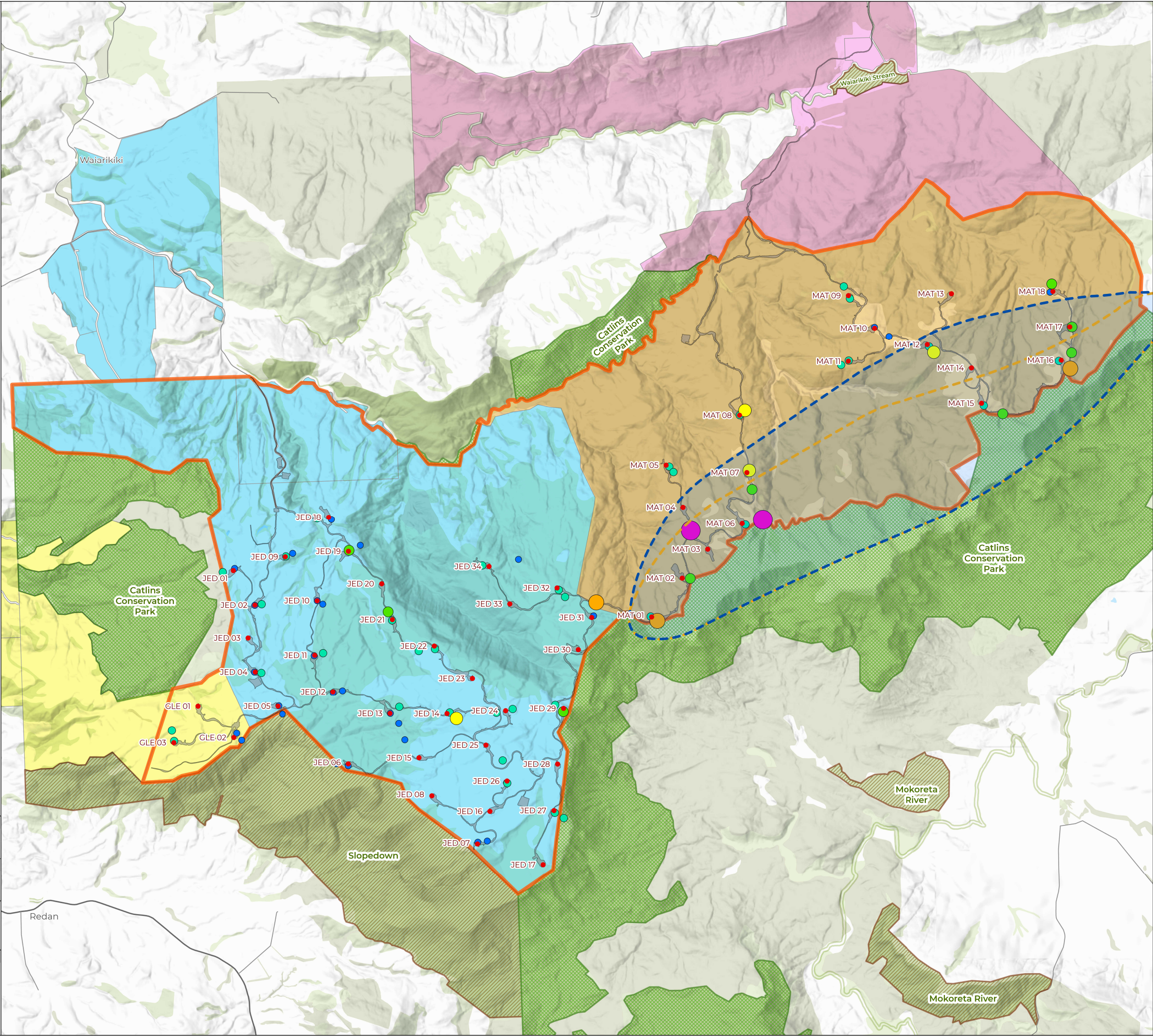
Weighted Score (Index) Surveys 5 to 8

- < -0.5
- -0.5 to 0
- 0.1 to 1
- 1 to 2
- 2 to 3
- > 3
- ▭ Bat Risk Area (Surveys 1 to 4)
- ▭ Bat Risk Area (Revised post surveys 5 to 8)

| MAP SCALE                                                    | PRINT DATE |
|--------------------------------------------------------------|------------|
| <div><div></div><div>N</div><div>Scale: 1:50,000</div></div> | 25/06/2025 |
|                                                              | VERSION    |
| <div><div>00.5123</div><div>Kilometers</div></div>           | 1.0        |

TITLE

**FIGURE LONG-TAILED BATS - 9**  
SURVEYS 5 – 8 WITH THE DATA EXPRESSED  
AS THE WEIGHTED SCORE BAI (INDEXED),  
AND DELINEATION OF BAT RISK AREAS.







LEGEND

Civil Works Design

Wind Farm Site

Wind Farm Properties

Glencoe Station

Matariki (Venlaw) Forests

Jedburgh Station

Transmission Line Properties

Port Blakely

DoC Conservation Areas

Conservation Park (s.19)

Stewardship Area (s.25)

Turbines Not Requiring Bat Mitigation

Turbines Requiring Bat Mitigation

Bat Risk Area

MAP SCALE



Scale: 1:50,000

PRINT DATE

24/06/2025

VERSION

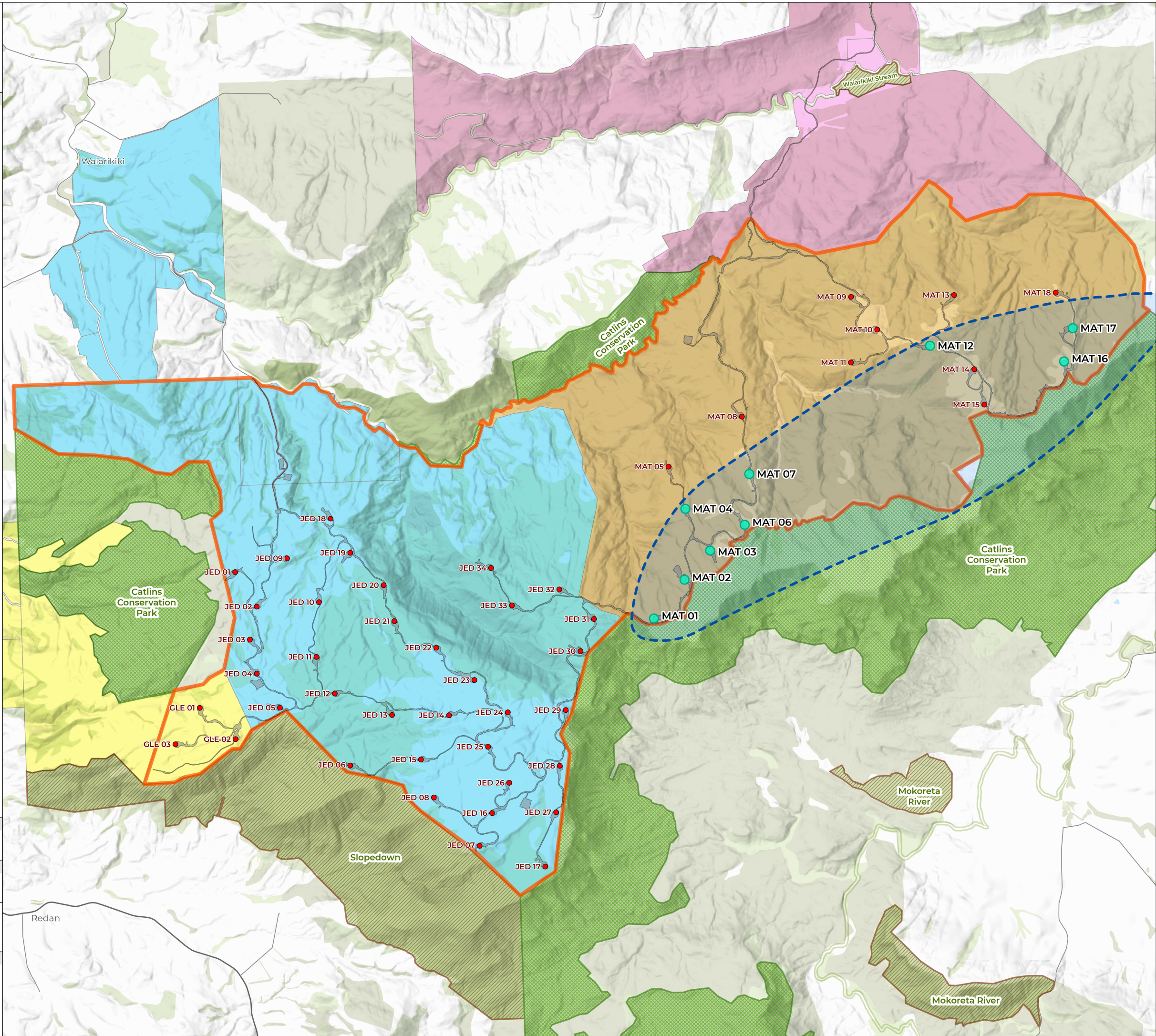
1.0

Kilometers



TITLE

**FIGURE LONG-TAILED BATS - 10**  
WIND TURBINES WITHIN THE BAT RISK AREA  
WHERE SPECIFIC MITIGATION IS REQUIRED  
TO MINIMISE EFFECTS ON BATS







LEGEND

Wind Turbines

- Turbines Not Requiring Bat Mitigation
- Turbines Requiring Bat Mitigation

Civil Works Design

Wind Farm Site

Conservation Park (s.19)

Stewardship Area (s.25)

Wind Farm Properties

Matariki (Venlaw) Forests

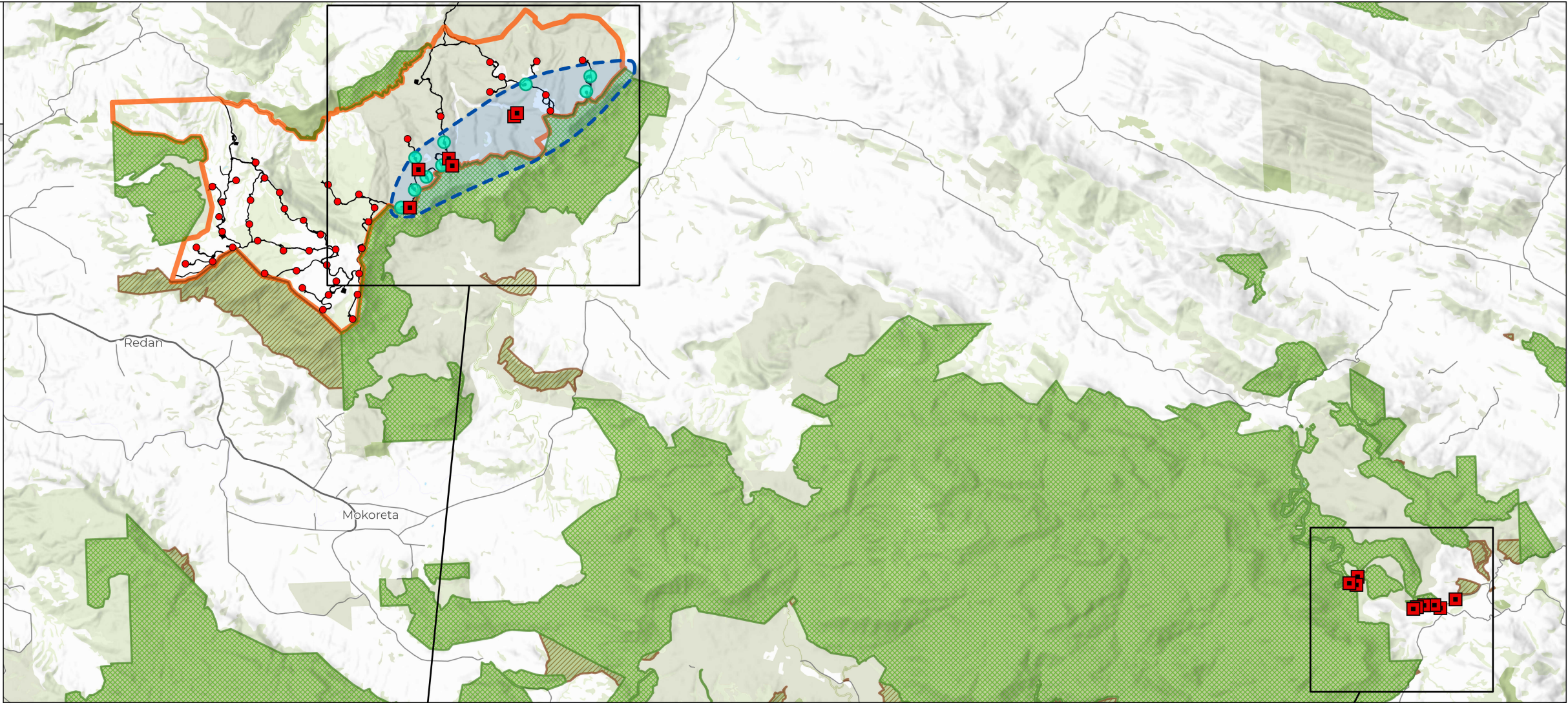
Jedburgh Station

Transmission Line Properties

Port Blakely

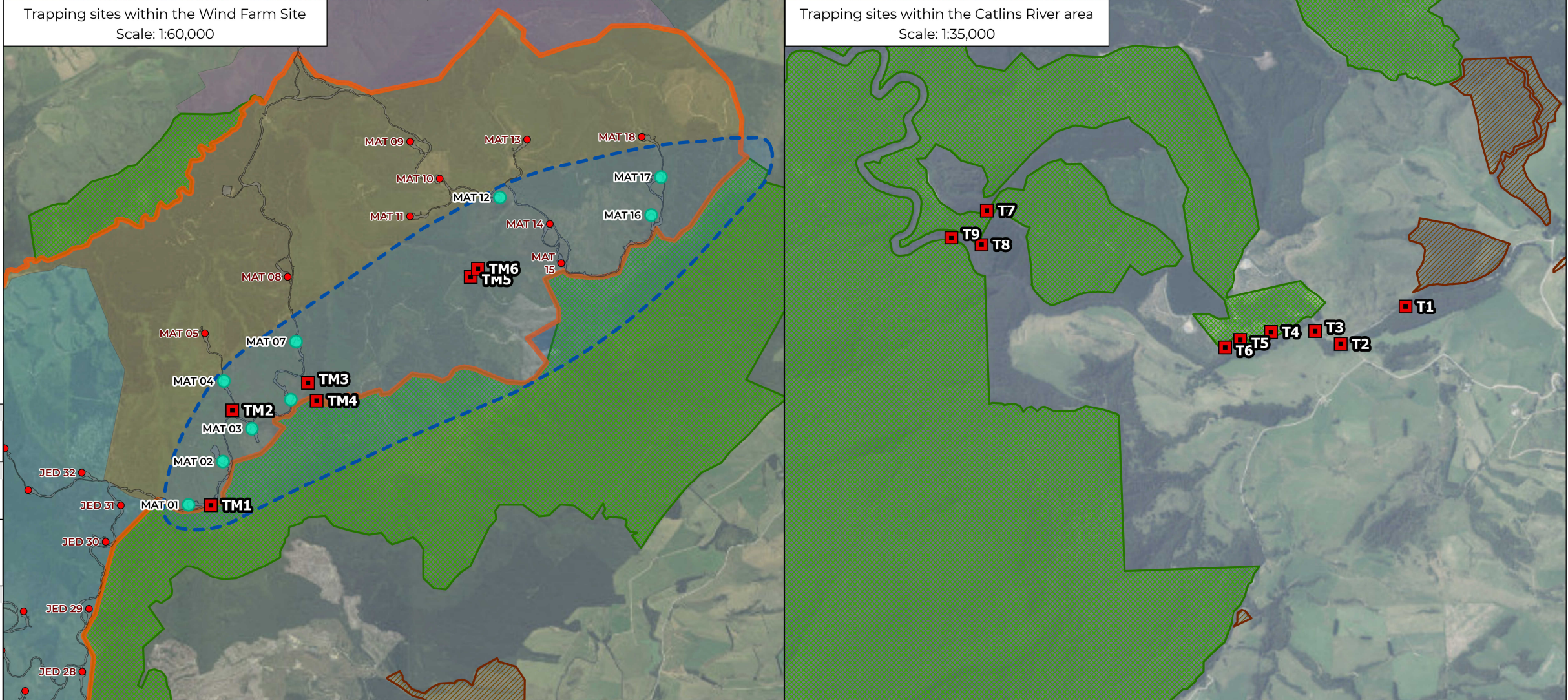
Bat Trapping Sites

Bat Risk Area



Trapping sites within the Wind Farm Site  
Scale: 1:60,000

Trapping sites within the Catlins River area  
Scale: 1:35,000



MAP SCALE



Scale: 1:150,000

PRINT DATE

24/06/2025

VERSION

1.0



TITLE

**FIGURE LONG-TAILED BATS - 11**  
LOCATION OF BAT TRAPPING SITES  
WITHIN THE CATLINS RIVER AREA  
AND THE WIND FARM SITE.





LEGEND

Wind Turbines

- Turbines Not Requiring Bat Mitigation
- Turbines Requiring Bat Mitigation

Civil Works Design

- Wind Farm Site
- Conservation Park (s.19)
- Stewardship Area (s.25)

Wind Farm Properties

- Matariki (Venlaw) Forests
- Jedburgh Station

Bat Roosts

- Female Roost
- Maternity Roost
- Male Roost
- Radio Tracking Observer

Bat Flight Paths

- TxMo1 flight path
- TxMo2 Flight path
- Bat Flying Area
- Bat Risk Area

**Note on Flight Paths**  
Flight paths are estimated based on observations from single observers and should be considered as generalised

|                                                                                                         |            |
|---------------------------------------------------------------------------------------------------------|------------|
| MAP SCALE                                                                                               | PRINT DATE |
| <br>Scale: 1:150,000 | 24/06/2025 |
|                                                                                                         | VERSION    |
|                                                                                                         | 1.0        |

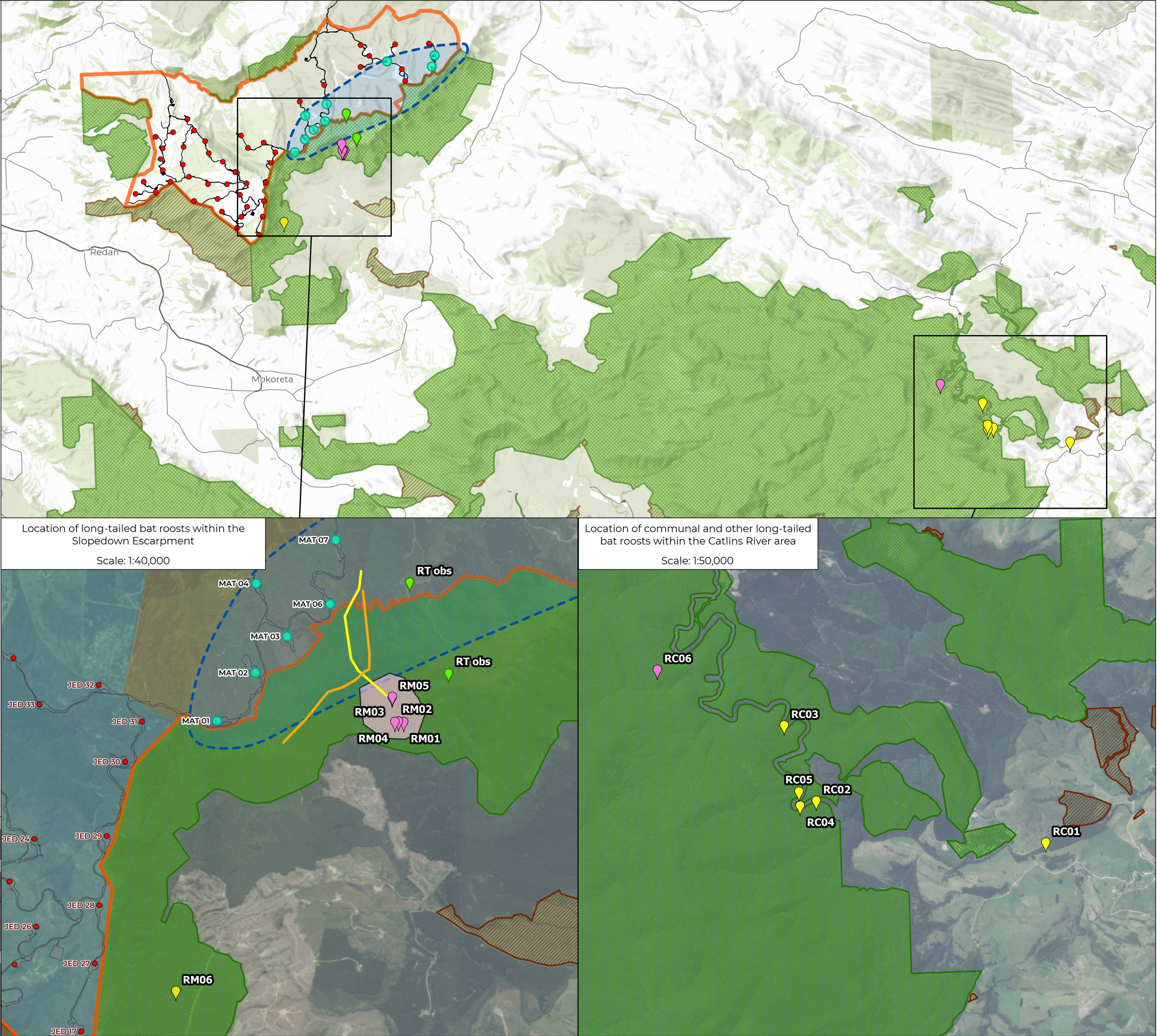
01246810

Kilometers

TITLE

**FIGURE LONG-TAILED BATS - 12**

BAT ROOSTS AND FLIGHT PATHS







LEGEND

- Turbines Not Requiring Bat Mitigation
- Turbines Requiring Bat Mitigation
- Bat Risk Area
- Wind Farm Site

Mapped Vegetation grouped by eco-value

Vegetation - Eco Value

- Road
- Negligible
  - Gorse scrub
- Low
  - Gorse/copper tussock grassland
- Moderate
  - Exotic conifer plantation forest
  - Mānuka scrub/shrubland
  - Mānuka-gorse/copper tussock shrubland
  - Wilding conifers/mānuka-copper tussock shrubland
- High
  - Mānuka/copper tussock grassland

MAP SCALE



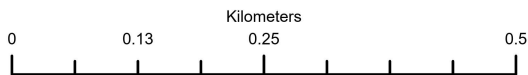
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PRINT DATE

24/06/2025

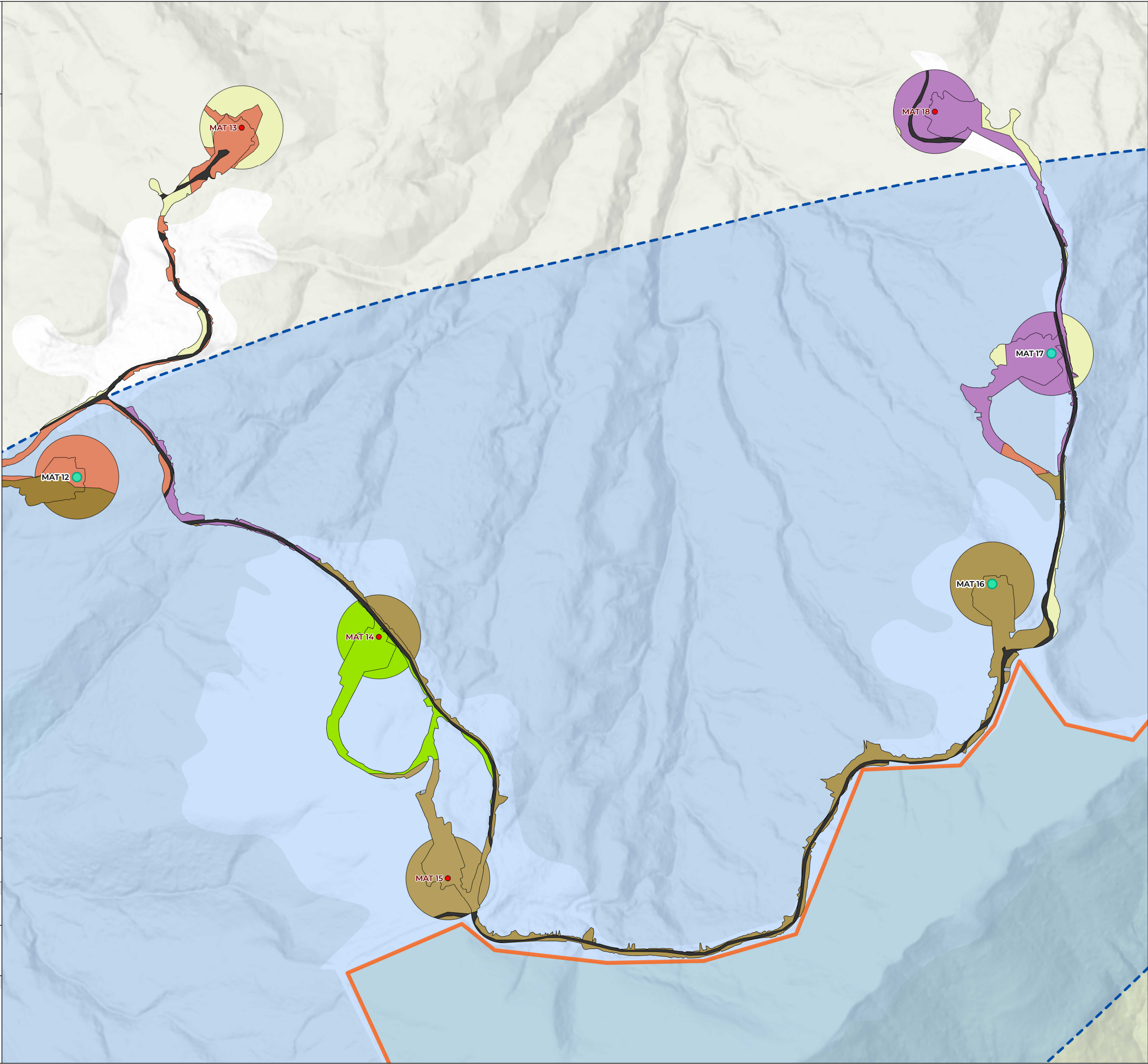
VERSION

1.0



TITLE

**FIGURE LONG-TAILED BATS - 13**  
EXAMPLE OF WILDLANDS MAPPED VEGETATION  
LAYER CLIPPED TO CIVIL WORKS DESIGN  
AND ROTOR SWEEP AREAS OF WIND TURBINES





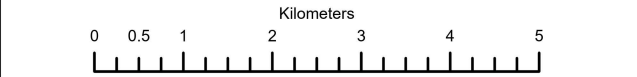


LEGEND

 Beresford Range pest control area  
(c. 10,000 ha, unfenced)

**Data Credits**  
Map of Catlins Trap Lines has been provided by the Department of Conservation and georeferenced to show in relation to the Beresford Range pest control area.

| MAP SCALE                                                                                              | PRINT DATE |
|--------------------------------------------------------------------------------------------------------|------------|
| <br>Scale: 1:85,000 | 24/06/2025 |
|                                                                                                        | VERSION    |
|                                                                                                        | 1.0        |

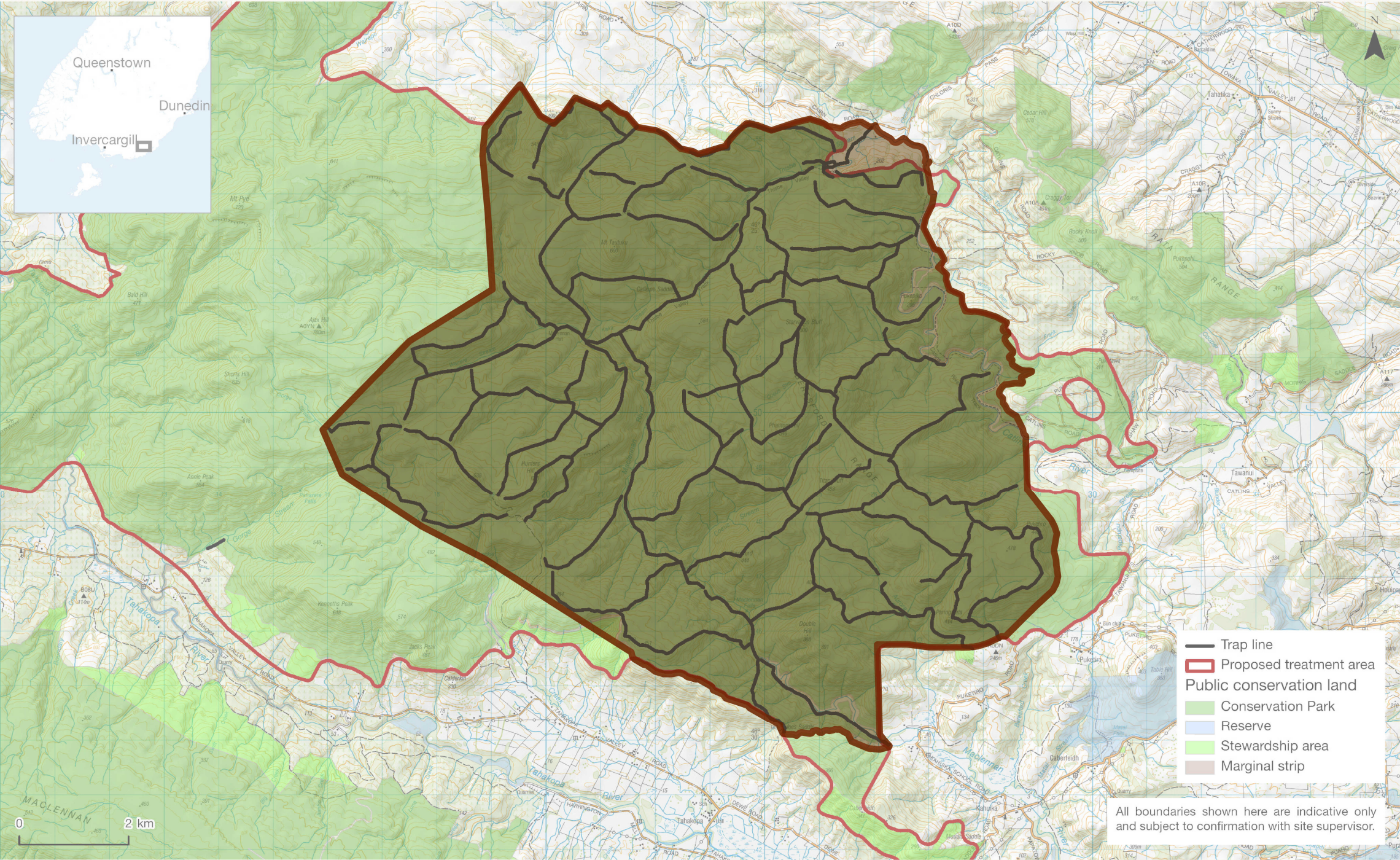


TITLE

**FIGURE LONG-TAILED BATS - 14**

CATLINS TRAP LINES WITHING WITHIN THE  
BERESFORD RANGE PEST CONTROL AREA.

Service Layer Credits:



## Catlins Trap Lines

Aerial Predator Control 2025

**Te Kāwanatanga  
o Aotearoa**  
New Zealand Government

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Q:\GIS\_Analysts\Projects\Aerial\_Pesticides\_Ours\Catlins\Catlins\_Planning.aprx





#### LEGEND

### Wind Farm

- Wind Turbines
- ◆ Grid Injection Point (GIP)
- Sub Station
- Transmission Line Route
- Transpower 220kV Transmission Line
- Civil Works Design
- Wind Farm Site
- ⊕ Environment Southland Macro Invertebrate Sites

### Catchments

- Mimiha Catchment
- Mokoreta Catchment
- Kaiwera Catchment

### Boundaries

- District Council Boundary
- Regional Council Boundary

#### MAP SCALE



Scale: 1:135,000

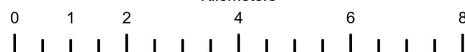
#### PRINT DATE

20/08/2025

#### VERSION

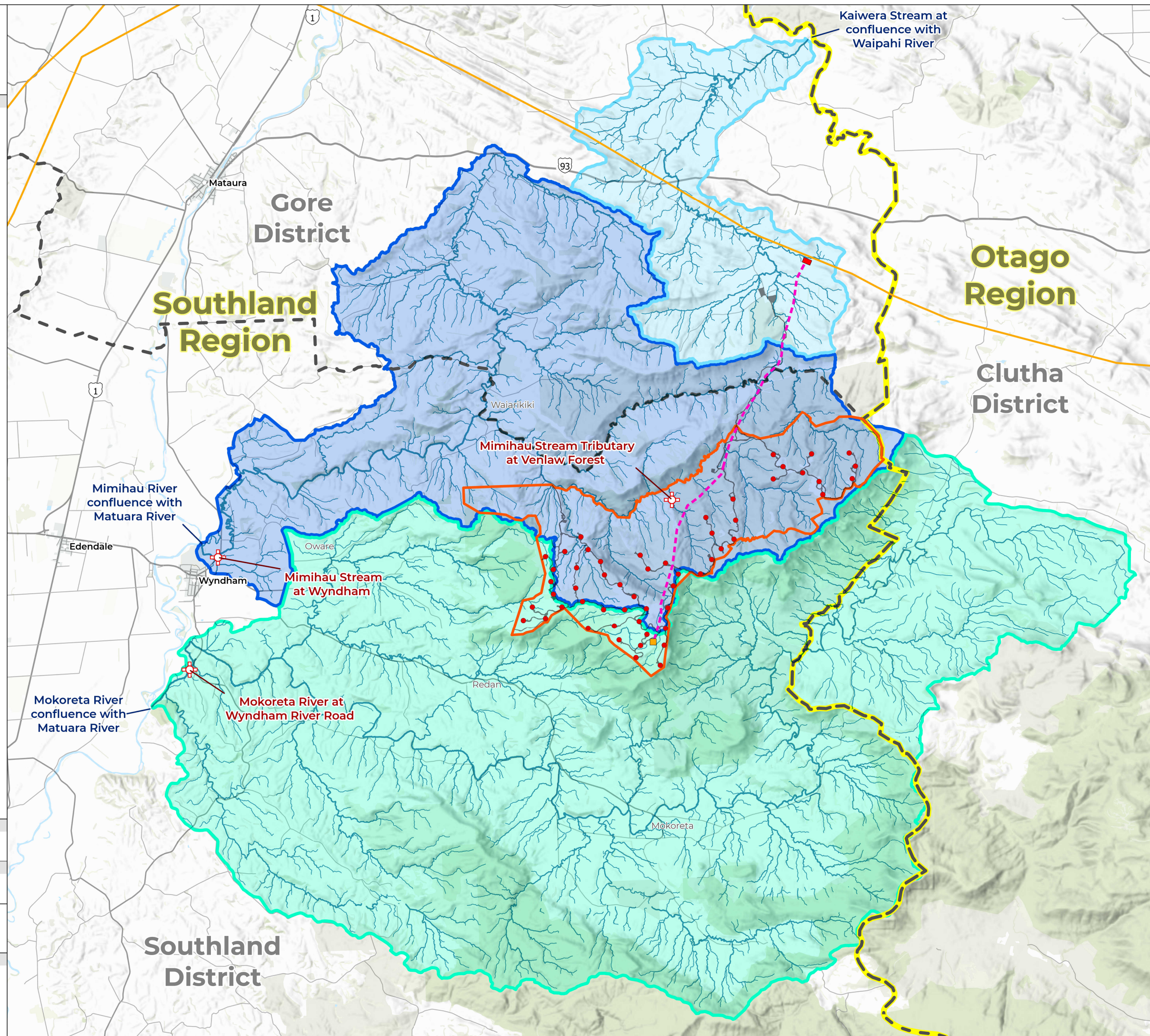
1.1

Kilometers



#### TITLE

**FIGURE AQUATIC ECOLOGY - 1**  
MIMIHAU, MOKORETA AND KAIWERA  
CATCHMENTS



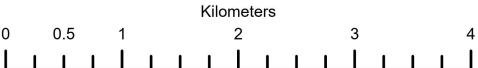




LEGEND

- Wind Turbines
- Grid Injection Point (GIP)
- Sub Station
- Transmission Line Route
- Transpower 220kV Transmission Line
- Civil Works Design
- Wind Farm Site
- Potential Water Take Location
- Notable Stream Crossings
- Aquatic Ecology Sites (Ryder)
- Aquatic Ecology Sites (Wildlands)
- Mimiha Catchment
- Mokoreta Catchment
- Kaiwera Catchment
- District Council Boundary
- Regional Council Boundary

**Note on Aquatic Ecology Site Surveys**  
Sites R1 to R5 surveyed by Ryder Feb 2008  
Sites W1 to W7 surveyed by Wildlands in Dec 2022  
Sites W8 surveyed by Wildlands in Apr 2023

| MAP SCALE                                                                                              | PRINT DATE |
|--------------------------------------------------------------------------------------------------------|------------|
| <br>Scale: 1:65,000 | 24/06/2025 |
|                     | VERSION    |
|                                                                                                        | 1.1        |

**FIGURE AQUATIC ECOLOGY - 2**  
AQUATIC ECOLOGY SITES & CATCHMENTS,  
NOTABLE STREAM CROSSINGS AND  
POTENTIAL WATER TAKE LOCATIONS

