

APPENDIX 2

Correspondence with DPaW regarding TECs

Monaghan, Paul

From: English, Val <Val.English@DPaW.wa.gov.au>
Sent: Wednesday, 2 April 2014 9:44 AM
To: Monaghan, Paul
Cc: Jones, Anthea
Subject: Rail Link survey
Attachments: AirportRail_VE_JPCmmnts_02042014.docx; PerthAirportRailWest27032014.jpg; PerthAirportRailEast27032014.jpg

Categories: ARL

Hi Paul

Attached – preliminary comments regarding floristic community types present in areas surveyed with you last Thursday, and map of point locations of observations.

Regards

*Val English
Principal Ecologist
Species and Communities Branch
Parks and Wildlife
Ph (08) 9334 0409*

Airport Rail Alignment

V. English and J. Pryde preliminary comments

01/04/2014

The best way to determine floristic community types in this part of the Swan Coastal Plain is to complete appropriate statistical analysis of comprehensive species lists from permanently marked quadrats that have been scored at least twice. Quadrats should be established in vegetation in best condition and not in ecotones. Comprehensive quadrat data should ideally be compared statistically to the full species lists for all quadrats from Gibson *et al.* (1994) "A floristic survey of the southern Swan Coastal Plain".

As appropriate analysis was not available for lands in High Wycombe and Perth Airport that are proposed for the airport rail link, a brief survey was undertaken by DPaW staff (with PTA) in specific areas on 27 March 2014. Soil and landform units and observations of substrate, combinations of key species and overall species composition were utilised to seek to clarify the floristic community types present. Attached maps indicate FCTs that are considered to occur based on floristic composition and other data collected during DPaW's brief survey.

Site 3; North end rail siding survey area, GPS points 5, 6, 7, 8

Combination of taxa, in particular *Adenanthos cygnorum*, *Scaevola canescens*, *Anigozanthos manglesii*, *Lomandra sericea*, *Dasyogon obliquifolius* on loamy sand with laterite pebbles indicates closest affinity to FCT20c. FCT20c confirmed at Ibis Place bushland about 350m SE.

Site 4; Central rail siding survey area, GPS point 12

Combination of taxa, in particular *Eremaea pauciflora*, *Mesomelaena pseudostygia*, *Anigozanthos manglesii*, *Cyathochaeta avenacea*, *Xylomelum occidentale*, *Scholtzia involucrata*, *Mesomelaena tetragona* on loamy sand on Southern River complex indicative of FCT20b.

Site 5: Central rail siding survey area, GPS points 13, 14

Combination of taxa, in particular *Banksia menziesii*, *Mesomelaena pseudostygia*, *Anigozanthos manglesii*, *Conospermum undulatum* on loamy sand on Southern River complex indicative of FCT20a.

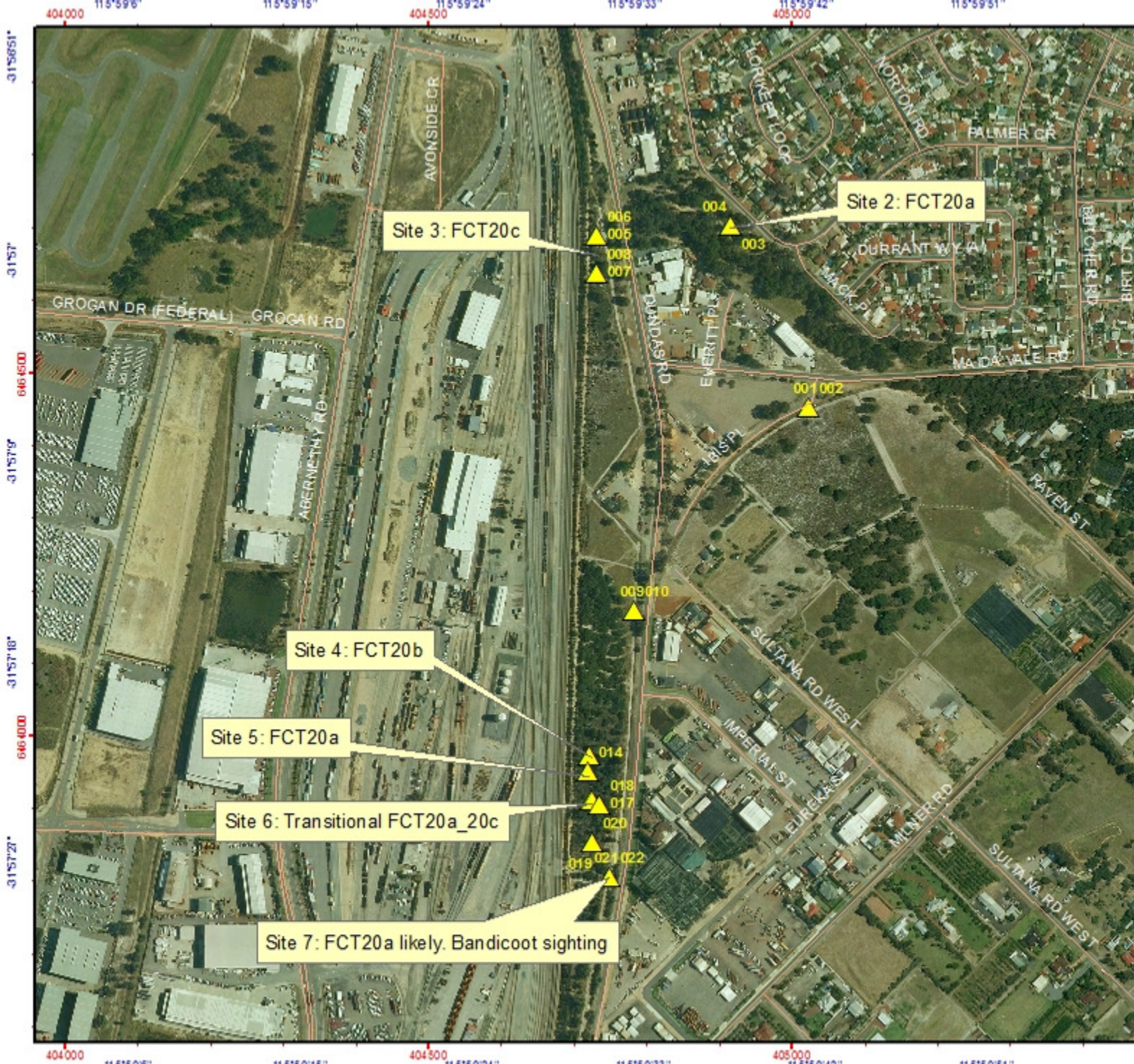
Site 6: Southern rail siding survey area, GPS points 15, 16, 17, 18

Combination of taxa, in particular *Corymbia calophylla*, *Eucalyptus marginata*, *Cyathochaeta avenacea*, *Patersonia occidentalis*, *Mesomelaena pseudostygia*, *Lambertia multiflora* var. *darlingensis*, *Adenanthos cygnorum*, *Scaevola canescens*, *Anigozanthos manglesii*, *Alexgeorgia nitens*, on grey loamy sand on Southern River complex indicative of transitional zone FCT20a/20c.

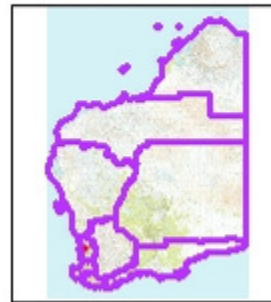
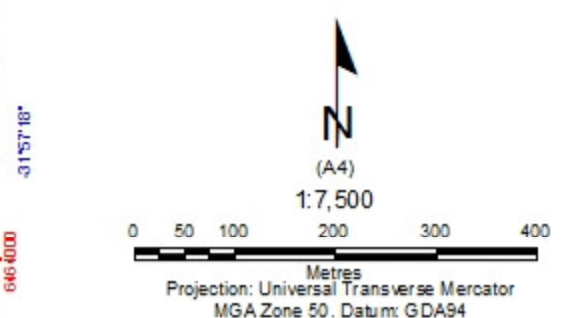
Site 8: Perth Airport Dunreath Drive GPS points 23, 24, 25, 26

Combination of taxa in particular *Corymbia calophylla*, *Eucalyptus marginata*, *Melaleuca preissiana*, *Xanthorrhoea preissii*, *Phlebocarya ciliata*, *Bossiaea eriocarpa*, *Cyathochaeta avenacea*, *Patersonia occidentalis*, *Burchardia congesta* on grey Bassendean sands indicative of FCT21c or 4. FCT21c is a P3

community, and FCT4 has no special status however species richness may be insufficient to support analysis that would clarify the FCT present.



- Legend**
- IRIS_Network_Main_Roads_Aug2011
 - ▲ PerthAirportRailPts_27032014_VE



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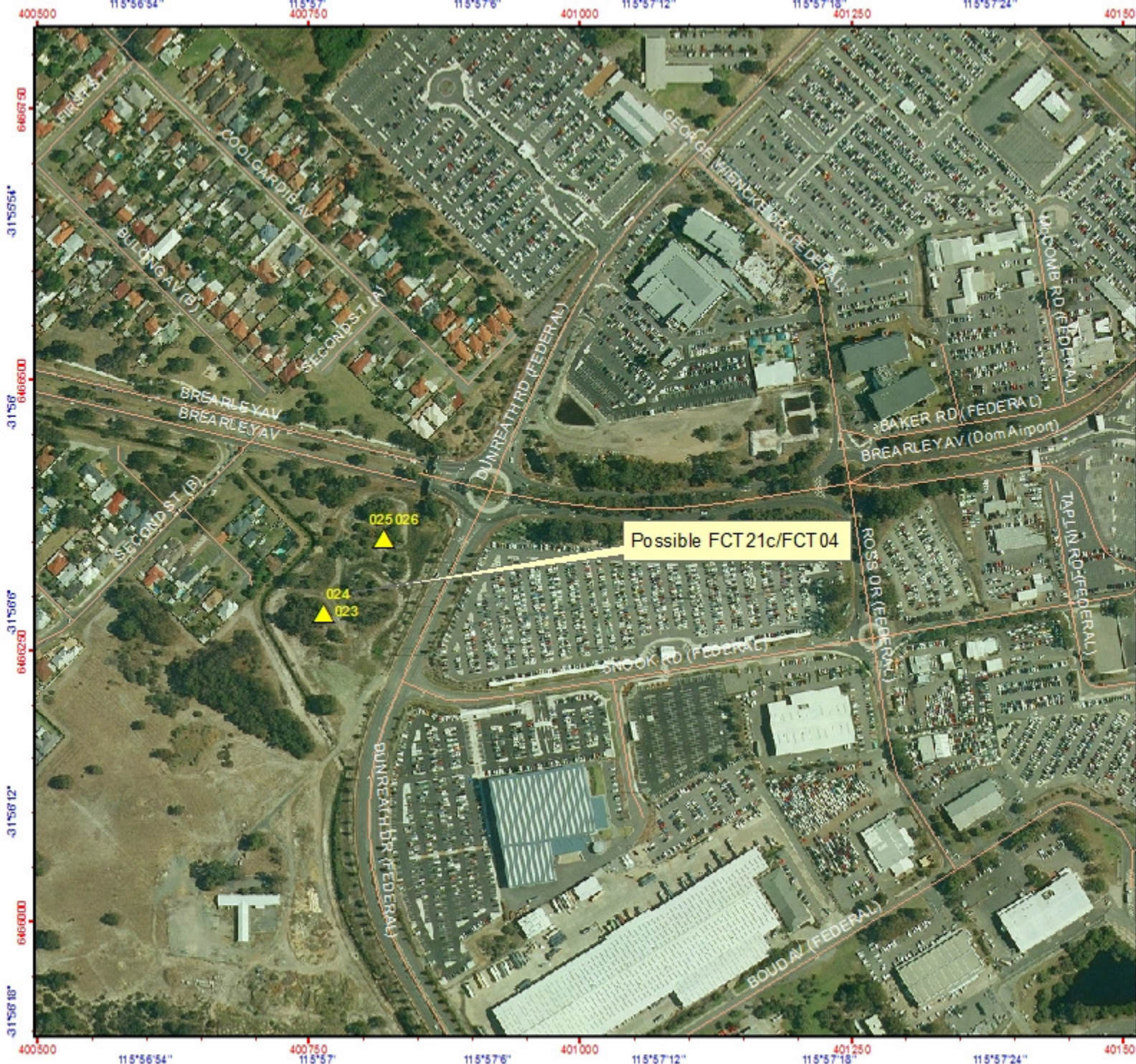
Grid shown at 15 second intervals
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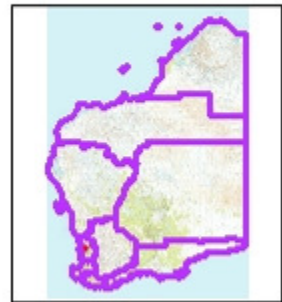
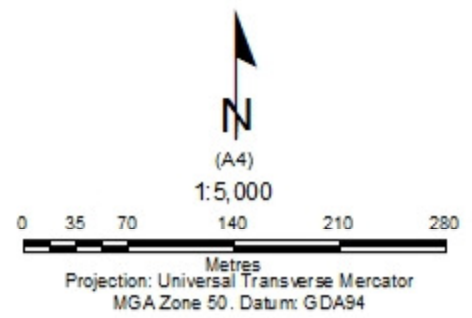
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- Legend**
- IRIS_Network_Main_Roads_Aug2011
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