

# Great Eastern Highway Desktop Assessment CPS 6952/1 – Clearing Permit Renewal Supporting Information

## 1 PROJECT BACKGROUND

Main Roads Western Australia (Main Roads) is engaged in ongoing maintenance and upgrade works of infrastructure within the Shire of Coolgardie and Yilgarn. To undertake these works, material is required and where possible, is locally sourced. A native vegetation clearing permit, CPS 6952/1, was granted to Main Roads on 17 June 2016, for the purpose of extracting road building material (Figures 1 and 2). To date 131.95 ha of the approved 290 ha of native vegetation in the CPS 6952/1 Permit Area has been cleared ahead of the end of the authorised clearing period on 17 June 2026. Main Roads will not complete all of the clearing approved under CPS 6952/1 prior to 17 June 2026, however materials are still required for planned future road upgrades.

The permit covers 20 existing and proposed material pit areas, as shown in the CPS 6952/1 permit maps and summarised below in Table 1.

This document has been prepared to support Main Roads' application for an extension of timeframe for clearing of native vegetation under clearing permit CPS 6952/1.

## 2 SCOPE AND OBJECTIVES

Main Roads seeks an extension of timeframe for clearing of native vegetation under clearing permit CPS 6952/1. To support the extension request, and in undertaking due diligence checks, Main Roads has undertaken a desktop assessment of conservation significant flora and vegetation to re-assess the potential impacts and demonstrate the acceptability of impacts of clearing the remaining native vegetation previously approved for clearing under CPS 6952/1.

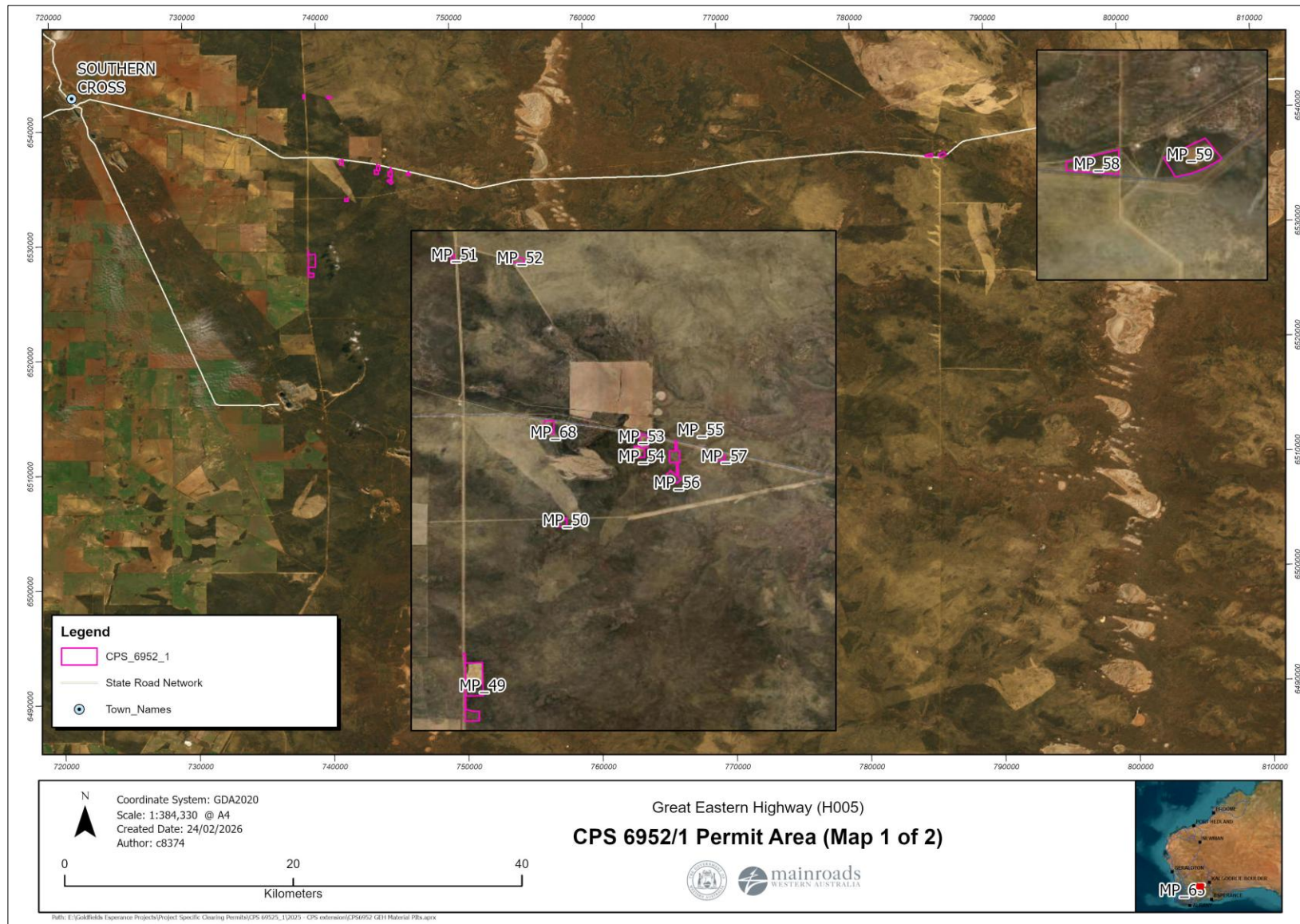


Figure 1. CPS 6952/1 Permit Area (Map 1 of 2)

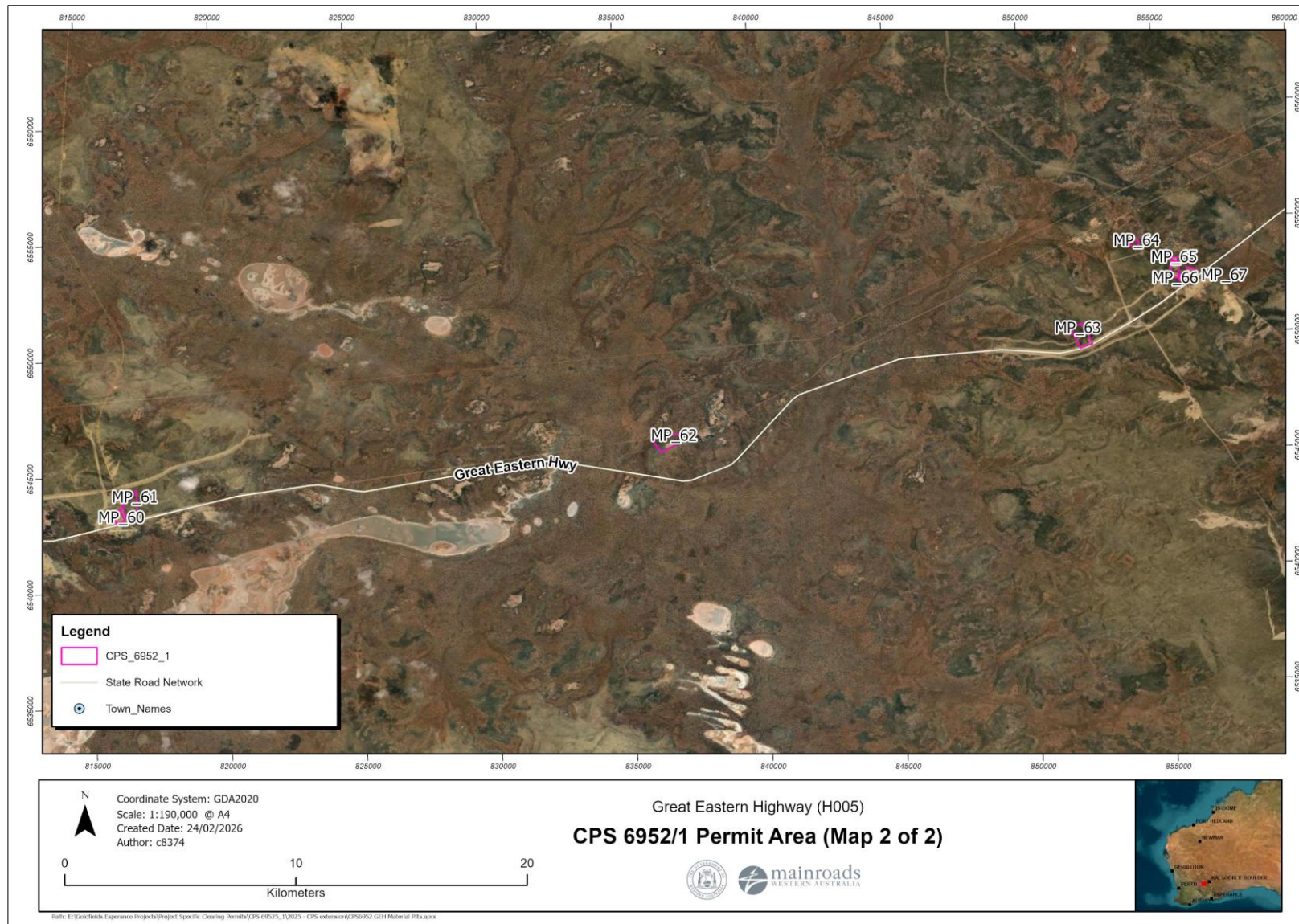


Figure 2. CPS 6952/1 Permit Area (Map 2 of 2)

### 3 CURRENT DISTURBANCE AND REHABILITATION STATUS

Main Roads approach to the extraction of materials is to undertake progressive clearing of native vegetation and extraction only as needed when road projects are occurring. This is followed by progressive rehabilitation once material resources have been exhausted. This approach reduces the impacts on the environment through limiting areas devoid of vegetation at any given time and has been applied for works under CPS 6952/1.

Table1 outlines the current clearing and disturbance status of each Pit Area within the CPS 6952/1 Permit Area.

**Table1: Current Disturbance Status for CPS 6952/1 Permit Area**

Material Pit (MP)	Map number CPS 6952/1	Current clearing/disturbance status	Hectares (ha) of Native Vegetation Remaining
MP_49	Plan 6952/1a	Cleared	0
MP_50	Plan 6952/1b	Test pitted for resource definition only	5.91
MP_51	Plan 6952/1d	Test pitted for resource definition only	3.13
MP_52	Plan 6952/1e	Test pitted for resource definition only	5.85
MP_53	Plan 6952/1f	Cleared	0
MP_54	Plan 6952/1f	Cleared	0
MP_55	Plan 6952/1f	Cleared	0
MP_56	Plan 6952/1f	Cleared	0
MP_57	Plan 6952/1g	Test pitted for resource definition only	4.15
MP_58	Plan 6952/1h	Partially cleared and northern half test pitted for resource definition only	9.57
MP_59	Plan 6952/1h	Partially cleared	8.64
MP_60	Plan 6952/1i	Partially cleared and test pitted	11.07
MP_61	Plan 6952/1i	Partially cleared and test pitted	40.46
MP_62	Plan 6952/1j	Partially cleared	41.16
MP_63	Plan 6952/1k	Partially cleared and test pitted	36.96
MP_64	Plan 6952/1l	Test pitted for resource definition only	8.60
MP_65	Plan 6952/1m	Cleared	0
MP_66	Plan 6952/1m	Partially cleared	9.16
MP_67	Plan 6952/1m	Cleared and regenerating	0
MP_68	Plan 6952/1c	Cleared	0

In accordance with Condition 10(c) of CPS 6952/1, an environmental specialist was engaged to undertake progressive monitoring of rehabilitation within MP\_53 and MP\_67 Pit Areas. The assessment concluded that both areas were showing germination rates that had increased from the previous report, and the plots were progressing towards achieving the completion criteria. Based on the current germination rates, it is considered that the pits will require additional opportunistic seeding to increase density and diversity in order to achieve the completion criteria. Weed burden was considered low to medium.

Given the focus of this Supporting Document is to assess the impacts of the remaining clearing, those areas already cleared under the approved permit have been excluded from further assessment in the remainder of this document. Information relating to the cleared areas provides context to the assessment of the remaining vegetated pit areas such as informing the likelihood of occurrence and impact assessment on conservation significant flora.

## 4 DESKTOP ASSESSMENT

The desktop assessment involved accessing available survey data and databases to undertake the following:

- Assessment and comparison of conservation significant flora species current status to the status at the time of grant of permit.
- Re-assessment of direct impacts on conservation significant flora species recorded during biological surveys.
- Re-assessment of likelihood of occurrence of conservation significant flora species recorded outside of the CPS 6952/1 Permit Area.
- Re-assessment of impacts to conservation significant fauna.

In addition to the above, further review of the biophysical environment has been undertaken as is provided below.

### 4.1 IBRA REGION

The Interim Biogeographic Regionalisation of Australia (IBRA Version 7) classifies Australia's landscape into 89 geographically distinct bioregions and 419 subregions based on common climate, geology, landform and vegetation. Regionalisation informs monitoring and evaluation of the Australian Government's natural resource management initiatives and regional planning framework for the National Reserve System. CPS 6952/1 Permit Area is located in the Coolgardie IBRA region (COO) and the Southern Cross subregion (COO02).

The following is a description of the Coolgardie region and Southern Cross subregion from 'A Biodiversity Audit of Western Australia's Biogeographical subregions in 2002' (CALM, 2003):

*Granite Strata of Yilgarn Craton with Archaean Greenstone intrusions in parallel belts. Drainage is occluded. Mallees and scrubs on sandplains associated with lateritised uplands, playas and granite outcrops. Diverse woodlands rich in endemic eucalypts, on low greenstone hills, valley alluvials and broad plains of calcareous earths. In the west, the scrubs are rich in endemic Proteaceae, in the east they are rich in endemic acacias. Arid to Semi-arid Warm Mediterranean.*

*Within this, COO02 has subdued relief, comprising gently undulating uplands dissected by broad valleys with bands of low greenstone hills. It lies on the 'Southern Cross Terrains' of the Yilgarn Craton. The granite strata of Yilgarn Craton are interrupted by parallel intrusions of Archaean Greenstone. Drainage is occluded. Valleys have Quaternary duplex and gradational soils, and include chains of saline playa-lakes.*

### 4.2 SURFACE GEOLOGY

The Surface Geology of Australia 1:1M scale dataset (Geoscience Australia, 2012) is a national coverage of outcrop and surficial geology. Four surface geology units have been mapped within the CPS 6952/1 Permit Area (Table 22).

**Table 2: Surface geological units within the CPS 6952/1 Permit Area**

Map symbol	Name	Description	Material Pit (%)
Agl	low-Ca granite 74297	Syenogranite, alkali-feldspar granite, monzogranite; in places recrystallised; some mixed granite and country rock assemblages; low-Ca granite	MP_58 (32.5), MP_59 (1.4)
Czl	ferruginous duricrust 38498	Ferruginous duricrust, laterite; pisolitic, nodular, vuggy; may include massive to pisolitic ferruginous subsoil, mottled clays, magnesite, reworked products of ferruginous and siliceous duricrusts, calcrete, gossan; residual ferruginous saprolite	MP_57 (100)
Czs	sand plain 38499	Sand or gravel plains; may include some residual alluvium; quartz sand sheets commonly with ferruginous pisoliths or pebbles; local clay, calcrete, laterite, silcrete, silt, colluvium	MP_50 (100), MP_51 (100), MP_52 (100), MP_58 (67.5), MP_60 (100), MP_61 (100), MP_63 (100), MP_64 (29.3), MP_66 (100)
Qrc	colluvium 38491	Colluvium and/or residual deposits, sheetwash, talus, scree; boulder, gravel, sand; may include minor alluvial or sand plain deposits, local calcrete and reworked laterite	MP_59 (98.6), MP_62 (100), MP_64 (70.7)

### 4.3 SOIL-LANDSCAPE UNITS

A review of the Soil-landscape mapping Western Australia dataset (DPIRD-064) indicates that two soil-landscape units, the Joseph and Johnston Land Systems, have been mapped within the CPS 6952/1 Permit Area (Table 3). Both soil-landscapes are commonly found across the landscape within this region (Figure 3).

**Table 3: Soil-Landscape mapping within CPS 6952/1 Permit Area**

Map unit	Description	Material Pit (%)
260Jo Joseph Land System	Undulating yellow sandplain, supporting dense mixed shrublands with patchy mallees  Decoded WA Soil Description: Yellow deep sand	MP_50 (100), MP_51 (100), MP_52 (100), MP_57 (100), MP_58 (100), MP_59 (100), MP_60 (100), MP_61 (100), MP_63 (100), MP_64 (74), MP_66 (100)
260Jn Johnston Land System	Gently undulating plains with occasional granite rises, supporting eucalypt woodlands and non-halophytic shrublands.  Decoded WA Soil Description: Alkaline red shallow loamy duplex	MP_64 (26), MP_62 (100)

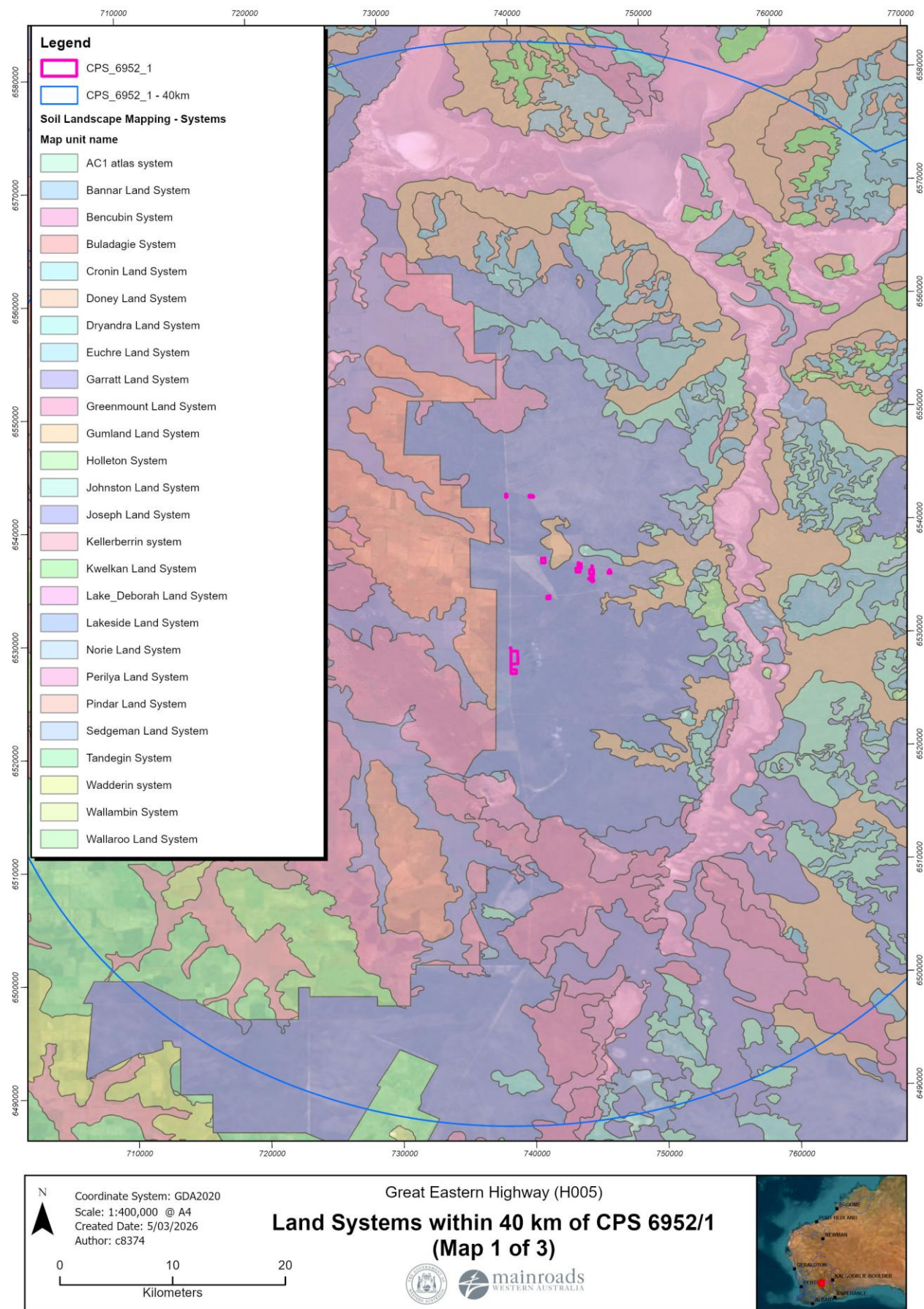


Figure 3a. Land Systems within and around CPS 6952/1 (Figure 1 of 3)

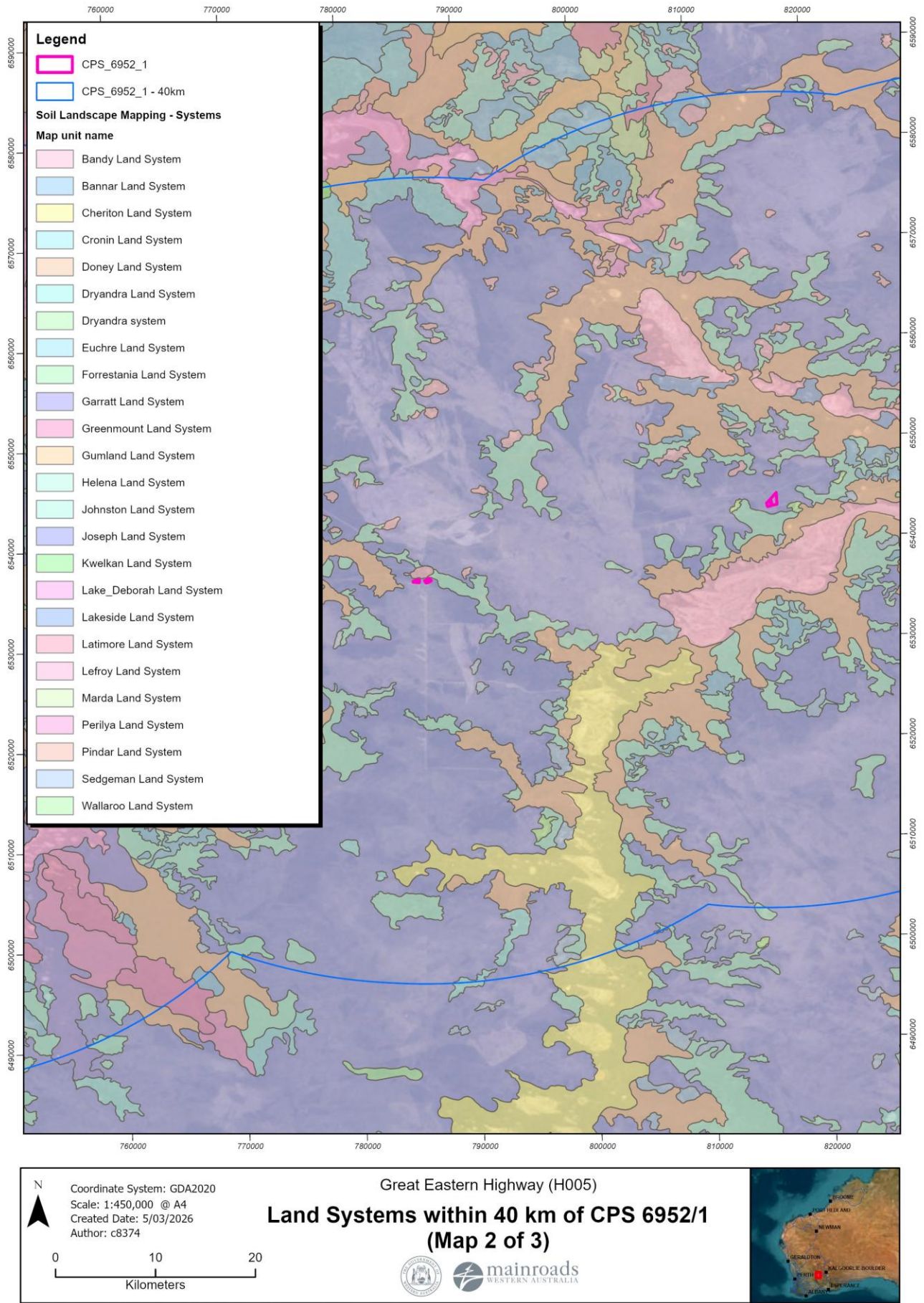


Figure 3b. Land Systems within and around CPS 6952/1 (Figure 2 of 3)

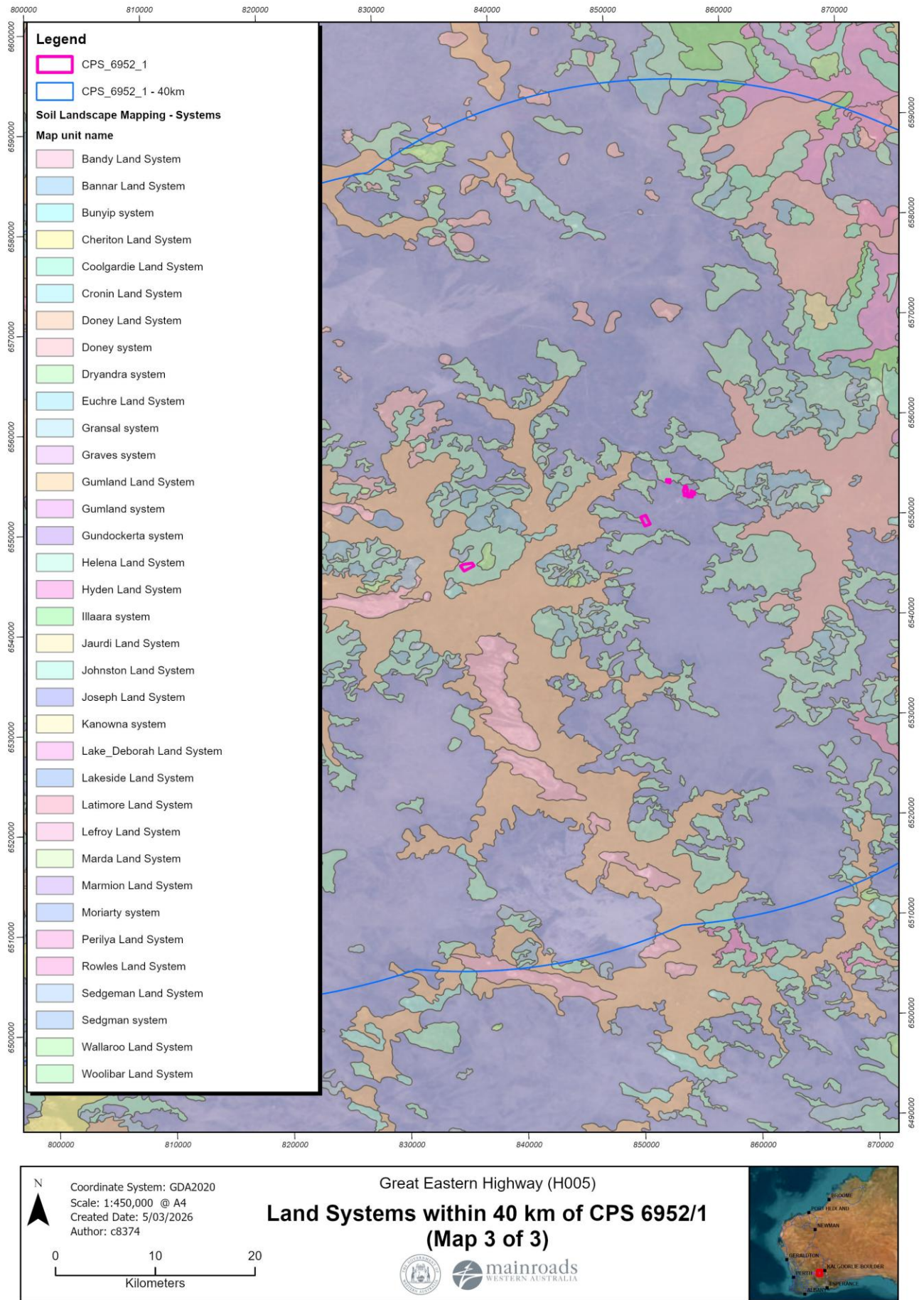


Figure 3c. Land Systems within and around CPS 6952/1 (Figure 3 of 3)

#### 4.4 WATER

A search of the surface hydrology database indicates no natural or artificial drainage lines are present within the CPS 6952/1 Permit Area (Geoscience Australia, 2015). No important wetlands (DBCA, 2018) or Ramsar wetlands (DBCA, 2017) occur within the vicinity of CPS 6952/1 and no salt lakes occur within close proximity. No impact on surface or groundwater is expected from clearing the remaining areas granted under CPS 6952/1.

#### 4.5 CONSERVATION ESTATES

No DBCA legislated lands and waters occur within the CPS 6952/1 Permit Area (DBCA, 2025).

Three of the Pit Areas within CPS 6952/1 (Plan 6952/1i and Plan 6952/1j) are surrounded by the Goldfields Woodlands National Park and one area (Plan 6952/1k) is surrounded by the Goldfields Woodlands Conservation Park. No impact on conservation estates will occur from clearing of the remaining areas granted under CPS 6952/1 given no clearing will occur outside of the Permit Area.

#### 4.6 FAUNA

Condition 9(a) of CPS 6952/1 specifies the permit holder is to engage a fauna specialist to inspect the Permit Area for the presence of *Leipoa ocellata* (Malleefowl). As noted within the 2016 compliance report, a survey of the CPS 6952/1 Permit Area for Malleefowl mounds was undertaken by GHD from 29 to 30 June 2016, with one inactive and one extinct mound identified. Clearing was kept to more than 50 metres from the locations. An additional pre-clearing survey undertaken in 2025 identified two old and disused (greater than 20 years) Malleefowl mounds with the CPS 6952/1 Permit Area for which Main Roads sought and were granted CEO approval to remove prior to clearing activities.

Prior to the next scheduled clearing campaign, pre-clearing inspections for Malleefowl will be undertaken in accordance with Condition 9(a).

#### 4.7 THREATENED AND PRIORITY ECOLOGICAL COMMUNITIES

DBCA Threatened and Priority Ecological Communities database identified five priority ecological communities within 40 km of the Clearing Permit Area, none of which are located within the CPS 6952/1 Permit Area or have the potential to be impacted due to the distance of separation from known occurrences.

#### 4.8 PRE-EUROPEAN VEGETATION

Pre-European Vegetation – Western Australia (NVIS Compliant version 20110715) dataset (DPIRD, 2013) contains the published and unpublished vegetation association mapping of J. S. Beard at 1:250K scale. This database was queried in conjunction with DBCA Statewide Vegetation Statistics 2018 to determine the extent remaining of pre-European vegetation associations mapped within the CPS 6952/1 Permit Area. Seven vegetation associations have been mapped within the Permit Area (Table4).

EPA Environmental Protection of Native Vegetation in Western Australia: Position Statement No. 2 - Clearing of native vegetation, with particular reference to the agricultural area (EPA, 2000) states:

The “threshold level” below which species loss appears to accelerate exponentially at an ecosystem level is regarded as being at a level of 30% of the pre-clearing extent of the vegetation type; a level of 10% of the original extent is regarded as being a level representing “endangered”.

Vegetation associations mapped within the CPS 6952/1 Permit Area are above the “Threshold level” at each scale considered. Clearing of the remaining vegetation from the approved CPS 6952/1 Permit Area will not significantly reduce the amount of vegetation at any scale.

**Table 4: Pre-European vegetation associations mapped within CPS 6952/1 Permit Area**

Vegetation association	Broad floristic formation	NVIS V description	Percent remaining		
			All WA	COO	COO02
8	<i>Eucalyptus</i> woodland	U+ ^Eucalyptus salmonophloia,Eucalyptus salubris\^tree\7 i	49.9	98.3	93.4
214	<i>Eucalyptus</i> woodland	U+ ^Eucalyptus dundasii,^Eucalyptus transcidentalis,Eucalyptus sp.\^tree\7 i	100	100	100
435	<i>Acacia</i> shrubland	M+ ^Acacia neurophylla,Acacia beauverdiana,Acacia resinomarginea\^shrub\4\c	76.7	99.2	99.2
522	<i>Eucalyptus</i> woodland	U+ ^Eucalyptus transcidentalis,Eucalyptus flocktoniae\^tree\7 i	99.9	99.9	100
1148	<i>Acacia</i> mixed open shrubland	U Eucalyptus sp.,Grevillea sp.\tree mallee,shrub\5\r;M+ ^^Acacia sp.,Allocasuarina sp.,Dryandra sp.\shrub\4 i	99.2	99.2	99.2
1413	<i>Acacia</i> mixed shrubland	M+ ^Acacia sp.,^Allocasuarina campestris,^Melaleuca uncinata\^shrub\4\c	76.6	98.2	98.1

#### 4.9 FIRE DISTURBANCE

The DBCA fire history dataset (DBCA, 2025) was queried for any fire event in the Permit Area in the last ten years. Three prescribed burns were recorded in the Permit Area since 2016, but no other fire events (Table 5: Fire events within CPS 6952/1 Permit Area tracked by DBCA

able 5).

**Table 5: Fire events within CPS 6952/1 Permit Area tracked by DBCA**

Material Pit	Fire type	Year of fire	Percentage burnt
MP_50	Prescribed burn	2024	37
MP_60	Prescribed burn	2019	100
MP_61	Prescribed burn	2019	0.2

Fire is considered to temporarily reduce the presence of conservation significant flora species, therefore reducing the potential for impact via clearing. Fire is also likely to temporarily reduce fuel loads and vegetation density, resulting in reduced habitat suitability for fauna species such as Malleefowl that require dense vegetation and leaf litter to construct mounds for nesting.

#### 4.10 PREVIOUS SURVEYS

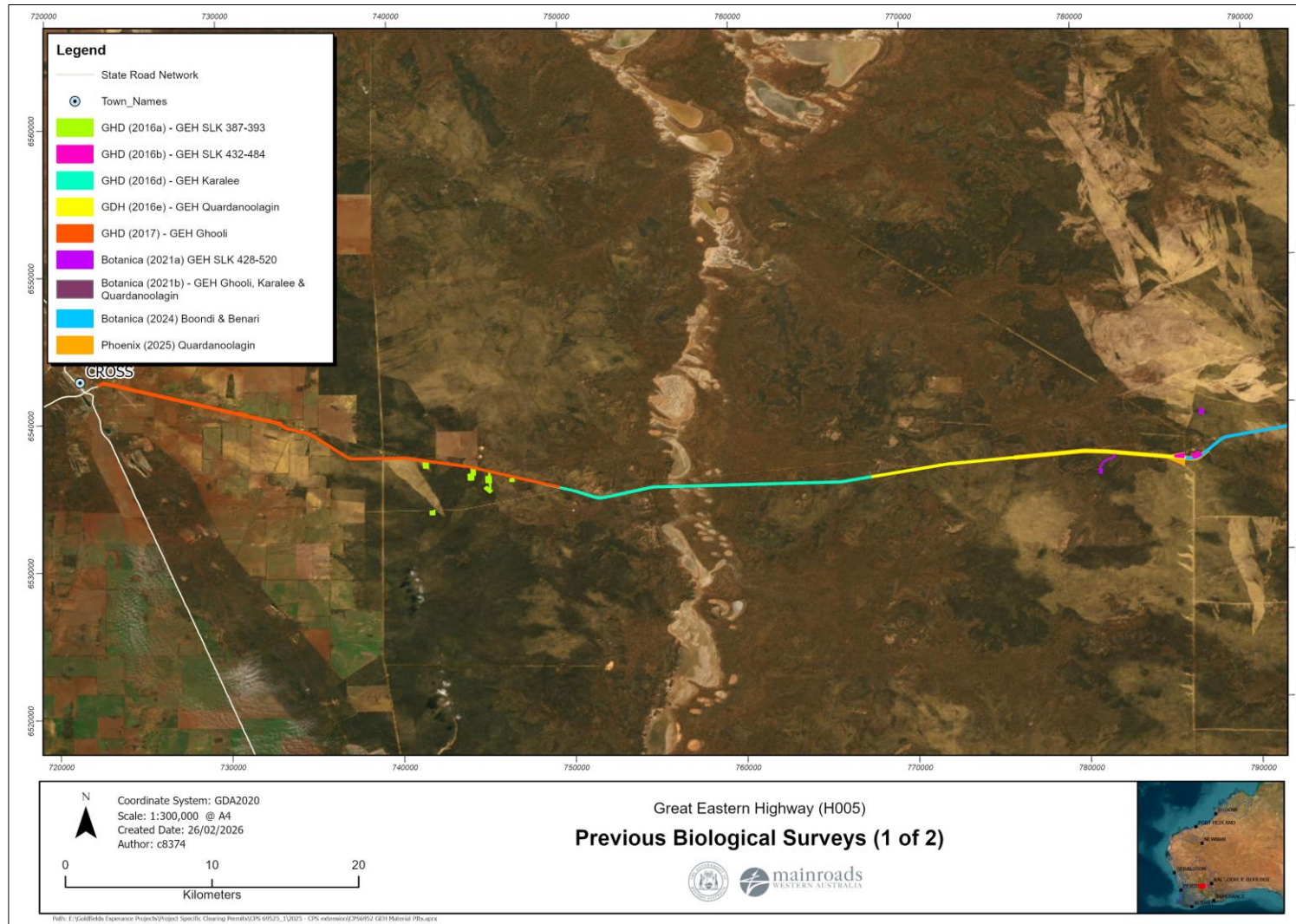
Three biological surveys undertaken in 2015 by GHD (survey reports received in 2016) were commissioned by Main Roads to inform the application and subsequent granting of CPS 6952/1. Seven biological surveys commissioned by Main Roads have since been undertaken between 2001 and 2025 located within 40 km of the CPS 6952/1 Permit Area (Figure 4a and 4b). All survey reports and associated data has been reviewed and information utilised as part of the desktop assessment undertaken to develop this document.

- GHD (2016a) Great Eastern Highway Material Pits, Southern Cross to Kalgoorlie, SLK 387 - 393 Biological Assessment
- GHD (2016b) Great Eastern Highway Material Pits, Southern Cross to Kalgoorlie, SLK 432 - 484 Biological Assessment
- GHD (2016c) Great Eastern Highway Material Pits, Southern Cross to Kalgoorlie, SLK 501 - 507 Biological Assessment
- GHD (2016d) Great Eastern Highway Karalee SLK 394.5-414 Biological Assessment. Prepared for Main Roads Western Australia.
- GHD (2016e) Great Eastern Highway Quardanoologin SLK 414.5 – 432 Biological Assessment. Prepared for Main Roads Western Australia.
- GHD (2017). Great Eastern Highway Ghooli SLK 368.43-395 Biological Assessment. Prepared for Main Roads Western Australia.
- Botanica Consulting (2021a). Flora, Vegetation and Fauna Assessment of the Great Eastern Hwy Material Pits SLK 428-519.
- Botanica Consulting (2021b). Memorandum: Great Eastern Hwy Ghooli, Karalee & Quardanoologin Flora/ Fauna Assessment
- Botanica Consulting (2024): Great Eastern Highway-Boondi and Benari Sections (SLK 432 -491.2 & 491.2 -511.5) Biological Survey.
- Phoenix (2025). Targeted Flora and Vegetation Survey for the Quardanoologin (Mt Palmer) Great Eastern Highway Project

In addition to Main Roads commissioned surveys, publicly available data from surveys commissioned by other proponents, has been accessed to inform the desktop assessment. Other proponent surveys that have been referenced because they are located within 40 km of the CPS 6952/1 Permit Area, are identified in Table 6.

**Table 6. Summary of Publicly Available Biological Surveys Relevant to the Proposal**

Consultant and Survey Name	Survey Details
<p><b>Phoenix Environmental Sciences (Phoenix) (2021a)</b></p> <p>Baseline Flora, vegetation and fauna surveys for the Parker Range Haul Road Project</p> <p>Report prepared for Mineral Resources Pty Ltd</p>	<p><b>Survey Area:</b> The Survey Area covers a proposed 88 km private haul road to link the Parker Range mining operation with the Koolyanobbing Operations for the processing of hematite iron ore (1,498.7ha) (Figure ).</p> <p>Extrapolation was undertaken generally 500 m from the centreline of the proposed alignment.</p> <p><b>Type:</b> Phoenix Environmental Sciences (2021) Baseline Flora, vegetation and fauna surveys for the Parker Range Haul Road Project (to support Referral S38 documentation).</p> <ul style="list-style-type: none"> <li>– Two season flora and vegetation survey in the study area</li> <li>– SRE survey</li> <li>– Level 1 vertebrate fauna survey</li> <li>– Targeted survey for significant fauna species</li> <li>– Level 2 short range endemic (SRE) invertebrate fauna survey</li> </ul> <p><b>Timing:</b> Flora and vegetation surveys commenced October 2019, conducted over several seasons.</p> <p><b>Available at:</b> <a href="https://www.epa.wa.gov.au/proposals/parker-range-mt-caudan-iron-ore-haul-road-proposal">https://www.epa.wa.gov.au/proposals/parker-range-mt-caudan-iron-ore-haul-road-proposal</a>. Accessed 5 February 2026</p> <p><b>Context for this assessment:</b></p> <ul style="list-style-type: none"> <li>• The survey area covers the Permit Area MP_51</li> <li>• Approximately 1.4 km west from MP_52</li> <li>• Approximately 21.4 km west from MP_50</li> </ul>
<p><b>Phoenix Environmental Sciences (2021b).</b></p> <p>Memo report for the Mt Walton Road bypass lane flora targeted search survey.</p> <p>Report prepared for Mineral Resources Ltd.</p>	<p><b>Survey Area:</b> The Survey Area covers a proposed 88 km private haul road to link the Parker Range mining operation with the Koolyanobbing Operations for the processing of hematite iron ore (1,498.7ha) (Figure ).</p> <p>Extrapolation was undertaken generally 500 m from the centreline of the proposed alignment.</p> <p><b>Type:</b> Baseline and targeted flora and vegetation survey and a Basic fauna survey</p> <p><b>Timing:</b> Field survey conducted 20 March 2021.</p> <p><b>Available at:</b> <a href="https://www.mainroads.wa.gov.au/49f2d8/globalassets/community-environment/environment/clearing-reveg/cps818/actual-clearing-2022/2399-great-estern-highway-mt-walton-intersection-goldfields-esperance-region.pdf">https://www.mainroads.wa.gov.au/49f2d8/globalassets/community-environment/environment/clearing-reveg/cps818/actual-clearing-2022/2399-great-estern-highway-mt-walton-intersection-goldfields-esperance-region.pdf</a>. Accessed 16 February 2026</p> <p><b>Context for this assessment:</b></p> <ul style="list-style-type: none"> <li>• The survey area occurs 0.6 km south of MP_60 and in proximity to MP_61</li> </ul>



**Figure 4a. Previous Main Roads Biological Surveys (Map 1 of 2)**

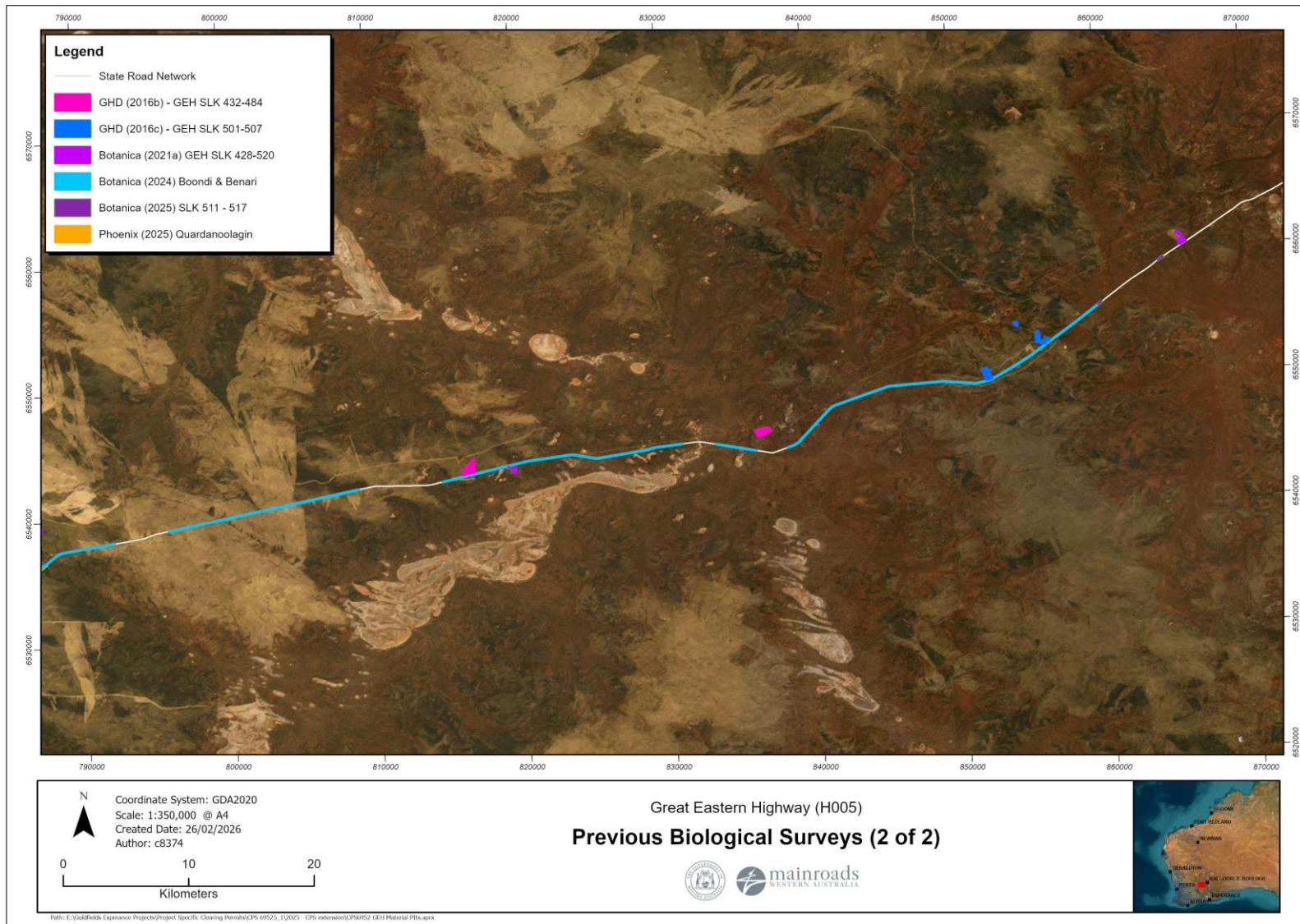


Figure 4b. Previous Main Roads Biological Surveys (Map 2 of 2)

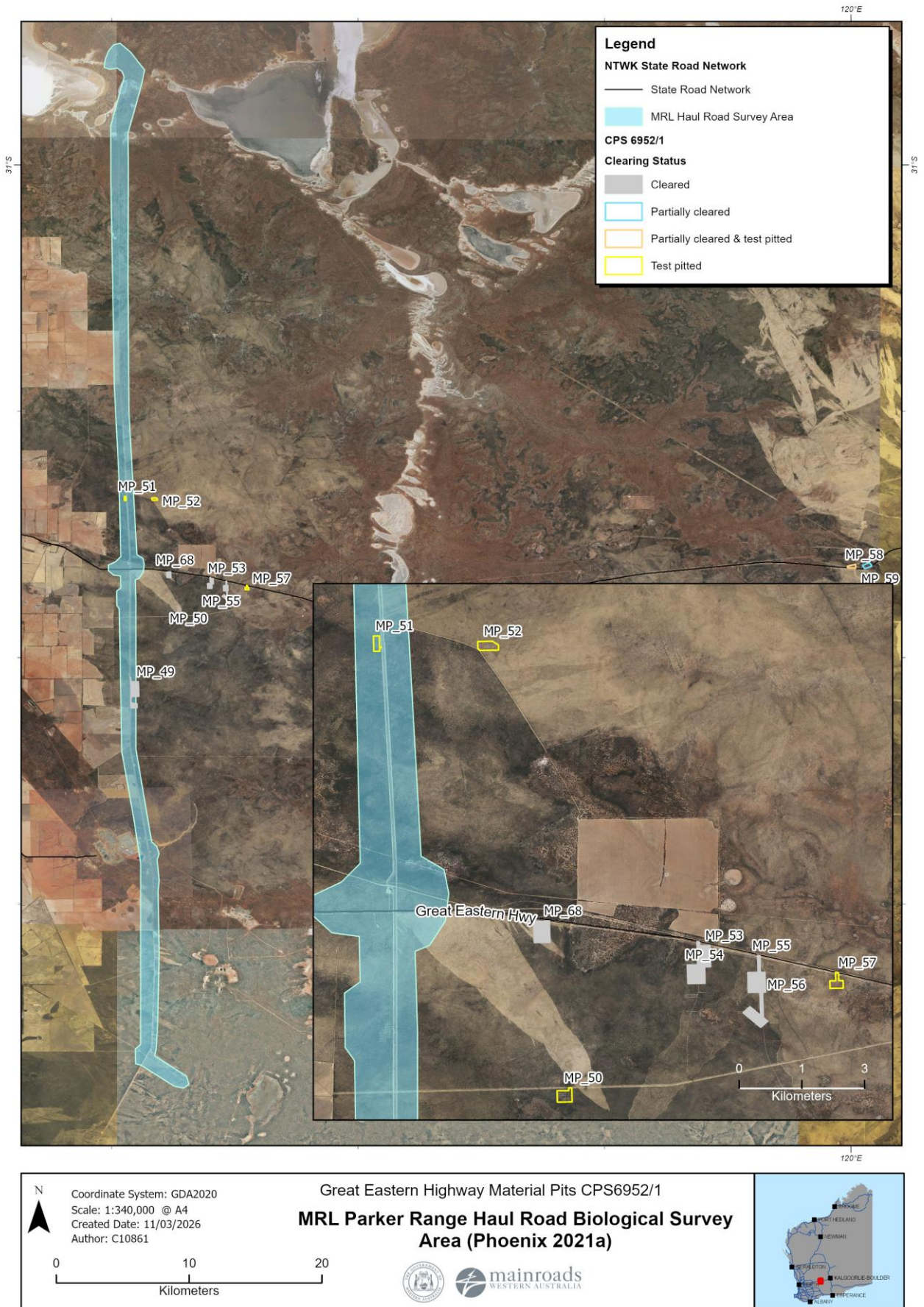
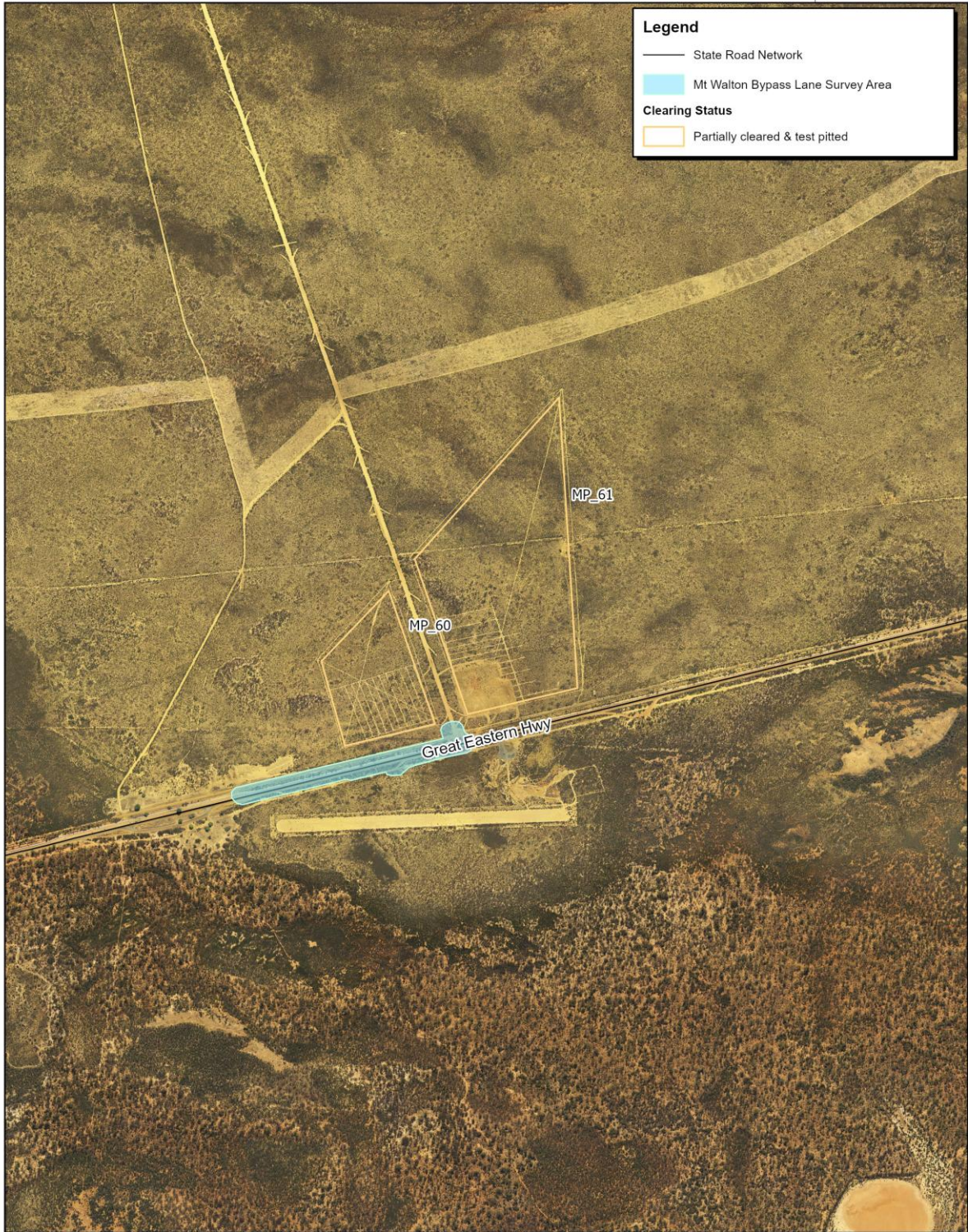





Figure 5. MRL Parker Range Haul Road Biological Survey Area (Phoenix 2021a)



 Coordinate System: GDA2020 Scale: 1:20,000 @ A4 Created Date: 11/03/2026 Author: C10861	Great Eastern Highway Material Pits CPS6952/1	
	<p>0 1 Kilometers</p> 	

Path: E:\Goldfields Esperance Projects\Great Eastern Highway\GEH Material Pits\Material Pits (2).aprx

**Figure 6. Great Eastern Highway Mt Walton Road Intersection (Phoenix 2021b)**

#### **4.11 PRE-SURVEY SIGNIFICANT FLORA DESKTOP LIKELIHOOD OF OCCURRENCE**

A search of DBCA databases (WAHerb and TPFL 40 km buffer) was conducted for each Pit Area within the CPS 6952/1 Permit Area.

The DBCA databases returned records for 118 conservation significant flora species requiring a likelihood of occurrence assessment within the Permit Area. The PMST and search of ALA database (both with a 40 km buffer) returned a further 10 and 36 conservation significant flora respectively.

A likelihood of occurrence assessment was undertaken in accordance with the Guideline provided in Table 1, utilising four categories including 'Recorded', 'Possible to occur', 'Unlikely to occur' and 'Highly Unlikely to occur' in the Permit Area.

Conservation significant flora occurring beyond the 40 km buffer search of DBCA databases, were not considered in the likelihood of occurrence assessment. Results of the pre-survey desktop likelihood of occurrence assessment are contained in Appendix 1.

#### **4.12 POST-SURVEY SIGNIFICANT FLORA DESKTOP LIKELIHOOD OF OCCURRENCE**

The post-survey desktop likelihood of occurrence assessment has been undertaken in accordance with the Guideline provided in Table 1. As consistent with the pre-survey desktop likelihood of occurrence assessment and identified in Appendix 1, the assessment is presented per Pit Area, providing a comparison of pre-survey assessment with data obtained during the Main Roads commissioned surveys and other botanical surveys listed in Section 4.10 and Table 6.

Of the species assessed, 25 conservation significant species were considered as 'Possible to occur' or 'Recorded' in the Permit Area. These species have been presented in Table 2 and figures provided in Appendix 2. If conservation significant flora is not present within Table 2, as depicted in Table 1, the taxon is considered 'Unlikely' or 'Highly Unlikely' to occur due to factors such as known distribution, proximity of records, habitat, historic or a lack of known records, and survey efficacy.

##### **4.12.1 SIGNIFICANT FLORA CONSERVATION STATUS CHANGES**

Since the grant of CPS 6952/1 in 2016, one taxon identified as 'Possible', 'Likely' or 'Recorded' across various Pit Areas, *Leucopogon* sp. *Yellowdine* (M. Hislop & F. Hort MH 3194), has had a reduction in conservation status from a Priority 1 to Priority 2.

No other conservation significant flora have changed conservation status since this time.

**Table 1. Likelihood of Occurrence Guideline**

Likelihood of Occurrence	Pre Considerations for Likelihood of Occurrence	Post Survey Likelihood of Occurrence
Recorded	1. The species has been recorded in the Permit Area.	1. The species has been recorded in the Permit Area.
Possible to occur	1. The Permit Area is within the natural distribution for the species. 2. DBCA records of the species occur within the Desktop Area and in proximity to the Permit Area (within 10 km). 3. The species is strongly linked to a specific habitat, of which only a small amount is present in the Permit Area; or the species has more general habitat preferences, but only some suitable habitat is present in the Permit Area. 4. The species is moderately recorded.	1. The Permit Area is within the natural distribution species 2. The species was not recorded within the Permit Area; however, identification is or may be cryptic and existing records of the species occur in proximity to the Permit Area (within 10 km). 3. The species is strongly linked to a specific habitat of which some is present in the Permit Area, or the species has more general habitat preferences, and some suitable habitat is present in the Permit Area. 4. The records in proximity to the Permit Area were documented within 40 years ago. 5. The botanical survey effort was high, conducted within the appropriate flowering period, or the Permit Area was surveyed outside the reported flowering period with documented records to suggest that the species could be satisfactorily identified.
Unlikely to occur	1. The Permit Area occurs near the extent of the known distribution for the species, or 2. DBCA records of the species occur within the Desktop Area, but greater than 20 km of the Permit Area. 3. The species is linked to a specific habitat, which is absent from the Permit Area; or suitable habitat is present in the Permit Area, however there are no existing DBCA records of the species within 20 km. 4. The species is infrequently recorded.	1. The Permit Area occurs near the extent of the known distribution for the species, or 2. DBCA records of the species occur within the Desktop Area, but greater than 20 km of the Permit Area and the species is not cryptic. 3. The species is strongly linked to a specific habitat which is absent from the Permit Area; or suitable habitat is present in the Permit Area, however there are no existing DBCA records of the species within 20 km. 4. The species is infrequently recorded. 5. The records in proximity to the Permit Area were documented >40 years ago. 6. The botanical survey effort was high, conducted within the appropriate flowering period.
Highly Unlikely to occur	1. The species' range is very restricted and does not include the Permit Area; or is not considered extant in the Permit Area. 2. Existing DBCA records of the species are greater than 30 km from the Permit Area, or 3. The species is strongly linked to a specific habitat, which is absent from the Permit Area. 4. The species is rarely recorded.	1. The species' range is very restricted and does not include the Permit Area; or is not considered extant in the Permit Area. 2. Existing DBCA records of the species are greater than 30 km from the Permit Area and the species is not cryptic. 3. The species is strongly linked to a specific habitat, which is absent from the Permit Area. 4. The species is rarely recorded. 5. The records in proximity to the Permit Area were documented >40 years ago. 6. The botanical survey effort was high, conducted within the appropriate flowering period.

**Table 2. Conservation Significant Flora Risk Assessment**

Species	Conservation Status	No. of known records impacted by Project to date	Description, distribution and habitat preferences <sup>1</sup>	Assessment of risk from continued clearing
<i>Acacia cylindrica</i>	P3	75 (MP_60) 113 (MP_61) 4 (MP_62)  Total 192 individuals	Spreading shrub, 1.5-3(-4) m high. Fl. yellow, Aug to Oct. Yellow/brown sand, gravelly soils. Undulating plains, flats.	<p>Recorded: MP_60 (2016), MP_61(2016), MP_62 (2016)</p> <p>Thirty-two populations are known to occur in the restricted WA Herbarium database and 5 populations from the restricted DBCA database (5 duplicates<sup>1</sup>), ranging from near Kulja in the west, almost 137 km to its eastern extent near Bungalbin Hill. The southernmost records occur on Great Eastern Highway, 45 km east of Southern Cross and within Boorabbin National Park, spanning 115 km north at its most northern extent. These records are known from the Avon Wheatbelt, and Coolgardie IBRA regions, within the Merredin, and Southern Cross subregions.</p> <p>This taxon has been recorded in Permit Areas MP_60, MP_61 and MP_62 approximating 992 individuals accepted to be impacted under CPS6952/1 (Appendix 2). 58 individuals have been recorded outside of the Permit Area and will not be impacted. Additionally, Phoenix (2021b) recorded 184 individuals in the Mt Walton Bypass Lane Survey Area, located immediately south of MP_60. No additional records of the species have been identified in the vicinity during biological surveys commissioned by Main Roads.</p> <p>Accurate plant numbers are not evident within the restricted WA Herbarium database however frequency observations often note 'common'. Phoenix Environmental (2021b) concluded that this species '<i>... likely occurs outside the study area in greater numbers than [those] recorded.</i>'</p> <p>This taxon is not cryptic and was surveyed by GHD (2016a, 2016b, 2016c) in the appropriate flowering period. <i>Acacia cylindrica</i> was submitted to the WA Herbarium for confirmation of identification and if it was to occur elsewhere in the Permit Area it would likely have been identified during the various surveys.</p> <p>Given this taxon's large recorded distribution, an abundance of suitable habitat in the locality, and that this species is most likely under recorded given records note this species to be common, the risk of significant impact to this species due to the continued clearing of vegetation within the remaining CPS 6952/1 Permit Area, is considered low.</p>

<sup>1</sup> Duplicate - refers to this taxon being recorded in both WA Herbarium and DBCA databases, documented with the same data

Species	Conservation Status	No. of known records impacted by Project to date	Description, distribution and habitat preferences <sup>1</sup>	Assessment of risk from continued clearing
<i>Acacia desertorum</i> var. <i>nudipes</i>	P3	0	Dense or open shrub or tree (rarely), 0.6-2 m high, phyllodes 16-nerved. Fl. yellow, Aug to Oct. Yellow sand, lateritic gravel. Sandplains, flats.	<p>Possible: MP_52, MP_59, MP_60, MP_61, MP_62, MP_63, MP_64 Recorded: MP_58 (2016, 2021, 2025)</p> <p>Twenty-five populations are known to occur in the restricted WA Herbarium database and 10 populations from the restricted DBCA database (5 duplicates), ranging almost 95 km from Southern Cross to Boorabbin National Park. The records occur within a 30 km north to south corridor along Great Eastern Highway. All records are known from the Coolgardie IBRA region, and Southern Cross subregion.</p> <p>GHD (2016b) recorded this taxon in MP_58, identifying approximately 108 individuals along the southern boundary that were accepted to be impacted under CPS6952/1 (Appendix 26.1.5). A further 156 individuals occur outside the Permit Area (GHD 2016b) and will not be impacted. Botanica confirmed these records in 2021 (Botanica 2021) (Appendix 2). This taxon is not cryptic and was surveyed in the appropriate flowering period by GHD (2016a, 2016b, 2016c).</p> <p>Approximately 3,330 records of this taxon were identified within the MRL Parker Range Haul Road survey area (Phoenix 2021a), but not within MP_51. Most of these records occur in four locations along Emu Fence Road with the abundance of records occurring at the junction of Great Eastern Highway and Emu Fence Road approximately 4.3 km northwest of MP_50 (Appendix 2). A total of 13, 967 records were estimated by Phoenix to occur locally and regionally (Phoenix 2021a). In the same vicinity GHD (2017) identified 650 individuals within the Great Eastern Highway road reserve approximately 5 km south of MP_52 in fire impacted vegetation. Botanica (2021) identified a further 242 plants in the same vicinity (Appendix 2).</p> <p>In 2025, Main Roads commissioned Phoenix to conduct a targeted flora survey for this taxon over an area that encompassed MP_58 and the southern boundary of MP_59, identifying an additional 4,771 plants (Appendix 2). Phoenix (2025) surmised that the distribution and abundance of this taxon most likely extends well beyond the targeted survey area and into conservation estates and nature reserves, and that records for this taxon are most likely greater than those recorded as the taxon seems to be a disturbance species, opportunistically establishing itself in roadside verges and disturbed areas. Considering test pitting or partial clearing has occurred in all Permit Areas listed above, it is possible that this taxon may be present in the pit areas.</p> <p>Given the significantly large numbers anticipated to occur in the locality, in excess of 15,000 individuals in addition to those recorded, and the abundance of suitable habitat, the risk of significant impact to this species due to the continued clearing of vegetation within the remaining CPS 6952/1 Permit Area, is considered low.</p>

Species	Conservation Status	No. of known records impacted by Project to date	Description, distribution and habitat preferences <sup>1</sup>	Assessment of risk from continued clearing
<i>Acacia filifolia</i>	P3	0	Wispy, spindly, single-stemmed shrub or tree, 1.2-3 m high. Fl. yellow, May to Sep. Yellow sand, gravelly lateritic sand. Sandplains.	<p>Possible: MP_50, MP_52,</p> <p>There are 48 records within the restricted WA Herbarium and 11 records within the restricted DBCA database.</p> <p>The taxon ranges from near Coorow in the west to 15 km east of Southern Cross (approximately 350 km). Records occur along the alignment of Great Eastern Highway inland, then occur further north as far as Coorow (220 km) on the Swan Coastal Plain.</p> <p>Two restricted database records occur within 40 km of the western Pit Area. These records (recorded 2002) occur within Great Eastern Highway road reserve approximately 3.7 km north northwest of MP_50 and 5.2 km south of MP_52. (Appendix 2). The second record was documented in 1949 and occurs in a cleared agricultural paddock 31 km west of MP_50.</p> <p>As seen in Appendix 2, Figure 6.2.6, in the same locality as the two restricted database records, GHD recorded 482 individuals along the Great Eastern Highway road reserve in 2017. Botanica recorded a single individual in 2021 at this same location. These records occur in the Joseph Land System and in VA1148. No additional records of the species have been identified in the vicinity during biological surveys commissioned by Main Roads WA, or by other proponents listed within Table 66. The taxon is not cryptic and the GHD surveys (2016a, 2016b, 2016c) were conducted during the appropriate flowering period.</p> <p>While it is possible some suitable habitat may occur in MP_50 and MP_52, the land system and vegetation association in which the taxon occurs, VA1148 is widespread and well represented locally and within the broader areas, indicating suitable habitat for this species is available in the wider area.</p> <p>As the taxon is easily identifiable and was surveyed at the appropriate time, if the species were present, the taxon would most likely have been identified.</p> <p>The risk of significant impact to this species due to the continued clearing of vegetation within the remaining CPS 6952/1 Permit Area, is considered low.</p>

Species	Conservation Status	No. of known records impacted by Project to date	Description, distribution and habitat preferences <sup>1</sup>	Assessment of risk from continued clearing
<p><i>Balaustion grandibracteatum</i> subsp. <i>grandibracteatum</i></p> <p>Synonymous with <i>Baeckea grandibracteata</i> subsp. <i>Parker Range</i> (K. Newbey 9270)</p> <p>Formerly known as <i>Baeckea grandibracteata</i> E.Pritz.</p>	P3	0	<p>Shrub that grows up to 0.2 m high, and 0.35 m wide. Flowers recorded from September to December and mature fruits in early December.</p> <p>Often occurs on yellow sand. The dominant vegetation often includes <i>Allocasuarina</i> species such as <i>A. spinosissima</i> and/or <i>Grevillea</i>, <i>Callitris</i> and mallee species (Rye, 2022).</p>	<p>Possible: MP_50, MP_52, MP_57</p> <p>There are 35 records within the restricted WA Herbarium and 1 record of this taxon within the DBCA databases.</p> <p>The taxon is restricted to the Avon Wheatbelt and Coolgardie IBRA Regions and Merredin, and Southern Cross sub regions. This taxon has been recorded west of Southern Cross to Yellowdine and south to near Mt Hampton and the Parker Range area. The collection of this taxon identifies a distribution 90 km north to south and just over 40 km east to west.</p> <p>Nineteen records occur within 40 km of MP_50 with most of these records occurring west of Emu Fence Road. The closest record occurs 4.05 km west of MP_50 (Appendix 2). The restricted records identify that the taxon coincides with various land systems and vegetation associations, however, it is mostly associated with the Joseph Land System (DPIRD-027), and pre-European vegetation association VA1148 (DPIRD-006).</p> <p>The taxon was located (identified as <i>Baeckea grandibracteata</i> subsp. <i>Parker Range</i> (K.Newbey 9270)) in the nearby survey of the Parker Range Haul Road (Phoenix 2021a) and was described as occurring within <i>Allocasuarina</i> high shrubland on yellow sand over laterite. This survey did not record any individuals in MP_51. Phoenix (2021a) specified that additional populations were likely to occur in the local region and within yellow sandplain vegetation and that the taxon may be considered cryptic.</p> <p>GHD conducted the 2016a, 2016b, and 2016c surveys during the taxon's flowering period. No additional records of the species have been identified during biological surveys that occur within the vicinity commissioned by Main Roads WA.</p> <p>Both land system and vegetation association is widespread and well represented locally and within the broader areas, indicating suitable habitat for this species is available in the wider area.</p> <p>The risk of impact to this species due to the continued clearing of vegetation within the CPS 6952/1 Permit Area, is considered low.</p>

Species	Conservation Status	No. of known records impacted by Project to date	Description, distribution and habitat preferences <sup>1</sup>	Assessment of risk from continued clearing
<i>Banksia lullfitzii</i>	P3	0	Lignotuberous shrub, 0.8-2 m high. Fl. yellow-orange/orange-brown, Mar to May. Yellow sand. Sandplains.	<p>Possible: MP_59, Recorded: MP_58 (2016, 2021)</p> <p>There are 25 records of this taxon within the restricted WA Herbarium and 17 records within the restricted DBCA database.</p> <p>The taxon occurs in the Coolgardie and Mallee IBRA Regions and the Southern Cross and Western Mallee subregions. Its occurrence extends in a linear alignment north to south (180 km) from Mt Manning Range Conservation Park to the No. 1 Rabbit Proof Fence, north of Ravensthorpe-Esperance Road.</p> <p>Seventeen WA Herbarium and 10 DBCA records (1 duplicate<sup>1</sup>) occur within 40 km of MP_58 and MP_59 (Appendix 2).</p> <p>In 2016, GHD recorded 11 plants along the Great Eastern Highway alignment, with three individuals accepted to be impacted under CPS6952/1 (Plan 6952/1h, 6.1.5). A further eight individuals were recorded outside of the Permit Area and will not be impacted (Appendix 2).</p> <p>Since the GHD (2016) surveys, Botanica (2021) recorded one individual east of Emu Fence Road (Appendix 2, Figure 6.2.8), two individuals within MP_58, and an additional 12 individuals recorded outside the Permit Area (Appendix 2).</p> <p>Phoenix conducted a targeted flora survey in 2025, incidentally identifying one <i>Banksia lullfitzii</i> previously recorded by GHD (2016) 0.08 km south of MP_58, and one new population located 0.1 km east of MP_59 (Appendix 2). The Phoenix targeted survey encompassed all of MP_58 and the southern portion of MP_59. No additional records of <i>Banksia lullfitzii</i> were recorded within the Permit Area, specifying that the taxon is not cryptic, readily visible and identifiable.</p> <p>Suitable yellow sand habitat for this species is widespread and is well represented locally and within the broader areas, indicating suitable habitat for this species in the wider area. Considering the GHD survey (2016) identified some records of this species, and that it is not cryptic, it is expected that if the taxon occurred in greater numbers, it would have been identified.</p> <p>Records within the restricted databases do not detail accurate individual plant counts, with many records specifying that the taxon is 'frequent', however in excess of 140 individuals are known to occur (including those recorded during Main Roads surveys). The clearing of an additional two individuals from MP_58 conservatively represents approximately 2 per cent impact to the known local population. The risk of impact to this species due to the continued clearing of vegetation within the remaining CPS 6952/1 Permit Area, is considered low.</p>

Species	Conservation Status	No. of known records impacted by Project to date	Description, distribution and habitat preferences <sup>1</sup>	Assessment of risk from continued clearing
<i>Bossiaea celata</i>	P3	0	Compact, intricately-branched shrub, to 0.8 m high. Fl. yellow-red-orange, Sep to Oct. Deep sand. Open mallee.	<p>Possible: MP_62, MP_63, MP_64, MP_66 Recorded: MP_60 (1968, 2016), MP_61 (2016)</p> <p>There are 17 records of this taxon within the restricted WA Herbarium and 3 records within the restricted DBCA database.</p> <p>The taxon occurs in the Coolgardie IBRA Regions and the Eastern Goldfields and Southern Cross subregions. Its distribution extends approximately 130 km east to west, from almost 30 km south of Coolgardie to Jilbadji Nature Reserve at its western extent.</p> <p>Thirteen WA Herbarium records and 3 DBCA records (3 duplicates) occur within 40 km of the Permit Area. The closest of these restricted database records occurs on the boundary of MP_60 (Appendix 2, Figure 6.2.10).</p> <p>In proximity to records documented within the restricted WA Herbarium and DBCA databases, the taxon was recorded by GHD (2016) in MP_60 and MP_61 (Appendix 2). Up to 100 individuals were recorded within MP_60 and 64. 2 individuals were recorded within the northwestern corner of MP_61 and were accepted to be impacted under CPS6952/1 (Plan 6952/1i, Appendix 1, 6.1.7). A further 110 individuals were recorded outside of MP_60 and MP_61, in adjacent vegetation, and will not be impacted (Appendix 2). The GHD (2016) survey was conducted during the optimal flowering period for this species. The survey effort was thorough, and several specimens of this species were submitted to WA Herbarium for identification and/or verification (Accession 6563).</p> <p>Since the GHD (2016) surveys, Botanica (2021) recorded one population of <i>Bossiaea celata</i> near previously recorded populations (recorded 1998 and 1999) comprising 20 individuals at SLK 462 in the road reserve, approximately 600 m east of MP_61 (Botanica 2023).</p> <p>Many records within the WA Herbarium database contain comments such as 'common but localised' and three records specify in excess of 1000 individuals in each record. Given the large number of individuals of this species per record and that the vegetation association and land system in which it occurs is widespread and well represented locally and within the broader areas, suitable habitat for this species is considered to be available in the adjoining Goldfields Woodlands National Park and wider area.</p> <p>As this species is easily identifiable, the risk of clearing additional records of <i>Bossiaea celata</i> in the remaining vegetation within MP_60 and MP_61 is unlikely. As this taxon occurs in vast numbers and suitable habitat is widely available, the risk of impact to this species due to the continued clearing of vegetation within the remaining CPS 6952/1 Permit Area, is considered low.</p>

Species	Conservation Status	No. of known records impacted by Project to date	Description, distribution and habitat preferences <sup>1</sup>	Assessment of risk from continued clearing
<i>Cryptandra crispula</i>	P3	0	<p>Non-spinescent shrub, 0.25-0.9 m high. Brown sandy clay, yellow loamy sand, red soil, pebbles. Dune ridges, hills, near salt lakes.</p> <p>Flowers July to September (Rye 2007).</p>	<p>Possible: MP_52, MP_60 Recorded: MP_61 (2016)</p> <p>There are 15 records of this taxon within the restricted WA Herbarium database.</p> <p>The taxon occurs in the Coolgardie IBRA Region and the Eastern Goldfields and Southern Cross subregions. Its distribution lies between Coolgardie area to east of Norseman (Rye 2007), approximately 215 km long (north to south). Its most western record occurs 10 km northeast of Marvel Loch.</p> <p>The closest records to the Permit Area were recorded in 2013 over 10 km south of MP_50 and almost 20 km south southeast of MP 52, on deep yellow sandy plains in association with <i>Allocasuarina</i> shrublands (2 records). These records occur at its most western known extent.</p> <p>Approximately 10 individuals were documented by GHD (2016) in MP_61 (Appendix 2) within VA1148 and the Joseph Land System. Since the GHD (2016) surveys, the taxon has been recorded in the MRL Parker Range Haul Road survey, recording an additional 10 records. None of these records occur within MP_51. These records occur approximately 33 km south of MP_50.</p> <p>WA Herbarium records indicate an array of population densities from one individual to 'common' or 'frequent'. Rye (2007) suggests that the '... species is unlikely to be endangered as it occurs in a poorly known inland area where access is often difficult'. Phoenix (2021a) approximated 100 individuals to occur locally and regionally, specifying that additional populations are likely to exist locally within yellow sandplain vegetation, and that the species is cryptic as it can only be distinguished from common species by microscopic waved/crisped hairs on fruit.</p> <p>Specimens of <i>Cryptandra</i> were provided to the WA Herbarium for identification and/or verification following the GHD (2016) surveys. Therefore, if the taxon occurred in the Permit Area, it most likely would have been identified.</p> <p>No additional records of the species have been identified during biological surveys that occur within the vicinity commissioned by Main Roads, or by other proponents listed within Table 66.</p> <p>Both the Joseph Land System and Vegetation Association 1148 is widespread and well represented locally and within the broader areas, suggesting that suitable habitat for this species is likely to be available in the adjoining Goldfields Woodlands National Park and wider area.</p> <p>CPS 6952/1 condition 11 requires the Permit Holder to ensure that no clearing occurs within 50 m of this taxon, where its written locations have been provided to the Department in the report '<i>Main Roads Western Australia - Great Eastern Highway Material Pits, Southern Cross to Kalgoorlie, SLK 432 – 484 - Biological Assessment - January 2016</i>', unless first approved by the CEO'. This condition was based on 100 per cent of the recorded plants being cleared. Since the granting of CPS 6952/1, additional surveys in the local area have recorded more individuals of this species. Nonetheless, Main Roads will comply with condition 11 by conducting a targeted survey prior to the clearing of native vegetation in MP_60 and MP_61 (Plan 6952/1i, Appendix1, 6.1.8) to ensure no clearing occurs within 50 m of this species unless approved by the CEO.</p> <p>The risk of impact to this species due to the continued clearing of vegetation within the remaining CPS 6952/1 Permit Area following the application of the above management controls, is considered low.</p>

Species	Conservation Status	No. of known records impacted by Project to date	Description, distribution and habitat preferences <sup>1</sup>	Assessment of risk from continued clearing
<i>Cyathostemon verrucosus</i>	P3	0	Low spreading shrub, 0.2-0.4 m high. Leaves densely covered by warts Fl. Sep to Dec. Yellow sand plains, recorded in shrublands (Trudgen and Rye 2014)	<p>Possible: MP_5, MP_59, MP_60, MP_61, MP_63, MP_64, MP_66</p> <p>There are 22 records of this taxon within the restricted WA Herbarium and 5 records in the restricted DBCA databases.</p> <p>The taxon occurs in the Coolgardie IBRA Region and the Eastern Goldfield and Southern Cross subregions. Its distribution ranges 150 km north of Southern Cross over 210 km southeast to the Victoria Rock Road (approximately 40 km north of Hyden-Norseman Road) in the south. Its eastern most occurrence is in Kalgoorlie.</p> <p>Five records (one duplicate) occur within 40 km of MP_58, MP_59, MP_60 and MP_61. All of these records are located between MP_50 and MP_60. One record, documented in 1965, occurs approximately 2 km north of MP_59, and 2.6 km northeast of MP_58, on the Joseph Land System and the threshold of VA1148 and VA214.</p> <p>One DBCA and WA Herbarium record (duplicate, documented 1997) occurs 18.5 km west, one record occurs 6 km (documented 1968) west and another 13 km (documented 1970) southwest of MP_60 and MP_61. All of these records, occur on the Joseph Land System, except one which occurs on the boundary of the Joseph and Lefroy Land System. The restricted records coincide with VA1148 and one record coincides with VA522.</p> <p>The taxon was not identified within the Permit Area. Two additional records at the same location were documented during Phoenix biological surveys for the Parker Range Haul Road (Phoenix 2021a). These records occur approximately 40 km south of Great Eastern Highway near the Parker Range Iron Ore Project. This is the most western documented record. Over 80 individuals are estimated to occur regionally (Phoenix 2021a). No additional records have been identified in biological surveys commissioned by Main Roads.</p> <p>GHD (2016) recorded other <i>Cyathostemon</i> species during the surveys that were conducted during the reported flowering period, without identifying the taxon in the Permit Area.</p> <p>Given this taxon's limited records, the age of the documented occurrence and restricted distribution, it is unlikely to be encountered in the Permit Area. Furthermore, both the Joseph Land System and VA1148 is widespread and well represented locally and within the broader areas, suggesting that suitable habitat for this species is likely to be available in the adjoining Goldfields Woodlands National Park and the wider area. VA522 is equally widespread and well represented locally and within broader areas.</p> <p>The risk to this species due to the continued clearing of vegetation within the CPS 6952/1 Permit Area is considered low.</p>

Species	Conservation Status	No. of known records impacted by Project to date	Description, distribution and habitat preferences <sup>1</sup>	Assessment of risk from continued clearing
<i>Daviesia sarissa</i> subsp. <i>redacta</i>	P2	0	Spreading or sprawling, glaucous shrub, to 0.6 m high. Fl. yellow & red/brown, Sep. Yellow sand. Plains.	<p>Possible: MP_63</p> <p>There are 8 records of this taxon within the restricted WA Herbarium and 3 records in the restricted DBCA databases (3 duplicates).</p> <p>The taxon occurs in the Coolgardie IBRA Region and Southern Cross subregions. Its distribution is restricted to 64 km east of Southern Cross spanning over 29 km east to Boorabbin. Almost all records occur in proximity to Great Eastern Highway, except one, located almost 5 km north.</p> <p>All WA Herbarium and DBCA records occur within 40 km of MP_58, MP_59, MP_60 and MP_61, occurring on the Joseph Land System and primarily coinciding with pre-European vegetation association VA1148. Two additional records occur on VA1413 and VA511.</p> <p>Botanica recorded four populations of <i>Daviesia sarissa</i> subsp. <i>redacta</i> in <i>Allocasuarina campestris</i> vegetation communities in yellow sandplain habitat, totalling 16 individuals in a Main Roads survey along Great Eastern Highway, located within the same known area of distribution (Appendix 2).</p> <p>While suitable habitat may occur in the Permit Area, GHD specified that this species is not cryptic and the surveys were undertaken during the reported flowering period.</p> <p>Given this taxon's limited records, the age of the documented occurrence and restricted distribution, it is unlikely to be encountered in the Permit Area. Furthermore, both the Joseph Land System and VA1148 is widespread and well represented locally and within the broader areas, suggesting that suitable habitat for this species is likely to be available in the adjoining Goldfields Woodlands National Park and the wider area.</p> <p>The risk to this species due to the continued clearing of vegetation within the CPS 6952/1 Permit Area is considered low.</p>

Species	Conservation Status	No. of known records impacted by Project to date	Description, distribution and habitat preferences <sup>1</sup>	Assessment of risk from continued clearing
<i>Gastrolobium semiteres</i>	P3	0	Open, multi-stemmed shrub, to 1.5 m high. Fl. orange/yellow & purple/red, Aug to Oct. Deep yellow sand, yellow to brown sandy clay, gravel, granite. Broad sand dunes, around rocks, undulating plains.	<p>Possible: MP_59, MP_60, MP_61 Recorded: MP_58 (2025)</p> <p>There are 14 documented records of this taxon within the restricted WA Herbarium database and 5 records within the restricted DBCA database.</p> <p>This taxon's known occurrence is restricted to the Coolgardie IBRA region and the Southern Cross subregion. Most records occur alongside Great Eastern Highway between Karalee and Boorabbin, except for 3 records (one duplicate) near Disappointment Rock approximately 120 km south.</p> <p>Eight restricted database records (4 duplicates<sup>1</sup>) occur within 40 km of MP_50, MP_51, MP_52, MP_57, MP_58, MP_59, MP_60, MP_61, and MP_62. The closest record occurs 0.6 km south of MP_58 (Appendix 2, Figure 6.2.13). An additional two records (duplicate<sup>1</sup>) occur 0.6 km east of MP_61 (Appendix 2).</p> <p>This taxon was not recorded within the Permit Area during the GHD (2016) surveys. GHD specified that this species is not cryptic and the surveys were undertaken during the reported flowering period (GHD 2016b).</p> <p>Since 2016, <i>Gastrolobium semiteres</i> has been recorded in several surveys surrounding the Permit Area, including one individual recorded in the eastern section of the GHD Great Eastern Highway Quardanoologin survey (GHD 2016e) located 0.41 km west of MP_58 (Appendix 2).</p> <p>This same area was surveyed by Phoenix in 2021, recording 14 individuals in the Mount Walton Bypass Lane survey area (Phoenix 2021b) (located to the south of MP_58). This same area was surveyed by Botanica in 2021 identifying approximately 300 individuals in the road reserve (Appendix 2).</p> <p>In 2025 Main Roads commissioned Phoenix to conduct a targeted survey encompassing the whole of MP_58 and the southern section of MP_59. During this survey Phoenix (2025) recorded over 355 records, with 21 individuals proposed to be cleared within MP_58. No individuals were located in the survey area of MP_59 (Appendix 2).</p> <p>In local areas surrounding the Permit Area, Phoenix recorded approximately 1250 individuals, with almost all of Botanica's (2021) records confirmed. Many of these records occur on the edge of the Highway, edge of tracks and in areas previously cleared or burnt.</p> <p>Phoenix (2025) reiterates that this taxon is not cryptic and concluded that it is possibly associated with roadworks and human related activities, and likely to be a disturbance opportunist. It was surmised that it is likely the species is under recorded and is more abundant and widespread in areas of mixed shrublands on deep yellow sandplains which is well represented in the local and regional areas (Phoenix 2025).</p> <p>Although surveys did not record this species as present, considering test pitting or partial clearing has occurred in MP_59, MP_60 and MP_61, it is possible that this taxon could occur in the Permit Area. Given the number of individuals recorded and estimated to occur in the local area, and the abundance of suitable habitat surrounding the existing populations and regionally, the risk of significant impact to this species due to the continued clearing of vegetation within the remaining CPS 6952/1 Permit Area is considered low.</p>

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<i>Grammosolen odgersii</i> subsp. <i>odgersii</i>	P2		Red or yellow sand.  White sandy loam (Botanica 2024).	Possible: MP_60,  There are 13 documented records of this taxon within the restricted WA Herbarium database. This taxon's known occurrence is from the Coolgardie and Great Victoria Desert IBRA regions and the Eastern Goldfield, Shield and Southern Cross subregions. Its distribution occurs near Boorabbin at its western extent, approximately 480 km northeast to at its most northern and eastern extent (72 km south of the Anne Beadell Highway).  Five records occur in close proximity to MP_60 (Appendix 2). Two of these records are duplicated. One of these records occurs approximately 14 km west of MP_62. All five records are considered historic, dated 1976 (WA Herbarium duplicate), 1977 (WA Herbarium duplicate) and 1979.  The WA Herbarium records coincide with the Joseph Land System, Johnston Land System, Zanthus system, Ponton Land System, Cundeelee Land System and AY4 atlas system. Records coincide with vegetation associations VA18, VA109, VA467, VA128, and VA522.  Phoenix (2021b) specifies that this species is distinctive and recognisable. The taxon was not identified within the Permit Area and no additional records of the species have been identified during biological surveys that occur within the vicinity commissioned by Main Roads, or by other proponents listed within Table 66.  Given the age of these records in proximity to the Permit Area and abundant suitable habitat available outside of the Permit Area and noting that the taxon is easily identified, it most likely would have been identified if it occurred.  The risk of impact to this species due to the continued clearing of vegetation within the CPS 6952/1 Permit Area is considered low.
<i>Hemigenia</i> sp. Newdegate (E. Bishop 75)	P1	0	Spindly, erect to spreading shrub, 0.2-0.45 m high, to 0.5 m wide. Fl. blue/purple, Sep to Oct. Clay loam. Disturbed sites.	Possible: MP_52  Eleven populations are known to occur in the restricted WA Herbarium database. This taxon is known to be widespread, from the Avon Wheatbelt, Coolgardie, and Mallee IBRA regions and Katanning, Southern Cross, Western Mallee sub regions.  Four records occur within 40 km of the Permit Area, located at the junction of Forrestania - Marvel Loch Road and Glendower Road, over 18 km southwest of MP_51. These records are associated with the survey at the Battler Mine Tenement, accounting for over 120 individuals.  The records occur on red sandy loam over basalt and gabbro which are not reflective of the Permit Area. These records are at the northern extent of its known range.  The taxon was not recorded in the MRL Parker Range Haul Road survey area (Phoenix 2021a) that encompassed MP_51, and no additional records of the species have been identified during biological surveys that occur within the vicinity commissioned by Main Roads.  Given this species' wide distribution, and that its known northern extent occurs south of the Permit area, the risk to this species due to the continued clearing of vegetation within the remaining CPS 6952/1 Permit Area is considered low.

Species	Conservation Status	No. of known records impacted by Project to date	Description, distribution and habitat preferences <sup>1</sup>	Assessment of risk from continued clearing
<i>Lepidosperma lyonsii</i>	P1		Tufted rhizomatous, perennial, herb (sedge), leaves 0.31-0.53 m high, culms and leaves distichous. Pale orange skeletal sandy loam with banded ironstone gravel & rock, well-drained shallow stony loamy with quartz. Gentle hill slopes, upper slopes of large hill.	<p>Possible: MP_60, MP_61, MP_62</p> <p>There are 18 documented records of this taxon within the restricted WA Herbarium database and 4 from the restricted DBCA database.</p> <p>This taxon's known occurrence is from the Coolgardie IBRA regions and the Eastern Goldfields and Southern Cross subregions. Its distribution occurs 77 km north of Jaurdi Station homestead extending in a south easterly direction 240 km near Higginsville. Most records occur north of Great Eastern Highway in the south easterly alignment; however, four outliers occur (three in a cluster) at Erayinia Hill, the eastern most extent, and another near Higginsville, the most southern known extent.</p> <p>Four records (one duplicate) occur within 40 km of MP_60, MP_61 and MP_62. The closest record occurs over 11 km northwest of MP_62 and the same record occurs 14 km northeast of MP_60 and MP_61. The other two records that occur within the 40 km radius measure over 32 km north of the Permit Area.</p> <p>The WA Herbarium and DBCA records coincide with various land systems, including the Joseph and Johnston Land Systems. Records coincide with pre-European vegetation associations VA505, VA481, VA520, VA521, VA522, and VA141.</p> <p>Up to 0.13 ha of MP_61 coincides with one of the above vegetation associations (VA522) and land system. Permit Area MP_62 coincides with VA522 and the Johnston Land System, with up to 41.52 ha remaining to be cleared.</p> <p><i>Lepidosperma lyonsii</i> was recorded in high abundance in the Mt Walton Bypass Lane survey area (Phoenix 2021b), with 3,686 plants recorded from six populations. An additional 128 plants were recorded in the vicinity also surveyed by Phoenix in 2021 for the MRL Haul Road Survey (Phoenix 2021b). The taxon was not identified within the Permit Area, and no additional records of the species have been identified during biological surveys that occur within the vicinity commissioned by Main Roads.</p> <p>Given that the taxon is easily identifiable and it was not located within the GHD surveys, it most likely would have been identified if it occurred. An abundance of suitable habitat is available outside of the Permit Area.</p> <p>The risk to this species due to the continued clearing of vegetation within the CPS 6952/1 Permit Area is considered low.</p>

Species	Conservation Status	No. of known records impacted by Project to date	Description, distribution and habitat preferences <sup>1</sup>	Assessment of risk from continued clearing
<i>Lepidosperma</i> sp. Pigeon Rocks (H. Pringle 30237)	P3		<p>Rocky substrates.</p> <p>Restricted WA Herbarium records indicate orange sand, granitic sandy loam, granite outcrop and yellow sandy clay.</p>	<p>Possible: MP_58, MP_59, MP_60, MP_61, MP_62</p> <p>Eight records are identified within the restricted WA Herbarium ArcGIS database and 12 within the restricted DBCA ArcGIS database.</p> <p>The taxon occurs in the Avon Wheatbelt, Coolgardie, Mallee and Murchison IBRA regions, and the Eastern Murchison, Merredin, Southern Cross and Western Mallee subregions. The restricted data shows that the taxon's distribution is widespread spanning almost 350 km north south, from Dragon Rocks Nature Reserve in the south to Rainy Rocks in the north. The taxon ranges approximately 150 km east to west, from just north of Boorabbin National Park in the east to Moorine Rocks in the west.</p> <p>Three records occur within 40 km of the Permit Area. The closest record occurs over 12 km north of MP_60 and MP_61, growing at the base of a granite rock in granitic loam. The remaining two records occur together in Yellowdine Nature Reserve, located over 22 km northeast from MP_51 and MP_52, and over 28 km northwest from MP_58 and MP_59 (over 22 km from MP_57, and 27 km from MP_50). These occurrences coincide with granite and orange loam sand.</p> <p>The taxon was not identified within the Permit Area and no additional records of the species have been identified during biological surveys that occur within the vicinity commissioned by Main Roads, or by other proponents listed within Table 66.</p>

Species	Conservation Status	No. of known records impacted by Project to date	Description, distribution and habitat preferences <sup>1</sup>	Assessment of risk from continued clearing
<i>Leucopogon</i> sp. Yellowdine (M. Hislop & F. Hort MH 3194)	P2	0	Compact shrub to approximately 0.7 m high. Flat. Moist yellow sand. Burnt >5 years	<p>Possible: MP_58, MP_59, MP_60, MP_61, MP_62</p> <p>Conservation status has been downgraded since the grant of CPS 7018/1, from Priority 1 to Priority 2.</p> <p>There are 11 documented records of this taxon within the restricted WA Herbarium database and 4 records from the restricted DBCA database. The taxon occurs in the Avon Wheatbelt, and Coolgardie IBRA regions, and the Merredin and Southern Cross subregions, ranging 20 km north to south.</p> <p>Six restricted database records (one duplicate<sup>1</sup>) occur within 40 km of MP_50, MP_51, MP_52, MP_57, MP_60, MP_61 and MP_62. One WA Herbarium record, documented in 2011, occurs at least 4.8 km from MP_50, MP_51, MP_52, and MP_57 (Appendix 2).</p> <p>Three records occur approximately 0.6 km west and 4.8 km west of MP_60 and MP_61 (Appendix 2, Figure 6.2.19). An additional two records (one duplicate) have been recorded over 30 km north of MP_61 and 33 km northwest of MP_62. This record occurs at its most eastern extent.</p> <p>The taxon was not recorded in the Permit Area during the 2016 surveys. GHD surveyed in the optimal flowering period and specify that this species is not cryptic (2016a). Since the 2016 surveys, the taxon has been recorded in several surveys within the vicinity of the Permit Area. GHD (2017) identified 45 individuals in the Ghooli alignment on both sides of Great Eastern Highway on yellow sands. These records occur at the same location as that documented within the WA Herbarium database, located 5.2 km south of MP_51, 5.4 km south west of MP_52, and 4.7 km northwest MP_50 (Appendix 2). An additional 30 individuals were recorded by Botanica in the same vicinity in 2021.</p> <p>One plant was recorded in the Phoenix (2021) MRL Parker Range Haul Road survey area, however this occurrence is in the vicinity as an existing WA Herbarium record (documented 2011) and GHD (2017) records. The taxon was not recorded in MP_51 (Phoenix 2021a).</p> <p>Phoenix (2025) incidentally recorded this species during a targeted flora survey, located 0.44 km west of MP_58 (Appendix 2). Phoenix (2025) concluded that the vegetation association (VA04) in which the record was located, is widespread and well represented locally and within the broader areas, indicating suitable habitat for this species occurs in the wider area.</p> <p>While suitable habitat occurs in MP_52, and it is located within the taxon's known distribution the MRL Parker Range Haul Road survey area located 1.3 km west of MP_52, did not identify the taxon in the same habitat characteristics.</p> <p>As this species is easily recognisable, if it occurred in the GHD surveyed areas it would have been identified. This taxon has a large range and occurs in habitat that is widespread and well represented locally and regionally. The risk of impact to this species due to the continued clearing of vegetation within the remaining CPS 6952/1 Permit Area is considered low.</p>

Species	Conservation Status	No. of known records impacted by Project to date	Description, distribution and habitat preferences <sup>1</sup>	Assessment of risk from continued clearing
<p><i>Melichrus</i> sp. Coolgardie (K.R. Newbey 8698)</p>	<p>P1</p>		<p><i>Melichrus</i> sp. <i>Coolgardie</i> is a low, often compact shrub to approximately 0.5 m high and is characterised by pink and white flowers. The species grows in yellow sand or loamy sand (GHD, 2016c).</p>	<p>Possible: MP_62, MP_64, MP_66 Recorded: MP_63 (2016)</p> <p>There are 21 documented records of this taxon within the restricted WA Herbarium database. The taxon is known from the Coolgardie IBRA region and Southern Cross sub region, ranging as far east as 26 km southwest of Coolgardie, ranging 135 km to the west (near the Parker Range, the most western and southern record).</p> <p>This record at its most southern and western extent was recorded in 2022 with a population of more than 50 individuals. It occurs between 34 km south of MP_50 and MP_57 and over 42 km from MP_51 and MP_52.</p> <p>Nineteen WA Herbarium records occur within 40 km of the Permit Area. The closest records occur in proximity to MP_63 (Appendix 2), MP_64, and MP_66 (Appendix 2).</p> <p>GHD (2016c) recorded approximately 855 individuals of <i>Melichrus</i> sp. <i>Coolgardie</i> (K.R. Newbey 8698) (P1) within MP_63 (Appendix 2) and were accepted to be impacted under CPS6952/1 (Plan 6952/1k) (Appendix1). During this same survey, approximately 270 individuals were recorded outside of the Permit Area, with specimens verified by the WA Herbarium.</p> <p>Since this survey in 2016, Botanica have recorded up to 1000 individuals of this species in the same proximity of the Great Eastern Highway alignment, located over 1.7 km west of MP_63 (Appendix 2). No additional records of the species have been identified during biological surveys listed within Table 66.</p> <p>Almost all recorded locations of this species coincide within the Joseph Land System and several pre-European vegetation associations including VA511, VA435, VA522, VA551 (most coinciding with VA435).</p> <p>This species can be difficult to identify due to its flowers that are often hidden, however given the number of individuals recorded outside of the Permit Area, the taxon's large distribution in habitat that is widespread and well represented locally and regionally, the risk of significant impact to this species due to the continued clearing of vegetation within the remaining CPS 6952/1 Permit Area is considered low.</p>

Species	Conservation Status	No. of known records impacted by Project to date	Description, distribution and habitat preferences <sup>1</sup>	Assessment of risk from continued clearing
<i>Notisia intonsa</i>	P3	0	<i>Notisia intonsa</i> is a prostrate to ascending annual, herb, 0.01-0.04 m high. The species prefers red/brown clay, stony saline loam on damplands, floodplains, gentle slopes (Phoenix 2021). It flowers yellow-brown, September to October (Barto Gold Mining, 2023, Biologic, 2022).	<p>Possible: MP_63, MP_64, MP_66</p> <p>There are 29 documented records of this taxon within the restricted WA Herbarium database and 4 in the restricted DBCA database. The taxon is known to be widespread, occurring in the Avon Wheatbelt, Coolgardie, Esperance Plains, Mallee, and Murchison IBRA regions, and the Eastern Goldfield, Eastern Mallee, Eastern Murchison, Fitzgerald, Merredin, Southern Cross, and Western Mallee subregions.</p> <p>Six records occur within 40 km of the Permit Area. The closest occurrence of this taxon occurs over 15 km west southwest of MP_50. The next closest record occurs over 36 km south.</p> <p>Restricted database records identify that the taxon coincides with the Perilya Land System, Greenmount Disturbed land phase, Greenmount 3 subsystem, Helena Land System, Emu Land System, Gumland Land System, Brooking system, Illaara system, Coolgardie Land System and Lefroy system. The records coincide with pre-European vegetation VA540, VA9, VA291, VA468, VA504, VA141, and VA1068 (DPIRD-006).</p> <p>The taxon was identified in two populations within the Great Eastern Highway Boondi and Benari alignment surveys, approximating 200 individuals. One population, &gt;200 individuals, occurs approximately 10 km east of MP_60 and MP_61 and 9 km west of MP_62. One additional individual was recorded 4.2 km west of MP_63 (Appendix 2).</p> <p>The taxon was not recorded in the recent MRL Parker Range Haul Road survey area (Phoenix 2021a) encompassing MP_51 and no additional records of the species have been identified during biological surveys that occur within the vicinity commissioned by Main Roads, or by other proponents listed within Table 66.</p> <p>While all Permit Areas are within the taxon's known distribution, this taxon is highly associated with red clay and red-brown loam/ cracking clay which is not representative of the soils in the Permit Area.</p> <p>Given this species' wide distribution, and that suitable habitat does not occur in the Permit Area, the risk to this species due to the continued clearing of vegetation within the CPS 6952/1 Permit Area is considered low.</p>

Species	Conservation Status	No. of known records impacted by Project to date	Description, distribution and habitat preferences <sup>1</sup>	Assessment of risk from continued clearing
<i>Phebalium drummondii</i>	P3	0	<p>Upright shrub, 0.6-1.5 m high. Fl. yellow, Jul to Sep. Gravelly sandy or clayey soils. Flats, roadsides.</p> <p>Only one record occurs within 40 km of the CPS 7018/1 Permit Areas of Pits 51 and 52.</p>	<p>Possible: MP_52</p> <p>There are 19 documented records of this taxon within the restricted WA Herbarium database. The taxon is known to be widespread, occurring in the Avon Wheatbelt, Coolgardie, and Mallee IBRA regions, and the Katanning, Merredin, Southern Cross, Western Mallee subregions.</p> <p>The restricted database identifies two records that occur within 40 km of the Permit Area. The closest record occurs approximately 1 km south of MP_51 and 2 km southwest of MP_52 (Appendix 2, Figure 6.2.22). The second record occurs at its closest distance 33.6 km southeast of MP_62.</p> <p>This taxon was not recorded by GHD in 2016 within the Permit Area, despite surveys being conducted during the reported flowering period.</p> <p>Over 122 plants were recorded from four locations in the Phoenix (2021a) MRL Parker Range Haul Road survey area, with one large population in low open mallee woodland (vegetation type EpAaaTkHe). This vegetation was determined to be the dominant vegetation type of the Phoenix survey covering almost 21 per cent of the total mapped vegetation. The Phoenix report suggested that additional populations are likely to exist in the local region within yellow sandplain vegetation. Total regional records of this taxon were estimated by Phoenix to be over 550 individuals (Phoenix 2021). The taxon was not recorded in MP_51 by Phoenix (2021a). No additional records of the species have been identified during biological surveys that have occurred within the vicinity commissioned by Main Roads.</p> <p>The restricted WA Herbarium records of this taxon coincide with various land systems and vegetation associations however, the closest record, coincides with the Joseph Land System and VA1148 (DPIRD-027, DPIRD-006). This habitat is synonymous to habitat in MP_50, MP_51, MP_52, MP_58, MP_60 and MP_61 and all occur within the taxon's known distribution, however the taxon is not considered to be cryptic, and it was not recorded in the areas surveyed by GHD. Suitable habitat occurs in MP_52 which was not surveyed by GHD.</p> <p>Given this species' wide distribution, and that the yellow sandplain vegetation (Joseph Land System) on which it occurs, is widespread and well represented locally and regionally, and that the species is most likely more common than the restricted WA Herbarium records suggest, the risk of significant impact to this species due to the continued clearing of vegetation within the CPS 6952/1 Permit Area is considered low.</p>

Species	Conservation Status	No. of known records impacted by Project to date	Description, distribution and habitat preferences <sup>1</sup>	Assessment of risk from continued clearing
<i>Phebalium</i> sp. Yerilgee Sandplain (J. Jackson 223)	P2	0	<p>Aeolian sands. Mid to lower slopes of sandplain (Botanica 2023).</p> <p>Flowers in August</p>	<p>Possible: MP_63, MP_64, MP_66</p> <p>Located in four clusters, there are 12 documented records of this taxon within the restricted WA Herbarium database. The restricted databases identify almost 300 individuals on sloping sandplains and well drained deep aeolian sands. The taxon is known from the Coolgardie IBRA region and Southern Cross subregion, ranging just over 215 km north to south.</p> <p>Four records, in two locations, occur within 40 km of the Permit Area. One location (two records) occurs approximately 5.3 km southwest of MP_63 (Appendix 2). The second location occurs approximately 30 km southeast MP_60 and MP_61, 23 km south MP_62, and between 31 km to 36 km southwest of MP_63, MP_64, and MP_66.</p> <p>Restricted database records identify that this taxon coincides with the Joseph Land System, Doney Land System and Dryandra system, and pre-European vegetation VA435, VA468, VA125, and VA511. This habitat is synonymous with habitat in MP_63, MP_64 and MP_66 comprising the Joseph Land System and pre-European vegetation VA435.</p> <p>The GHD (2016) field surveys were conducted in the appropriate flowering period for this species and can be difficult to identify without molecular or phytochemical data. In saying this, several other <i>Phebalium</i> species were identified in all three GHD reports, therefore if the species was present, it most likely would have been identified within the Permit Area. No additional records of the species have been identified during biological surveys that occur within the vicinity commissioned by Main Roads, or by other proponents listed within Table 6.</p> <p>Given this species' wide distribution and that the yellow sandplain vegetation (Joseph Land System) on which it occurs, is widespread and well represented locally and regionally, the risk to this species due to the continued clearing of vegetation within the CPS 6952/1 Permit Area is considered low.</p>

Species	Conservation Status	No. of known records impacted by Project to date	Description, distribution and habitat preferences <sup>1</sup>	Assessment of risk from continued clearing
<p><i>Rinzia fimbriolata</i></p> <p>Previously known as <i>Baeckea</i> sp. <i>Bullfinch</i> (K.R. Newbey 5838), updated in 2017.</p>	P1	0	Recorded from sandy soil in mallee shrubland or woodland, also with one record from 'clay soil with quartz pieces'. Flowers September (Rye, 2017)	<p>Possible: MP_59 Recorded: MP_58 (2025)</p> <p>There are 4 documented records of this taxon within the restricted WA Herbarium database. The taxon is known to occur in the Avon Wheatbelt and Coolgardie IBRA regions, and the Merredin and Southern Cross subregions. It extends between Bullfinch and Southern Cross.</p> <p>Two records occur within 40 km of the Permit Area. The closest record occurs 21 km west northwest of MP_51. The second record occurs approximately 28 km west northwest of MP_51.</p> <p>The taxon was not recorded in the recent MRL Parker Range Haul Road survey area (Phoenix 2021a) encompassing MP_51, however, a single specimen was incidentally recorded during a targeted flora survey conducted by Phoenix (2025) in MP_58 and is its eastern most known extent (Appendix 2).</p> <p>A search of the taxon's previous names <i>Baeckea</i> sp. <i>Bullfinch</i> (K.R. Newbey 5838) and <i>Rinzia rubra</i> (Rye 2017) identified one additional record of the species during GHD's biological survey of the Ghooli section. The taxon was identified in mixed shrubland on deep yellow sands near the old Yellowdine townsite. No other surveys that occur within the vicinity of the Permit Area commissioned by Main Roads, or by other proponents listed within Table 66 have identified this species.</p> <p>The restricted data indicates that this taxon is found on the Joseph Land System and the very similar Greenmount-Perilya subsystem and Kellerberrin hydroaeolian subsystem (DPIRD-027). Records also coincide with vegetation associations VA1068 and VA519. The Phoenix record (2025) coincides with VA1148 (DPIRD-006), within mixed mallee shrubland (Phoenix 2025).</p> <p>Both yellow sandplain habitat and VA1148 is widespread and well represented locally and within the broader areas. Rye (2017) reports that this taxon flowers seasonally, most likely August and September, therefore surveys were conducted during the optimal flowering period. The known distribution and synonymous habitat suggest that the taxon could occur in some of the Permit Area, however this taxon was not found (including under previous names).</p> <p>Given that suitable habitat is available outside the Permit Area, and that very few records of this taxon occur, the risk of impact to this species due to the continued clearing of vegetation within the CPS 6952/1 Permit Area is considered low.</p>

Species	Conservation Status	No. of known records impacted by Project to date	Description, distribution and habitat preferences <sup>1</sup>	Assessment of risk from continued clearing
<i>Sowerbaea multicaulis</i>	P4		Yellow-brown sand. Fl. October to December possibly extending into January.	<p>Possible: MP_63, MP_64, MP_66</p> <p>There are 22 records of this species within the restricted WA Herbarium and 2 records within the DBCA database. The taxon's distribution is known to occur throughout the Coolgardie, Mallee and Murchison IBRA regions and the Eastern Mallee, Eastern Murchison, Southern Cross and Western Mallee sub-regions, over 330 km long.</p> <p>Two records are located within 40 km of the Permit Area. One record (dated 1999) is located 38 km from the nearest Permit Area boundary and the second record (dated 1891) is located 2 km from MP_62 (Appendix 2). These records coincide with the Doney, Pindar and Joseph Land Systems and VA128, VA435, VA141, VA435 and VA437.</p> <p>The taxon was not recorded in any of the surveys within the vicinity of CPS 6952/1 Permit Area undertaken by Main Roads or other third parties as identified in Table 6. The species typically flowers between October to December and may be difficult to identify outside of this window. Surveys were conducted earlier than this flowering period and therefore it is possible that this species may occur in suitable habitat within MP_63, MP_64 and MP_66, comprising the Joseph Land System and pre-European vegetation VA435. While one record is located in proximity to MP_62, this area does not comprise synonymous land systems or vegetation associations.</p> <p>Given the age of the singular record within 30 km of the Permit Area and no individuals being identified during biological surveys the risk of impact to this species from the continued clearing of the vegetation within the Permit Area is considered low.</p>

Species	Conservation Status	No. of known records impacted by Project to date	Description, distribution and habitat preferences <sup>1</sup>	Assessment of risk from continued clearing
<i>Stylidium choreanthum</i>	P3	0	Creeping perennial, herb, 0.01-0.03 m high, to 0.3 m wide. Fl. pink/white, Sep to Nov. White/yellow or red sand. Plains.	<p>Possible: MP_52, MP_60, MP_61,</p> <p>Thirty records have been identified within the restricted WA Herbarium ArcGIS database and seven within the restricted DBCA ArcGIS database. The taxon's distribution is known to occur throughout the Avon Wheatbelt, Coolgardie IBRA regions and the Eastern Goldfields, Merredin, Southern Cross sub regions. The distribution of the species extends north of the Study Area and east to Kambalda.</p> <p>Sixteen of these records occur within 40 km of MP_50, MP_51, MP_52 and MP_57 with all records located greater than 5 km from the nearest permit boundary. One record is located 1.5 km west of MP_60 (Appendix 2).</p> <p>GHD (2016d) identified a local occurrence comprising approximately 1000 individuals over an area of approximately 0.6 ha. The location of the population identified by GHD was approximately 16 km from the nearest boundary of the Permit Area and as such will not be impacted by continued clearing.</p> <p>Since 2016, one <i>Stylidium choreanthum</i> plant was identified by Botanica (2021b) within the road reserve, located approximately 4.4 km northwest of MP_50 (Appendix 2).</p> <p>This species is highly associated with the Doney Land System, with one record coinciding with the Johnston Wallaroo and Euchre Land Systems. Vegetation associations in which this species has been recorded include VA141, VA128, VA511, VA522, VA40 and VA936. Only MP_62 is considered to comprise suitable habitat for this species, yet the closest known record is 21 km west.</p> <p>No other records have been identified during biological surveys commissioned by Main Roads within the vicinity of CPS 6952/1 Permit Area, including surveys of the Permit Area by GHD (2016a, 2016b, 2016c). GHD specifies that this species can be cryptic, although all surveys were conducted within the known flowering period.</p> <p>Whilst the habitat within the Permit Area may be suitable for this species, none of the known individuals will be impacted and the risk of significant impact to this species from the continued clearing within the remaining CPS 6952/1 Permit area is considered low.</p>

Species	Conservation Status	No. of known records impacted by Project to date	Description, distribution and habitat preferences <sup>1</sup>	Assessment of risk from continued clearing
<i>Verticordia mitodes</i>	P3	0	Spreading shrub, 0.15-0.7 m high. Fl. pink-purple, Oct to Dec or Jan. Yellow sand. Undulating plains.	<p>Possible: MP_52, MP_58, MP_59</p> <p>There are 23 records of this species within the restricted WA Herbarium and 7 records within the DBCA database. The taxon occurs in the Avon Wheatbelt and Coolgardie IBRA regions and the Merredin and Southern Cross sub regions.</p> <p>14 of the records are within 40 km of the Permit Area with the remainder located to the west within the Wheatbelt region.</p> <p>Two records are located within 5 km of MP_50, MP_51, and MP_52 (Appendix 2), four records (2 duplicates<sup>1</sup>) within MP_58 and MP_59 (Appendix 2). This species was not recorded in the GHD (2016) surveys; however, this species is considered cryptic, requiring flowers for positive identification. The GHD surveys were conducted outside of the flowering period.</p> <p>One plant was recorded by Phoenix within the Parker Range Haul Road survey area, adjacent to MP_49 (cleared) and Emu Fence Road. This survey occurred during the known flowering period.</p> <p>Within the Coolgardie IBRA region the WA Herbarium records coincide with the Joseph Land System and the VA141, VA1148, VA1413 and VA1068. MP_50, MP_51, MP_52 and MP_58 exhibit synonymous habitat characteristics. As MP_51 was surveyed in the known flowering period, it is unlikely that this species occurs in this area because it was not recorded.</p> <p>Both yellow sandplain habitat and VA1148 is widespread and well represented locally and within the broader areas. Whilst the habitat within some of the Permit Area may be suitable for this species, none of the known individuals will be impacted and the risk of significant impact to this species from the continued clearing within the remaining CPS 6952/1 Permit Area is considered low.</p>
<i>Verticordia roei</i> subsp. <i>meiogona</i>	P1	0	Corymbose shrub, 0.3-0.6 m high. Fl. cream/pink, Sep to Oct. Yellow sand, sandy loam with gravel. Roadside verges.	<p>Possible: MP_52</p> <p>There are 18 records of this species within the restricted WA Herbarium and 8 records within the DBCA database.</p> <p>The taxon occurs in the Avon Wheatbelt and Coolgardie IBRA regions and the Merredin and Southern Cross sub regions. The species ranges from Southern Cross on the most southern extent, northwest to Dalwallinu.</p> <p>Only one record (dated 2020) is located within 40 km of the Permit Area (5.1 km from MP_50), with no other individuals recorded within the additional biological surveys undertaken by Main Roads. Two plants were recorded by Phoenix for the Parker Range Haul Road survey area (15 km south of MP_50).</p> <p>This subspecies is not cryptic and easily identified. The GHD surveys were conducted in the appropriate flowering period. With the species known to inhabit roadside verges, given that it was not identified during any of the additional biological surveys along Great Eastern Highway it is unlikely that this species would be present within the Permit Area.</p> <p>The risk of significant additional impacts to this species for the continued clearing of the vegetation within the remaining CPS 6952/1 Permit Area is considered low.</p>

Species	Conservation Status	No. of known records impacted by Project to date	Description, distribution and habitat preferences <sup>1</sup>	Assessment of risk from continued clearing
<i>Verticordia stenopetala</i>	P3	0	Shrub, 0.2-0.6(-1.3) m high. Fl. pink/pink-purple-red, Oct to Dec or Jan. Yellow sand, sometimes with gravel. Undulating plains.	<p>Possible: MP_50, MP_52, MP_57</p> <p>There are 36 records of this species within the restricted WA Herbarium and 8 records within the DBCA database.</p> <p>The taxon occurs in the Avon Wheatbelt, Coolgardie and Mallee IBRA regions and the Merredin, Southern Cross and Western Mallee sub regions. It ranges from Walgoolan in the west with the majority of records extending from South Cross south to Forrestania.</p> <p>Twenty records occur within 40 km of MP_57 with the nearest record being 5.7 km to the west (Appendix 2). Twenty-five additional plants were recorded by Botanica (2021b) in one cluster 5.7 km west of MP_57 (Appendix 2). The survey covered 65 km of road reserve from Southern Cross to Quardanoolagin, with no other individuals identified. Phoenix recorded 1,277 individuals from 13 locations within the Parker Range Haul Road survey area for Mineral Resources, with the closest record located approximately 0.6 km south of MP_51. The species was not recorded within the Permit Area. For the majority, records coincide with the Joseph Land System and VA1148, VA1413 and VA1068.</p> <p>The GHD survey was not conducted during the reported flowering period for this species. MP_50, MP_51, and MP_52 exhibit synonymous habitat characteristics as the locations in which restricted records occur. As Phoenix surveyed in the known flowering period, it is unlikely that this species occurs in MP_51.</p> <p>Both suitable sandplain habitat and VA1413 is widespread and well represented locally and within the broader areas, indicating that suitable habitat for this species occurs in the wider area.</p> <p>The risk of significant impact to this species for the continued clearing of the vegetation within the remaining CPS 6952/1 Permit Area is considered low.</p>

1. Information provided by WA Herbarium unless otherwise referenced

## 5 CONCLUSION

Obtaining an extension of timeframe for clearing of native vegetation under clearing permit CPS 6952/1 will enable Main Roads WA to continue delivering key road safety projects for the region, improve road user safety and reducing the potential occurrence of serious or fatal road incidents. This will allow Main Roads to continue operating in an environmentally responsible manner through continued progressive clearing only of areas that are needed, minimising the areas of land devoid of vegetation.

The permit area has been subject to previous disturbance, and the extension of clearing permit CPS 6952/1 avoids the need for Main Roads to clear undisturbed native vegetation in equal or better condition, reducing the environmental footprint required for sourcing road building materials.

As outlined above two additional conservation significant flora species (*Gastrolobium semiteres* - Priority 3, and *Rinzia fimbriolata* – Priority 1) have been identified within the Permit Area since the initial grant of CPS 6952/1. The risk of significant impacts on these species and others is considered low. This is consistent with the decision report for CPS 6952/1 which identified the potential occurrence of six of the twenty-five species assessed in this report. The decision report noted that impacts on five of the six conservation significant species would unlikely be significant.

To reduce the potential for significant impact on *Cryptandra crispula*, as noted in the Decision Report associated with CPS 6952/1, Main Roads will undertake targeted surveys for this species within MP\_60 and MP\_61 and avoid clearing within 50 m of any individuals recorded. This will remove the potential for significant impact on this species.

Main Roads considers the risk of significant impact to conservation significant populations to be low as a result of the extension of timeframe to the clearing permit based on:

- the homogenous habitat across the landscape in which the Permit Area is located;
- disturbance from previous clearing and fire in a large portion of the permit area reducing the habitat condition;
- demonstration of compliance with permit conditions;
- management controls to be applied to avoid significant impact on conservation significant flora and fauna species; and
- sufficient information available from various surveys undertaken to inform this desktop assessment.

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## 6.1 APPENDIX 1: LIKELIHOOD OF OCCURRENCE – CONSERVATION SIGNIFICANT FLORA

### 6.1.1 MP\_50 Area (Plan 6952/1b)

Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
TPFL, WAHerb	<i>Acacia asepala</i>	Fabaceae	P2	Red-brown sandy loam. Undulating plains, along drainage lines.	August	Shrub	Habitat not present, 4 records within 40 km, most recent in 2012.	Highly Unlikely	Not recorded during MRWA or other proponent surveys in vicinity of MP_50 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Acacia concolorans</i>	Fabaceae	P2	Red/brown loam, clay. Low lateritic hills, flats.	July to August	Shrub	Habitat may be present, 15 records within 40 km, most recent in 2015.	Possible	Not recorded during MRWA or other proponent surveys in vicinity of MP_50 Permit Area. Not a cryptic species.	Unlikely
TPFL, WAHerb	<i>Acacia crenulata</i>	Fabaceae	P3	Clay, sandy clay, yellow sand. Rocky rises, granite outcrops, breakaways.	Unknown	Shrub	Habitat unlikely to be present, 2 records within 40 km, most recent in 2003.	Highly Unlikely	Not recorded during MRWA or other proponent surveys in vicinity of MP_50 Permit Area. Not a cryptic species.	Highly Unlikely
TPFL, WAHerb	<i>Acacia cylindrica</i>	Fabaceae	P3	Yellow/brown sand, gravelly soils. Undulating plains, flats.	August to October	Shrub	Habitat may be present, 8 records within 40 km, most recent in 2008.	Possible	Not recorded during MRWA or other proponent surveys in vicinity of MP_50 Permit Area. Not a cryptic species.	Unlikely
TPFL, WAHerb	<i>Acacia desertorum</i> var. <i>nudipes</i>	Fabaceae	P3	Yellow sand, lateritic gravel. Sandplains, flats.	August to October	Shrub	Habitat may be present, 26 records within 40 km, most recent in 2018.	Possible	Not recorded in Permit area by GHD (2016a). Not a cryptic species and survey of Permit Area (GHD 2016a) conducted during reported flowering period.	Unlikely
TPFL, WAHerb	<i>Acacia filifolia</i>	Fabaceae	P3	Yellow sand, gravelly lateritic sand. Sandplains.	May to September	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2002.	Possible	Not recorded in Permit area by GHD (2016a). Not recorded during MRWA and other proponent surveys in vicinity. Not a cryptic species but can be confused with close relatives (GHD, 2016a). Surveys conducted during reported flowering period.	Possible
WAHerb	<i>Acacia formidabilis</i>	Fabaceae	P3	Yellow or red/brown sand. Undulating plains, hillsides.	August to September	Shrub	Habitat may be present, 3 records within 40 km, most recent in 1985.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
TPFL	<i>Acacia merrickiae</i>	Fabaceae	P4	Sandy loam, clay, yellow sand.	April to June	Shrub	Habitat may be present, 1 records within 40 km, most recent in 2006.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
WAHerb	<i>Acacia</i> sp. Moorine Rock (B.R. Maslin 4474)	Fabaceae	P1	Dark brown hard clay-loam, granite. Clay flats at base of rock outcrops.	October to December	Shrub	Habitat unlikely to be present, 2 records within 40 km, most recent in 1990.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Balaustion grandibracteatum</i> subsp. <i>grandibracteatum</i>	Myrtaceae	P3	Unknown	Unknown	Shrub	Habitat may be present, 26 records within 40 km, most recent in 2013.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.  Species may be considered cryptic	Possible
WAHerb	<i>Balaustion grandibracteatum</i> subsp. <i>junctura</i>	Myrtaceae	P2	Sandy soils, sometimes with lateritic gravel or granite cobbles,	October to November	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2013.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
TPFL, WAHerb	<i>Bossiaea</i> sp. Jackson Range (G. Cockerton & S. McNee LCS 13614)	Fabaceae	P3	Breakaway, laterised ironstone, red-brown clay loam soils. Flats and lower slopes at base of weathered granite breakaways. Dry white-grey sandy loam. Mid slope of low BIF hills, growing on duricrust	March to September	Shrub	Habitat not present, 8 records within 40 km, most recent in 2011.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Highly Unlikely
WAHerb	<i>Chamelaucium</i> sp. Parker Range (B.H. Smith 1255)	Myrtaceae	P1	Granite breakaway, drainage lines in sandy loam.	Unknown	Shrub	Habitat not present, 9 records within 40 km, most recent in 2022.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Highly Unlikely
WAHerb	<i>Cryptandra crispula</i>	Rhamnaceae	P3	Brown sandy clay, yellow loamy sand, red soil, pebbles. Dune ridges, hills, near salt lakes.	July to September	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2013.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
TPFL, WAHerb	<i>Daviesia microcarpa</i>	Fabaceae	T	Weathered gravel.	September	Shrub	Habitat may be present, 8 records within 40 km, most recent in 2009.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
WAHerb	<i>Eremophila caerulea</i> subsp. <i>merrallii</i>	Scrophulariaceae	P4	Sand, clay or loam. Undulating plains.	October to December	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1998.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
TPFL, WAHerb	<i>Eremophila inflata</i>	Scrophulariaceae	P4	Gravelly loam on flats and disturbed sites.	Unknown	Shrub	Habitat may be present, 6 records within 40 km, most recent in 1996.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
WAHerb	<i>Eucalyptus calycogona</i> subsp. <i>miraculum</i>	Myrtaceae	P1	Pale orange to red clay-loams to thin stony loams with ironstone gravel.	September to October	Mallee	Habitat may be present, 8 records within 40 km, most recent in 2012.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
TPFL, WAHerb	<i>Eucalyptus crucis</i> subsp. <i>crucis</i>	Myrtaceae	T	Sand, loam. Granite outcrops.	October to December	Mallee	Habitat not present, 2 records within 40 km, most recent in 1986.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Eucalyptus exigua</i>	Myrtaceae	P3	Sandy loam, white sand. Sandplains.	March	Mallee	Habitat may be present, 3 records within 40 km, most recent in 2001.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
WAHerb	<i>Eucalyptus polita</i> subsp. <i>polita</i>	Myrtaceae	P3	Brown calcareous loam, often stony	Unknown	Mallet	Habitat may be present, 12 records within 40 km, most recent in 2010	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
WAHerb	<i>Eucalyptus urna</i> subsp. <i>xesta</i>	Myrtaceae	P3	Level to undulating terrain or around salt lakes, in red clay-loam or gravelly clay overlying limestone	Unknown	Mallet	Habitat unlikely to be present, 3 records within 40 km, most recent in 2014.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
TPFL, WAHerb	<i>Eutaxia actinophylla</i>	Fabaceae	P3	Red-brown clay loam, red clay loam over granite, gravel. Small depressions.	September to October	Shrub	Habitat may be present, 1 records within 40 km, most recent in 2019.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
TPFL, WAHerb	<i>Eutaxia lasiocalyx</i>	Fabaceae	P2	Red sandy loam, laterite and quartz gravel. Gentle lower slopes.	November	Shrub	Habitat likely to be present, 2 records within 40 km, most recent in 1994.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
WAHerb	<i>Eutaxia rubricarina</i>	Fabaceae	P3	Gravelly sand, grey to pinkish-white sandy clay, red loam. Flats, slopes, valley floors, road verges.	August to October	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2007.	Possible	Not recorded in Permit area by GHD (2016). Not a cryptic species and survey of Permit Area (GHD 2016) conducted during reported flowering period.	Unlikely
TPFL, WAHerb	<i>Frankenia parvula</i>	Frankeniaceae	T	Edges of salt lakes	October to March	Shrub	Habitat not present, 11 records within 40 km most recent in 2006.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Gastrolobium graniticum</i>	Fabaceae	T	Sand, sandy loam, granite. Margins of rock outcrops, along drainage lines.	August to September	Shrub	Habitat not present, 2 records within 40 km, most recent in 2013.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Highly Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
TPFL, WAHerb	<i>Gastrolobium semiteres</i>	Fabaceae	P3	Deep yellow sand, yellow to brown sandy clay, gravel, granite. Broad sand dunes, around rocks, undulating plains.	August to October	Shrub	Habitat may be present, 2 records within 40 km, most recent in 1959.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
TPFL, WAHerb	<i>Goodenia heatheriana</i>	Goodeniaceae	P1	Red crumbly clay, greenstone gravel and cobbles. Lower slopes, moderately exposed gently undulating plain, roadsides.	September to October	Annual herb	Habitat not present, 10 records within 40 km, most recent in 2016.	Highly Unlikely	Not recorded in Permit area by GHD (2016a). Species can be cryptic, however GHD (2016a) survey occurred within the reported flowering period.	Highly Unlikely
WAHerb	<i>Grevillea lissopleura</i>	Proteaceae	P1	Stony loam on banded ironstone. On ridges.	August	Shrub	Habitat not present, 1 records within 40 km, most recent in 1991.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Grevillea phillipsiana</i>	Proteaceae	P1	Red sand, stony loam. Granite hills.	July to September	Shrub	Habitat unlikely to be present, 2 records within 40 km, most recent in 1994.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
WAHerb	<i>Grevillea prostrata</i>	Proteaceae	P4	White, grey or yellow sand, gravel. Sandplains.	August to January	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1982.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
TPFL, WAHerb	<i>Hakea pendens</i>	Proteaceae	P3	Stony loam. Ironstone ridges.	September	Shrub	Habitat not present, 51 records within 40 km, most recent in 2010.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Highly Unlikely
WAHerb	<i>Hemigenia glaucissima</i>	Lamiaceae	P1	Yellow sands with surface laterite.	October to May	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2020.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
WAHerb	<i>Hemigenia</i> sp. Newdegate (E. Bishop 75)	Lamiaceae	P1	Clay loam. Disturbed sites.	September to October	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2019.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
WAHerb	<i>Hydrocotyle corynophora</i>	Araliaceae	P1	Damp depressions which seasonally dry into areas of red or red-brown cracking clays or clay loam.	September to October	Annual herb	Habitat not present, 11 records within 40 km, most recent in 2016.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Isopogon robustus</i>	Proteaceae	T	Skeletal grey sandy loam, laterite. Ridges.	October	Shrub	Habitat unlikely to be present, 16 records within 40 km, most recent in 2016.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
TPFL, WAHerb	<i>Lepidium genistoides</i>	Brassicaceae	P3	Sandy loam.	September to October	Shrub	Habitat may be present, 3 records within 40 km, most recent in 1987.	Unlikely	Not recorded during MRWA and other proponent surveys in	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
									vicinity of MP_50 Permit Area.	
WAHerb	<i>Lepidosperma</i> sp. Mt Caudan (N. Gibson & M. Lyons 2081)	Cyperaceae	P1	Rocky substrates	Unknown	Sedge	Habitat may be present, 5 records within 40 km, most recent in 2007.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
WAHerb	<i>Lepidosperma</i> sp. Parker Range (N. Gibson & M. Lyons 2094)	Cyperaceae	P1	Rocky substrates, banded ironstone range	Unknown	Sedge	Habitat not present, 1 record within 40 km, most recent in 1994.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Lepidosperma</i> sp. Pigeon Rocks (H. Pringle 30237)	Cyperaceae	P3	Rocky substrates	Unknown	Sedge	Habitat may be present, 2 records within 40 km, most recent in 2010.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
TPFL, WAHerb	<i>Leucopogon</i> sp. Yellowdine (M. Hislop & F. Hort MH 3194)	Ericaceae	P2	Flat. Moist yellow sand. Burnt >5	Unknown	Shrub	Habitat may be present, 1 records within 40 km, most recent in 2011.	Possible	Not recorded in Permit area by GHD (2016). Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area. Species is not cryptic (GHD 2016a) and survey undertaken during the reported flowering period.	Unlikely
TPFL, WAHerb	<i>Leucopogon validus</i>	Ericaceae	P1	Dry, brown, rocky sandy loam, brown-orange sandy clay, gravel, ironstone, sandstone. Low ranges, on and around exposed breakaways.	Unknown	Shrub	Habitat unlikely to be present, 8 records within 40 km, most recent in 2003.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
TPFL, WAHerb	<i>Lissanthe scabra</i>	Ericaceae	P2	Dry, white to orange-brown clay, sandy gravel loams, granite. Breakaways, uplands.	August	Shrub	Habitat not present, 20 records within 40 km, most recent in 2020.	Highly Unlikely	No suitable habitat occurs within the Permit Area (GHD 2016). Not recorded in Permit area by GHD (2016). Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Highly Unlikely
WAHerb	<i>Melichrus</i> sp. Coolgardie (K.R. Newbey 8698)	Ericaceae	P1	Unknown	Unknown	Shrub	Habitat may be present, 1 records within 40 km, most recent in 2022.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
WAHerb	<i>Microcorys</i> sp. Forrestania (V. English 2004)	Lamiaceae	P4	Yellow sandy clay or red-brown clay. Open woodland or cleared areas.	January to April	Shrub	Habitat may be present, 1 records within 40 km, most recent in 2002.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
TPFL, WAHerb	<i>Microseris walteri</i>	Asteraceae	P3	Wide range of habitats	October to January	Annual herb	Habitat may be present, 3 records within 40 km, most recent in 1979.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
WAHerb	<i>Millotia newbeyi</i>	Asteraceae	P1	Red/brown loam, red clay. Undulating plains.	September	Annual herb	Habitat may be present, 5 records within 40 km, most recent in 2009.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
WAHerb	<i>Mirbelia taxifolia</i>	Fabaceae	P1	Red or yellow sand.	September	Shrub	Habitat may be present, 8 records within 40 km, most recent in 1934.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
TPFL, WAHerb	<i>Notisia intonsa</i>	Asteraceae	P3	Red/brown clay, stony saline loam.	September to October	Annual herb	Habitat may be present, 4 records within 40 km, most recent in 2015.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
WAHerb	<i>Phebalium brachycalyx</i>	Rutaceae	P3	Sand, gravelly soils. Lateritic uplands, hills.	August to September	Shrub	Habitat may be present, 1 records within 40 km, most recent in 1966.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
WAHerb	<i>Phebalium drummondii</i>	Rutaceae	P3	Gravelly sandy or clayey soils. Flats, roadsides.	July to September	Shrub	Habitat may be present, 1 records within 40 km, most recent in 2020.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
WAHerb	<i>Philotheca falcata</i>	Rutaceae	T	Mulga shrubland on rocky slopes of red skeletal laterite (Wilson, 1998)	October	Shrub	Habitat not present, 5 records within 40 km, most recent in 1931.	Unlikely	No suitable habitat within the Permit Area (GHD 2016). Not recorded in Permit Area by GHD (2016). Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Highly Unlikely
WAHerb	<i>Phlegmatospermum ermaeum</i>	Brassicaceae	P3	Stony loam.	August to October	Annual herb	Habitat may be present, 1 record within 40 km, most recent in 2015.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
WAHerb	<i>Prostanthera nanophylla</i>	Lamiaceae	P3	Yellow sand over laterite, rocky loam. Sandplains.	August to November	Shrub	Habitat may be present, 2 records within 40 km, most recent in 1967.	Unlikely	Not recorded in Permit Area by GDH (2016). Not recorded during MRWA and other proponent surveys in	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
									vicinity of MP_50 Permit Area.  Species is not cryptic and survey (GHD 2016) was conducted during the reported flowering period.	
WAHerb	<i>Rinzia fimbriolata</i>	Myrtaceae	P1	Sandy soil one record from 'clay soil with quartz pieces'.	September	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2005.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
TPFL, WAHerb	<i>Rinzia medifila</i>	Myrtaceae	P1	Hillsides, often on rocky sites.	August to December	Shrub	Habitat not present, 1 records within 40 km, most recent in 1994.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Highly Unlikely
WAHerb	<i>Rinzia torquata</i>	Myrtaceae	P3	Well-drained gravelly sand, yellow loamy sand, laterite. Sandplains, slightly undulating sites, near creeks, on exposed small rises.	September	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2020.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
TPFL, WAHerb	<i>Rinzia triplex</i>	Myrtaceae	P3	Yellow to orange sandy loam with laterite gravel. Gently undulating sandplains, low ridges, road verges.	June	Shrub	Habitat may be present, 3 records within 40 km, most recent in 2003.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
WAHerb	<i>Stackhousia muricata</i> subsp. Perennial (W.R. Barker 3641)	Celastraceae	P3	In sands or loams often with rocks or gravel.	July to November	Perennial herb	Habitat may be present, 3 records within 40 km, most recent in 1997.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.  Species is not considered cryptic.	Unlikely
TPFL, WAHerb	<i>Stenanthemum bremerense</i>	Rhamnaceae	P4	Orange-brown sandy loam, orange-red gravelly loam, skeletal red loam, laterite, ironstone. Top or sides of outcrops and breakaways.	May to November	Shrub	Habitat not present, 3 records within 40 km, most recent in 2019.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Styidium choreanthum</i>	Styidiaceae	P3	White/yellow or red sand. Plains.	September to November	Perennial herb	Habitat may be present, 16 records within 40 km, most recent in 2011.	Possible	Not recorded in Permit Area by GHD (2016a).  Species can be cryptic although survey (GHD 2016a) conducted during recorded flowering period.	Unlikely
TPFL, WAHerb	<i>Styidium pulviniforme</i>	Styidiaceae	P3	White sand. Winter-wet areas.	September to November	Perennial herb	Habitat not present, 6 records within 40 km, most recent in 2021.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Highly Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
WAHerb	<i>Teucrium diabolicum</i>	Lamiaceae	P3	Hills, road verges.	April	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2015.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
TPFL, WAHerb	<i>Thryptomene interzonensis</i>	Myrtaceae	P1	Yellow clayey sandplain, the edge of a salt pan over exposed granite, and sandplain.	November to January	Shrub	Habitat unlikely to be present, 2 records within 40 km, most recent in 1997.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
TPFL, WAHerb	<i>Verticordia dasystylis</i> subsp. <i>dasystylis</i>	Myrtaceae	P2	Granitic sand or clay loam. Granite rocks.	September to November	Shrub	Habitat not present, 24 records within 40 km, most recent in 2010.	Unlikely	No suitable habitat occurs within the Permit Area (GHD 2016). Not recorded in Permit Area by GDH (2016). Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
WAHerb	<i>Verticordia elizabethiae</i>	Myrtaceae	P1	Flats surrounding salt lakes, with halophytic heath	October to December	Shrub	Habitat not present, 4 records within 40 km, most recent in 2004.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Verticordia mitodes</i>	Myrtaceae	P3	Yellow sand. Undulating plains.	October to January	Shrub	Habitat may be present, 9 records within 40 km, most recent in 2008.	Possible	Not recorded in Permit Area by GDH (2016a). Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
TPFL, WAHerb	<i>Verticordia multiflora</i> subsp. <i>solox</i>	Myrtaceae	P2	Yellow sand over gravel, sand over granite.	October to January	Shrub	Habitat may be present, 8 records within 40 km, most recent in 1987.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely
TPFL, WAHerb	<i>Verticordia pulchella</i>	Myrtaceae	P2	Sandy soils over granite. Massive granite areas.	October to November	Shrub	Habitat not present, 4 records within 40 km, most recent in 1988.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Verticordia roei</i> subsp. <i>meiogona</i>	Myrtaceae	P1	Yellow sand, sandy loam with gravel. Roadside verges.	September to October	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2020.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.  Species is not cryptic and easily identifiable.	Unlikely
TPFL, WAHerb	<i>Verticordia stenopetala</i>	Myrtaceae	P3	Yellow sand, sometimes with gravel. Undulating plains.	October to January	Shrub	Habitat may be present, 20 records within 40 km, most recent in 2020.	Possible	Not recorded in Permit Area by GDH (2016). Survey of Permit Area not within	Possible

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
									recorded flowering period.	
WAHerb	<i>Westringia acifolia</i>	Lamiaceae	P1	Brown clay and sand.	December	Shrub	Habitat may be present, 13 records within 40 km, most recent in 2020.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Unlikely

## 6.1.2 MP 51 Area (Plan 6952/1d)

Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
TPFL, WAHerb	<i>Acacia asepala</i>	Fabaceae	P2	Red-brown sandy loam. Undulating plains, along drainage lines.	August	Shrub	Habitat not present, 3 records within 40 km, most recent in 2008.	Highly Unlikely	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Recorded by Phoenix (2021a) ~7 km north of MP_51. Not recorded during MRWA surveys in vicinity of MP_51 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Acacia concolorans</i>	Fabaceae	P2	Red/brown loam, clay. Low lateritic hills, flats.	July to August	Shrub	Habitat may be present, 4 records within 40 km, most recent in 1983.	Possible	Not recorded within MP_51 Permit Area covered by Phoenix (2021a). Recorded by Phoenix (2021a) ~24 km south of MP_51 Permit Area Not recorded during MRWA surveys in vicinity of MP_51 Permit Area.	Unlikely
TPFL, WAHerb	<i>Acacia crenulata</i>	Fabaceae	P3	Clay, sandy clay, yellow sand. Rocky rises, granite outcrops, breakaways.	Unknown	Shrub	Habitat unlikely to be present, 2 records within 40 km, most recent in 2003.	Highly Unlikely	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Acacia cylindrica</i>	Fabaceae	P3	Yellow/brown sand, gravelly soils. Undulating plains, flats.	August to October	Shrub	Habitat may be present, 8 records within 40 km, most recent in 2008.	Possible	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
TPFL, WAHerb	<i>Acacia desertorum</i> var. <i>nudipes</i>	Fabaceae	P3	Yellow sand, lateritic gravel. Sandplains, flats.	August to October	Shrub	Habitat may be present, 26 records within 40 km, most recent in 2018.	Possible	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Large number of individuals recorded within 10 km of the MP_52 Permit Area during MRWA and other proponents surveys.	Unlikely
TPFL, WAHerb	<i>Acacia filifolia</i>	Fabaceae	P3	Yellow sand, gravelly lateritic sand. Sandplains.	May to September	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2002.	Possible	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Large number of individuals recorded within 10 km of the MP_52 Permit Area during MRWA and other proponents' surveys.	Unlikely
WAHerb	<i>Acacia formidabilis</i>	Fabaceae	P3	Yellow or red/brown sand. Undulating plains, hillsides.	August to September	Shrub	Habitat may be present, 3 records within 40 km, most recent in 1985.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely

Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
WAHerb	<i>Acacia haematites</i>	Fabaceae	P1	Eroded slopes below massive ironstone or lateritized duricrust outcrops of a haematite-rich, Banded Iron Formation range.	August to September	Shrub	Habitat not present, 4 records within 40 km, most recent in 2013.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Highly Unlikely
TPFL	<i>Acacia merrickiae</i>	Fabaceae	P4	Sandy loam, clay, yellow sand.	April to June	Shrub	Habitat may be present, 1 records within 40 km, most recent in 2006.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
WAHerb	<i>Acacia</i> sp. Moorine Rock (B.R. Maslin 4474)	Fabaceae	P1	Dark brown hard clay-loam, granite. Clay flats at base of rock outcrops.	October to December	Shrub	Habitat unlikely to be present, 2 records within 40 km, most recent in 1990.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Balaustion grandibracteatum</i> subsp. <i>grandibracteatum</i>	Myrtaceae	P3	Unknown	Unknown	Shrub	Habitat may be present, 24 records within 40 km, most recent in 2013.	Possible	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). One plant recorded in the Phoenix Survey Area (2021a). Not recorded during MRWA surveys in vicinity of MP_51 Permit Area.	Unlikely
WAHerb	<i>Balaustion grandibracteatum</i> subsp. <i>junctura</i>	Myrtaceae	P2	Sandy soils, sometimes with lateritic gravel or granite cobbles,	October to November	Shrub	Habitat maybe present, 1 record within 40 km, most recent in 2013.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
TPFL	<i>Banksia arborea</i>	Proteaceae	P4	Stony loam. Ironstone hills.	May to October	Shrub	Habitat not present, 1 record within 40 km, most recent in 2009.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Beyeria rostellata</i>	Euphorbiaceae	P1	Red-brown clay, silty loamy sand, ironstone. Upper slopes of hills and along ridges.	Unknown	Shrub	Habitat not present, 4 records within 40 km, most recent in 2012.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Bossiaea</i> sp. Jackson Range (G. Cockerton & S. McNee LCS 13614)	Fabaceae	P3	Breakaway, laterised ironstone, red-brown clay loam soils. Flats and lower slopes at base of weathered granite breakaways. Dry white-grey sandy loam. Mid slope of low BIF hills, growing on duricrust	March to September	Shrub	Habitat not present, 8 records within 40 km, most recent in 2011.	Highly Unlikely	Large population recorded ~19 km north of MP_52 Permit Area (Phopenix 2021a). Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Not recorded during MRWA surveys in vicinity of MP_52 Permit Area.	Highly Unlikely
WAHerb	<i>Cryptandra crispula</i>	Rhamnaceae	P3	Brown sandy clay, yellow loamy sand, red soil, pebbles. Dune ridges, hills, near salt lakes.	July to September	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2013.	Possible	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Recorded by Phoenix (2021a) approximately 40 km south of the MP_51 Permit Area. Not recorded during MRWA surveys in	Unlikely

Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
									vicinity of MP_51 Permit Area.	
TPFL, WAHerb	<i>Daviesia microcarpa</i>	Fabaceae	T	Weathered gravel.	September	Shrub	Habitat may be present, 8 records within 40 km, most recent in 2009.	Possible	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
WAHerb	<i>Eremophila caerulea</i> subsp. <i>merrallii</i>	Scrophulariaceae	P4	Sand, clay or loam. Undulating plains.	October to December	Shrub	Habitat may be present, 1 records within 40 km, most recent in 1998.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
TPFL, WAHerb	<i>Eremophila inflata</i>	Scrophulariaceae	P4	Gravelly loam on flats and disturbed sites.	Unknown	Shrub	Habitat may be present, 6 records within 40 km, most recent in 1996.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
WAHerb	<i>Eucalyptus calycogona</i> subsp. <i>miraculum</i>	Myrtaceae	P1	Pale orange to red clay-loams to thin stony loams with ironstone gravel.	September to October	Mallee	Habitat may be present, 7 records within 40 km, most recent in 2012.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
TPFL, WAHerb	<i>Eucalyptus crucis</i> subsp. <i>crucis</i>	Myrtaceae	T	Sand, loam. Granite outcrops.	October to December	Mallee	Habitat not present, 5 records within 40 km, most recent in 2008.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Eucalyptus exigua</i>	Myrtaceae	P3	Sandy loam, white sand. Sandplains.	March	Mallee	Habitat may be present, 1 record within 40 km, most recent in 2000.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
WAHerb	<i>Eucalyptus polita</i> subsp. <i>polita</i>	Myrtaceae	P3	Brown calcareous loam, often stony	Unknown	Mallet	Habitat may be present, 8 records within 40 km, most recent in 2010.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
WAHerb	<i>Eucalyptus urna</i> subsp. <i>xesta</i>	Myrtaceae	P3	Level to undulating terrain or around salt lakes, in red clay-loam or gravelly clay overlying limestone	Unknown	Mallet	Habitat unlikely to be present, 1 record within 40 km, most recent in 2013.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
TPFL, WAHerb	<i>Eutaxia actinophylla</i>	Fabaceae	P3	Red-brown clay loam, red clay loam over granite, gravel. Small depressions.	September to October	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2019.	Possible	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
WAHerb	<i>Eutaxia rubricarina</i>	Fabaceae	P3	Gravelly sand, grey to pinkish-white sandy clay, red loam. Flats, slopes, valley floors, road verges.	August to October	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2007.	Possible	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
TPFL, WAHerb	<i>Frankenia parvula</i>	Frankeniaceae	T	Edges of salt lakes	October to March	Shrub	Habitat not present, 11 records within 40 km, most recent in 2006.	Highly Unlikely	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Gastrolobium graniticum</i>	Fabaceae	T	Sand, sandy loam, granite. Margins of rock outcrops, along drainage lines.	August to September	Shrub	Habitat not present, 2 records within 40 km, most recent in 2013.	Highly Unlikely	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Gastrolobium semiteres</i>	Fabaceae	P3	Deep yellow sand, yellow to brown sandy clay, gravel, granite. Broad sand dunes, around rocks, undulating plains.	August to October	Shrub	Habitat may be present, 2 records within 40 km, most recent in 1959.	Unlikely	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
WAHerb	<i>Gompholobium cinereum</i>	Fabaceae	P3	Yellow sand, clayey sand, brown loam, sandy gravel, laterite. Well-drained open sites, slopes, plains, roadsides.	Unknown	Shrub	Habitat may be present, 1 records within 40 km, most recent in 1947.	Unlikely	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
TPFL, WAHerb	<i>Goodenia heatheriana</i>	Goodeniaceae	P1	Red crumbly clay, greenstone gravel and cobbles. Lower slopes, moderately exposed gently undulating plain, roadsides.	September to October	Annual herb	Habitat not present, 8 records within 40 km, most recent in 2016.	Highly Unlikely	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Highly Unlikely
WAHerb	<i>Grevillea lissopleura</i>	Proteaceae	P1	Stony loam on banded ironstone. On ridges.	August	Shrub	Habitat not present, 1 records within 40 km, most recent in 1991.	Highly Unlikely	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Hakea pendens</i>	Proteaceae	P3	Stony loam. Ironstone ridges.	September	Shrub	Habitat not present, 26 records within 40 km, most recent in 2010.	Highly Unlikely	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). 64 planted recorded by Phoenix (2021a) approximately 40 km south of MP_51 Permit Area. Not recorded during MRWA surveys in vicinity of MP_51 Permit Area.	Highly Unlikely
WAHerb	<i>Hemigenia</i> sp. Newdegate (E. Bishop 75)	Lamiaceae	P1	Clay loam. Disturbed sites.	September to October	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2019.	Possible	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Not recorded during MRWA and other	Unlikely

Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
									proponent surveys in vicinity of MP_51 Permit Area.	
WAHerb	<i>Hydrocotyle corynophora</i>	Araliaceae	P1	Damp depressions which seasonally dry into areas of red or red-brown cracking clays or clay loam.	September to October	Annual herb	Habitat not present, 11 records within 40 km, most recent in 2016.	Highly Unlikely	Not recorded in MP_51 Permit Area covered by Phoenix (2021a).  Phoenix (2021a) recorded 20 plants outside of the study area, approximately 40 km south of MP_51 Permit area.  Not recorded during MRWA surveys in vicinity of MP_51 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Lepidium genistoides</i>	Brassicaceae	P3	Sandy loam.	September to October	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2013.	Unlikely	Not recorded in MP_51 Permit Area covered by Phoenix (2021a).  Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
TPFL, WAHerb	<i>Lepidosperma ferricola</i>	Cyperaceae	P3	Well-drained stony loam, silty clay, banded ironstone. On rocky ledges, scree slopes, crevices and ravines.	September to October	Sedge	Habitat not present, 2 records within 40 km, most recent in 2013.	Highly Unlikely	Not recorded in MP_51 Permit Area covered by Phoenix (2021a).  356 plantes recorded by Pheonix (2021a) approximately 40 km south of MP_51 Permit Area  Not recorded during MRWA surveys in vicinity of MP_51 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Lepidosperma</i> sp. Pigeon Rocks (H. Pringle 30237)	Cyperaceae	P3	Rocky substrates	Unknown	Sedge	Habitat may be present, 2 records within 40 km, most recent in 2010.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
TPFL, WAHerb	<i>Leucopogon</i> sp. Yellowdine (M. Hislop & F. Hort MH 3194)	Ericaceae	P2	Flat. Moist yellow sand. Burnt >5	Unknown	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2011.	Possible	Not recorded in MP_51 Permit Area covered by Phoenix (2021a).  One plant recorded by Phoenix (2021a) approximately 28 km south of MP_51 Permit Area  Not recorded during MRWA surveys in vicinity of MP_51 Permit Area.	Unlikely
TPFL, WAHerb	<i>Lissanthe scabra</i>	Ericaceae	P2	Dry, white to orange-brown clay, sandy gravel loams, granite. Breakaways, uplands.	August	Shrub	Habitat not present, 20 records within 40 km, most recent in 2020.	Highly Unlikely	Not recorded in MP_51 Permit Area covered by Phoenix (2021a).  702 plants recorded by Phoenix (2021a) from two locations.  Not recorded during MRWA surveys in vicinity of MP_51 Permit Area.	Highly Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
WAHerb	<i>Microcorys</i> sp. Forrestania (V. English 2004)	Lamiaceae	P4	Yellow sandy clay or red-brown clay. Open woodland or cleared areas.	January to April	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2002.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
WAHerb	<i>Milotia newbeyi</i>	Asteraceae	P1	Red/brown loam, red clay. Undulating plains.	September	Annual herb	Habitat may be present, 5 records within 40 km, most recent in 2009.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
WAHerb	<i>Mirbelia taxifolia</i>	Fabaceae	P1	Red or yellow sand.	September	Shrub	Habitat may be present, 8 records within 40 km, most recent in 1934.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
TPFL, WAHerb	<i>Notisia intonsa</i>	Asteraceae	P3	Red/brown clay, stony saline loam.	September to October	Annual herb	Habitat may be present, 2 records within 40 km, most recent in 2015.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
WAHerb	<i>Phebalium brachycalyx</i>	Rutaceae	P3	Sand, gravelly soils. Lateritic uplands, hills.	August to September	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1966.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
WAHerb	<i>Phebalium drummondii</i>	Rutaceae	P3	Gravelly sandy or clayey soils. Flats, roadsides.	July to September	Shrub	Habitat may be present, 1 records within 40 km, most recent in 2020.	Possible	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). 122 plants recorded by Phoenix (2021a) Not recorded during MRWA surveys in vicinity of MP_51 Permit Area.	Unlikely
WAHerb	<i>Philotheca falcata</i>	Rutaceae	T	Unknown	October	Shrub	Habitat not present, 5 records within 40 km, most recent in 1931.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
WAHerb	<i>Phlegmatospermum ermaeum</i>	Brassicaceae	P3	Stony loam.	August to October	Annual herb	Habitat may be present, 1 record within 40 km, most recent in 2015.	Possible	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
WAHerb	<i>Prostanthera nanophylla</i>	Lamiaceae	P3	Yellow sand over laterite, rocky loam. Sandplains.	August to November	Shrub	Habitat may be present, 2 records within 40 km, most recent in 1967.	Unlikely	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area. Species is not cryptic.	Unlikely
WAHerb	<i>Rinzia fimbriolata</i>	Myrtaceae	P1	Sandy soil one record from 'clay soil with quartz pieces'.	September	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2005.	Possible	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely

Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
WAHerb	<i>Rinzia torquata</i>	Myrtaceae	P3	Well-drained gravelly sand, yellow loamy sand, laterite. Sandplains, slightly undulating sites, near creeks, on exposed small rises.	September	Shrub	Habitat may present, 1 record within 40 km, most recent in 2020.	Possible	Not recorded in MP_51 Permit Area covered by Phoenix (2021a).  Eight plants recorded by Phoenix (2021a) approximately 40 km south of MP_51 Permit Area.  Not recorded during MRWA surveys in vicinity of MP_51 Permit Area	Unlikely
TPFL, WAHerb	<i>Rinzia triplex</i>	Myrtaceae	P3	Yellow to orange sandy loam with laterite gravel. Gently undulating sandplains, low ridges, road verges.	June	Shrub	Habitat may be present, 3 records within 40 km, most recent in 2003.	Possible	Not recorded in MP_51 Permit Area covered by Phoenix (2021a).  Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
WAHerb	<i>Stackhousia muricata</i> subsp. Perennial (W.R. Barker 3641)	Celastraceae	P3	In sands or loams often with rocks or gravel.	July to November	Perennial herb	Habitat may be present, 3 records within 40 km, most recent in 1997.	Possible	Not recorded in MP_51 Permit Area covered by Phoenix (2021a).  Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.  Species is not cryptic	Unlikely
TPFL, WAHerb	<i>Stenanthemum bremerense</i>	Rhamnaceae	P4	Orange-brown sandy loam, orange-red gravelly loam, skeletal red loam, laterite, ironstone. Top or sides of outcrops and breakaways.	May to November	Shrub	Habitat not present, 3 records within 40 km, most recent in 2019.	Highly Unlikely	Not recorded in MP_51 Permit Area covered by Phoenix (2021a).  Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Stenanthemum newbeyi</i>	Rhamnaceae	P3	Clayey sand, clay or loam over laterite or ironstone. Hillslopes.	August to January	Shrub	Habitat unlikely to be present, 1 record within 40 km, most recent in 2008.	Unlikely	Not recorded in MP_51 Permit Area covered by Phoenix (2021a).  Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
TPFL, WAHerb	<i>Stylidium choreanthum</i>	Stylidiaceae	P3	White/yellow or red sand. Plains.	September to November	Perennial herb	Habitat may be present, 16 records within 40 km, most recent in 2011.	Possible	Not recorded in MP_51 Permit Area covered by Phoenix (2021a).  Recorded during Botanica (2021a, 2021b) surveys approximately 5 km south of MP_51 Permit Area.	Unlikely
TPFL, WAHerb	<i>Stylidium pulviniforme</i>	Stylidiaceae	P3	White sand. Winter-wet areas.	September to November	Perennial herb	Habitat not present, 6 records within 40 km, most recent in 2021.	Highly Unlikely	Not recorded in MP_51 Permit Area covered by Phoenix (2021a).  Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Highly Unlikely

Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
TPFL, WAHerb	<i>Styphelia saxicola</i>	Ericaceae	P3	Shallow soils on rocky sites with a lateritic, granitic or ironstone geology	April to September	Shrub	Habitat unlikely to be present, 5 records within 40 km, most recent in 2013.	Unlikely	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
TPFL, WAHerb	<i>Tetradlea erubescens</i>	Elaeocarpaceae	T	Red-brown sandy soil, red-brown gravelly loam, banded ironstone. Steep slopes, hilltops, cliffs, ridges.	June to August	Shrub	Habitat not present, 21 records within 40 km, most recent in 2013.	Unlikely	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
WAHerb	<i>Teucrium diabolicum</i>	Lamiaceae	P3	Hills, road verges.	April	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2015.	Possible	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
TPFL, WAHerb	<i>Thryptomene interzonensis</i>	Myrtaceae	P1	Yellow clayey sandplain, the edge of a salt pan over exposed granite, and sandplain.	November to January	Shrub	Habitat unlikely to be present, 2 records within 40 km, most recent in 1997.	Unlikely	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
TPFL, WAHerb	<i>Verticordia dasystylis</i> subsp. <i>dasystylis</i>	Myrtaceae	P2	Granitic sand or clay loam. Granite rocks.	September to November	Shrub	Habitat not present, 24 records within 40 km, most recent in 2010.	Unlikely	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
WAHerb	<i>Verticordia elizabethiae</i>	Myrtaceae	P1	Flats surrounding salt lakes, with halophytic heath	October to December	Shrub	Habitat not present, 4 records within 40 km, most recent in 2004.	Highly Unlikely	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Verticordia mitodes</i>	Myrtaceae	P3	Yellow sand. Undulating plains.	October to January	Shrub	Habitat may be present, 7 records within 40 km, most recent in 1993.	Possible	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). One plant recorded by Phoenix (2021a) approximately 14 km south of MP_51 Permit Area. Not recorded during MRWA surveys in vicinity of MP_51 Permit Area.	Unlikely
TPFL, WAHerb	<i>Verticordia multiflora</i> subsp. <i>solox</i>	Myrtaceae	P2	Yellow sand over gravel, sand over granite.	October to January	Shrub	Habitat may be present, 6 records within 40 km, most recent in 1986.	Unlikely	Not recorded in MP_51 Permit Area covered by Phoenix (2021a). 29 plants recorded by Phoenix (2021a), greater than 20 km	Unlikely

Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
									south of MP_51 Permit Area..  Not recorded by during MRWA surveys in vicinity of MP_51 Permit Area.	
TPFL, WAHerb	<i>Verticordia pulchella</i>	Myrtaceae	P2	Sandy soils over granite. Massive granite areas.	October to November	Shrub	Habitat not present, 2 records within 40 km, most recent in 1988.	Highly Unlikely	Not recorded in MP_51 Permit Area covered by Phoenix (2021a).  Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Verticordia roei</i> subsp. <i>meiogona</i>	Myrtaceae	P1	Yellow sand, sandy loam with gravel. Roadside verges.	September to October	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2020.	Possible	Not recorded in MP_51 Permit Area covered by Phoenix (2021a).  2 plants recorded by Phoenix (2021a), greater than 5 km south of MP_51 Permit Area..  Not recorded by during MRWA surveys in vicinity of MP_51 Permit Area.	Unlikely
TPFL, WAHerb	<i>Verticordia stenopetala</i>	Myrtaceae	P3	Yellow sand, sometimes with gravel. Undulating plains.	October to January	Shrub	Habitat may be present, 18 records within 40 km, most recent in 2020.	Possible	Not recorded in MP_51 Permit Area covered by Phoenix (2021a).  A large number of plants recorded during biological studies by MRWA and other proponents in vicinity of MP_51 Permit Area.	Unlikely

## 6.1.3 MP\_52 Area (Plan 6952/1e)

Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
TPFL, WAHerb	<i>Acacia asepala</i>	Fabaceae	P2	Red-brown sandy loam. Undulating plains, along drainage lines.	August	Shrub	Habitat not present, 3 records within 40 km, most recent in 2008.	Highly Unlikely	Recorded by Phoenix (2021a) ~7 km north of MP_52. Not recorded during MRWA surveys in vicinity of MP_52 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Acacia concolorans</i>	Fabaceae	P2	Red/brown loam, clay. Low lateritic hills, flats.	July to August	Shrub	Habitat may be present, 4 records within 40 km, most recent in 1983.	Possible	Recorded by Phoenix (2021a) ~24 km south of MP_52 Permit Area. Not recorded during MRWA surveys in vicinity of MP_52 Permit Area.	Unlikely
TPFL, WAHerb	<i>Acacia crenulata</i>	Fabaceae	P3	Clay, sandy clay, yellow sand. Rocky rises, granite outcrops, breakaways.	Unknown	Shrub	Habitat unlikely to be present, 2 records within 40 km, most recent in 2003.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Acacia cylindrica</i>	Fabaceae	P3	Yellow/brown sand, gravelly soils. Undulating plains, flats.	August to October	Shrub	Habitat may be present, 8 records within 40 km, most recent in 2008.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
TPFL, WAHerb	<i>Acacia desertorum</i> var. <i>nudipes</i>	Fabaceae	P3	Yellow sand, lateritic gravel. Sandplains, flats.	August to October	Shrub	Habitat may be present, 26 records within 40 km, most recent in 2018.	Possible	Large number of individuals recorded within 10 km of the MP_52 Permit Area during MRWA and other proponent surveys.	Possible
TPFL, WAHerb	<i>Acacia filifolia</i>	Fabaceae	P3	Yellow sand, gravelly lateritic sand. Sandplains.	May to September	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2002.	Possible	Large number of individuals recorded within 10 km of the MP_52 Permit Area during MRWA and other proponent surveys.	Possible
WAHerb	<i>Acacia formidabilis</i>	Fabaceae	P3	Yellow or red/brown sand. Undulating plains, hillsides.	August to September	Shrub	Habitat may be present, 3 records within 40 km, most recent in 1985.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
WAHerb	<i>Acacia haematites</i>	Fabaceae	P1	Eroded slopes below massive ironstone or lateritized duricrust outcrops of a haematite-rich, Banded Iron Formation range.	August to September	Shrub	Habitat not present, 4 records within 40 km, most recent in 2013.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Highly Unlikely
TPFL	<i>Acacia merrickiae</i>	Fabaceae	P4	Sandy loam, clay, yellow sand.	April to June	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2006.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
WAHerb	<i>Acacia</i> sp. Moorine Rock (B.R. Maslin 4474)	Fabaceae	P1	Dark brown hard clay-loam, granite. Clay flats at base of rock outcrops.	October to December	Shrub	Habitat unlikely to be present, 2 records within 40 km, most recent in 1990.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Highly Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
TPFL, WAHerb	<i>Balaustion grandibracteatum</i> subsp. <i>grandibracteatum</i>	Myrtaceae	P3	Unknown	Unknown	Shrub	Habitat may be present, 24 records within 40 km, most recent in 2013.	Possible	One plant recorded in the Phoenix Survey Area (2021a). Not recorded during MRWA surveys in vicinity of MP_52 Permit Area.	Possible
WAHerb	<i>Balaustion grandibracteatum</i> subsp. <i>junctiona</i>	Myrtaceae	P2	Sandy soils, sometimes with lateritic gravel or granite cobbles,	October to November	Shrub	Habitat may be present, 1 records within 40 km, most recent in 2013.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
TPFL	<i>Banksia arborea</i>	Proteaceae	P4	Stony loam. Ironstone hills.	May to October	Shrub	Habitat not present, 1 record within 40 km, most recent in 2009.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Beyeria rostellata</i>	Euphorbiaceae	P1	Red-brown clay, silty loamy sand, ironstone. Upper slopes of hills and along ridges.	Unknown	Shrub	Habitat not present, 5 records within 40 km, most recent in 2012.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Bossiaea</i> sp. Jackson Range (G. Cockerton & S. McNee LCS 13614)	Fabaceae	P3	Breakaway, laterised ironstone, red-brown clay loam soils. Flats and lower slopes at base of weathered granite breakaways. Dry white-grey sandy loam. Mid slope of low BIF hills, growing on duricrust	March to September	Shrub	Habitat not present, 8 records within 40 km, most recent in 2011.	Highly Unlikely	Large population recorded ~19 km north of MP_52 Permit Area (Phopenix 2021a). Not recorded during MRWA surveys in vicinity of MP_52 Permit Area.	Highly Unlikely
WAHerb	<i>Cryptandra crispula</i>	Rhamnaceae	P3	Brown sandy clay, yellow loamy sand, red soil, pebbles. Dune ridges, hills, near salt lakes.	July to September	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2013.	Possible	Recorded by Phoenix (2021a) approximately 40 km south of the MP_52 Permit Area. Not recorded during MRWA surveys in vicinity of MP_52 Permit Area.	Possible
TPFL, WAHerb	<i>Daviesia microcarpa</i>	Fabaceae	T	Weathered gravel.	September	Shrub	Habitat may be present, 8 records within 40 km, most recent in 2009.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
WAHerb	<i>Eremophila caerulea</i> subsp. <i>merrallii</i>	Scrophulariaceae	P4	Sand, clay or loam. Undulating plains.	October to December	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1998.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
TPFL, WAHerb	<i>Eremophila inflata</i>	Scrophulariaceae	P4	Gravelly loam on flats and disturbed sites.	Unknown	Shrub	Habitat may be present, 6 records within 40 km, most recent in 1996.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
WAHerb	<i>Eucalyptus calycogona</i> subsp. <i>miraculum</i>	Myrtaceae	P1	Pale orange to red clay-loams to thin stony loams with ironstone gravel.	September to October	Mallee	Habitat may be present, 7 records within 40 km, most recent in 2012.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
TPFL, WAHerb	<i>Eucalyptus crucis</i> subsp. <i>crucis</i>	Myrtaceae	T	Sand, loam. Granite outcrops.	October to December	Mallee	Habitat not present, 2 records within 40 km, most recent in 1986.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Eucalyptus exigua</i>	Myrtaceae	P3	Sandy loam, white sand. Sandplains.	March	Mallee	Habitat may be present, 1 record within 40 km, most recent in 2000.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
WAHerb	<i>Eucalyptus polita</i> subsp. <i>polita</i>	Myrtaceae	P3	Brown calcareous loam, often stony	Unknown	Mallet	Habitat may be present, 8 records within 40 km, most recent in 2010.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
WAHerb	<i>Eucalyptus urna</i> subsp. <i>xesta</i>	Myrtaceae	P3	Level to undulating terrain or around salt lakes, in red clay-loam or gravelly clay overlying limestone	Unknown	Mallet	Habitat unlikely to be present, 1 record within 40 km, most recent in 2013.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
TPFL, WAHerb	<i>Eutaxia actinophylla</i>	Fabaceae	P3	Red-brown clay loam, red clay loam over granite, gravel. Small depressions.	September to October	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2019.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
WAHerb	<i>Eutaxia rubricarina</i>	Fabaceae	P3	Gravelly sand, grey to pinkish-white sandy clay, red loam. Flats, slopes, valley floors, road verges.	August to October	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2007.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
TPFL, WAHerb	<i>Frankenia parvula</i>	Frankeniaceae	T	Edges of salt lakes	October to March	Shrub	Habitat not present, 11 records within 40 km, most recent in 2006.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Gastrolobium graniticum</i>	Fabaceae	T	Sand, sandy loam, granite. Margins of rock outcrops, along drainage lines.	August to September	Shrub	Habitat not present, 2 records within 40 km, most recent in 2013.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Gastrolobium semiteres</i>	Fabaceae	P3	Deep yellow sand, yellow to brown sandy clay, gravel, granite. Broad sand dunes, around rocks, undulating plains.	August to October	Shrub	Habitat may be present, 2 records within 40 km, most recent in 1959.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
WAHerb	<i>Gompholobium cinereum</i>	Fabaceae	P3	Yellow sand, clayey sand, brown loam, sandy gravel, laterite. Well-drained open sites, slopes, plains, roadsides.	Unknown	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1947.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
TPFL, WAHerb	<i>Goodenia heatheriana</i>	Goodeniaceae	P1	Red crumbly clay, greenstone gravel and cobbles. Lower slopes, moderately exposed gently undulating plain, roadsides.	September to October	Annual herb	Habitat not present, 8 records within 40 km, most recent in 2016.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Highly Unlikely
WAHerb	<i>Grevillea lissopleura</i>	Proteaceae	P1	Stony loam on banded ironstone. On ridges.	August	Shrub	Habitat not present, 1 record within 40 km, most recent in 1991.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Hakea pendens</i>	Proteaceae	P3	Stony loam. Ironstone ridges.	September	Shrub	Habitat not present, 26 records within 40 km, most recent in 2010.	Highly Unlikely	64 planted recorded by Phoenix (2021a) approximately 40 km south of MP_51 Permit Area. Not recorded during MRWA surveys in vicinity of MP_51 Permit Area.	Highly Unlikely
WAHerb	<i>Hemigenia</i> sp. Newdegate (E. Bishop 75)	Lamiaceae	P1	Clay loam. Disturbed sites.	September to October	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2019.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Possible
WAHerb	<i>Hydrocotyle corynophora</i>	Araliaceae	P1	Damp depressions which seasonally dry into areas of red or red-brown cracking clays or clay loam.	September to October	Annual herb	Habitat not present, 11 records within 40 km, most recent in 2016.	Highly Unlikely	Phoenix (2021a) recorded 20 plants outside of the study area, approximately 40 km south of MP_52 Permit area. Not recorded during MRWA surveys in vicinity of MP_52 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Lepidium genistoides</i>	Brassicaceae	P3	Sandy loam.	September to October	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2013.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
TPFL, WAHerb	<i>Lepidosperma ferricola</i>	Cyperaceae	P3	Well-drained stony loam, silty clay, banded ironstone. On rocky ledges, scree slopes, crevices and ravines.	September to October	Sedge	Habitat not present, 2 records within 40 km, most recent in 2013.	Highly Unlikely	356 plantes recorded by Pheonix (2021a) approximately 40 km south of MP_52 Permit Area Not recorded during MRWA surveys in vicinity of MP_52 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Lepidosperma</i> sp. Pigeon Rocks (H. Pringle 30237)	Cyperaceae	P3	Rocky substrates	Unknown	Sedge	Habitat likely to be present, 2 record/s within 40 km, some records within 20 - 40 km, most recent in 2010	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
TPFL, WAHerb	<i>Leucopogon</i> sp. Yellowdine (M. Hislop & F. Hort MH 3194)	Ericaceae	P2	Flat. Moist yellow sand. Burnt >5	Unknown	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2011.	Possible	One plant recorded by Phoenix (2021a) approximately 28 km south of MP_52 Permit Area. Not recorded during MRWA surveys in vicinity of MP_52 Permit Area.	Unlikely
TPFL, WAHerb	<i>Lissanthe scabra</i>	Ericaceae	P2	Dry, white to orange-brown clay, sandy gravel loams, granite. Breakaways, uplands.	August	Shrub	Habitat not present, 18 records within 40 km, most recent in 2020.	Highly Unlikely	702 plants recorded by Phoenix (2021a) from two locations. Not recorded during MRWA surveys in vicinity of MP_52 Permit Area.	Highly Unlikely
WAHerb	<i>Microcorys</i> sp. Forrestania (V. English 2004)	Lamiaceae	P4	Yellow sandy clay or red-brown clay. Open woodland or cleared areas.	January to April	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2002.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_51 Permit Area.	Unlikely
WAHerb	<i>Millotia newbeyi</i>	Asteraceae	P1	Red/brown loam, red clay. Undulating plains.	September	Annual herb	Habitat may be present, 5 records within 40 km, most recent in 2009.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
WAHerb	<i>Mirbelia taxifolia</i>	Fabaceae	P1	Red or yellow sand.	September	Shrub	Habitat may be present, 8 records within 40 km, most recent in 1934.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
TPFL, WAHerb	<i>Notisia intonsa</i>	Asteraceae	P3	Red/brown clay, stony saline loam.	September to October	Annual herb	Habitat may be present, 2 records within 40 km, most recent in 2015.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
WAHerb	<i>Phebalium brachycalyx</i>	Rutaceae	P3	Sand, gravelly soils. Lateritic uplands, hills.	August to September	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1966.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
WAHerb	<i>Phebalium drummondii</i>	Rutaceae	P3	Gravelly sandy or clayey soils. Flats, roadsides.	July to September	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2020.	Possible	122 plants recorded by Phoenix (2021a) Not recorded during MRWA surveys in vicinity of	Possible
WAHerb	<i>Philothea falcata</i>	Rutaceae	T	Unknown	October	Shrub	Habitat not present, 5 records within 40 km, most recent in 1931.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
WAHerb	<i>Phlegmatospermum eremaeum</i>	Brassicaceae	P3	Stony loam.	August to October	Annual herb	Habitat may be present, 1 record within 40 km, most recent in 2015.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely

Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
WAHerb	<i>Prostanthera nanophylla</i>	Lamiaceae	P3	Yellow sand over laterite, rocky loam. Sandplains.	August to November	Shrub	Habitat may be present, 2 records within 40 km, most recent in 1967.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.  Species is not cryptic	Unlikely
WAHerb	<i>Rinzia fimbriolata</i>	Myrtaceae	P1	Sandy soil one record from 'clay soil with quartz pieces'.	September	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2005.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
WAHerb	<i>Rinzia torquata</i>	Myrtaceae	P3	Well-drained gravelly sand, yellow loamy sand, laterite. Sandplains, slightly undulating sites, near creeks, on exposed small rises.	September	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2020.	Possible	Eight plants recorded by Phoenix (2021a) approximately 40 km south of MP_52 Permit Area.  Not recorded during MRWA surveys in vicinity of MP_52 Permit Area	Unlikely
TPFL, WAHerb	<i>Rinzia triplex</i>	Myrtaceae	P3	Yellow to orange sandy loam with laterite gravel. Gently undulating sandplains, low ridges, road verges.	June	Shrub	Habitat may be present, 3 records within 40 km, most recent in 2003.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
WAHerb	<i>Stackhousia muricata</i> subsp. Perennial (W.R. Barker 3641)	Celastraceae	P3	In sands or loams often with rocks or gravel.	July to November	Perennial herb	Habitat may be present, 3 records within 40 km, most recent in 1997.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.  Species is not cryptic.	Unlikely
TPFL, WAHerb	<i>Stenanthemum bremerense</i>	Rhamnaceae	P4	Orange-brown sandy loam, orange-red gravelly loam, skeletal red loam, laterite, ironstone. Top or sides of outcrops and breakaways.	May to November	Shrub	Habitat not present, 3 records within 40 km, most recent in 2019.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Stenanthemum newbeyi</i>	Rhamnaceae	P3	Clayey sand, clay or loam over laterite or ironstone. Hillslopes.	August to January	Shrub	Habitat unlikely to be present, 2 records within 40 km, most recent in 2008.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
TPFL, WAHerb	<i>Stylidium choreanthum</i>	Stylidiaceae	P3	White/yellow or red sand. Plains.	September to November	Perennial herb	Habitat may be present, 16 records within 40 km, most recent in 2011.	Possible	Recorded during Botanica (2021a, 2021b) surveys approximately 5 km south of MP_52 Permit Area.	Possible
TPFL, WAHerb	<i>Stylidium pulviniforme</i>	Stylidiaceae	P3	White sand. Winter-wet areas.	September to November	Perennial herb	Habitat not present, 6 records within 40 km, most recent in 2021.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Highly Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
TPFL, WAHerb	<i>Styphelia saxicola</i>	Ericaceae	P3	Shallow soils on rocky sites with a lateritic, granitic or ironstone geology	April to September	Shrub	Habitat unlikely to be present, 3 records within 40 km, most recent in 2013.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
TPFL, WAHerb	<i>Tetratheca erubescens</i>	Elaeocarpaceae	T	Red-brown sandy soil, red-brown gravelly loam, banded ironstone. Steep slopes, hilltops, cliffs, ridges.	June to August	Shrub	Habitat not present, 22 records within 40 km, most recent in 2013.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
WAHerb	<i>Teucrium diabolicum</i>	Lamiaceae	P3	Hills, road verges.	April	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2015.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
TPFL, WAHerb	<i>Thryptomene interzonensis</i>	Myrtaceae	P1	Yellow clayey sandplain, the edge of a salt pan over exposed granite, and sandplain.	November to January	Shrub	Habitat unlikely to be present, 2 records within 40 km, most recent in 1997.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
TPFL, WAHerb	<i>Verticordia dasystylis</i> subsp. <i>dasystylis</i>	Myrtaceae	P2	Granitic sand or clay loam. Granite rocks.	September to November	Shrub	Habitat not present, 24 records within 40 km, most recent in 2010.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Unlikely
WAHerb	<i>Verticordia elizabethiae</i>	Myrtaceae	P1	Flats surrounding salt lakes, with halophytic heath	October to December	Shrub	Habitat not present, 4 records within 40 km, most recent in 2004.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_52 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Verticordia mitodes</i>	Myrtaceae	P3	Yellow sand. Undulating plains.	October to January	Shrub	Habitat may be present, 7 records within 40 km, most recent in 1993.	Possible	One plant recorded by Phoenix (2021a) approximately 14 km south of MP_52 Permit Area. Not recorded by during MRWA surveys in vicinity of MP_52 Permit Area.	Possible
TPFL, WAHerb	<i>Verticordia multiflora</i> subsp. <i>solox</i>	Myrtaceae	P2	Yellow sand over gravel, sand over granite.	October to January	Shrub	Habitat may be present, 6 records within 40 km, most recent in 1986.	Unlikely	29 plants recorded by Phoenix (2021a), greater than 20 km south of MP_52 Permit Area. Not recorded by during MRWA surveys in vicinity of MP_52 Permit Area.	Unlikely
TPFL, WAHerb	<i>Verticordia roei</i> subsp. <i>meiogona</i>	Myrtaceae	P1	Yellow sand, sandy loam with gravel. Roadside verges.	September to October	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2020.	Possible	2 plants recorded by Phoenix (2021a), greater than 5 km south of MP_52 Permit Area. Not recorded by during MRWA surveys in vicinity of MP_52 Permit Area.	Possible
TPFL, WAHerb	<i>Verticordia stenopetala</i>	Myrtaceae	P3	Yellow sand, sometimes with gravel. Undulating plains.	October to January	Shrub	Habitat may be present, 18 records within 40 km, most recent in 2020.	Possible	A large number of plants recorded during biological studies by MRWA and other proponents in	Possible

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
									vicinity of MP_52 Permit Area.	

## 6.1.4 MP 57 Area (Plan 6952/1g)

Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
TPFL, WAHerb	<i>Acacia asepala</i>	Fabaceae	P2	Red-brown sandy loam. Undulating plains, along drainage lines.	August	Shrub	Habitat not present, 4 records within 40 km, most recent in 2012.	Highly Unlikely	Not recorded during MRWA or other proponent surveys in vicinity of MP_57 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Acacia concolorans</i>	Fabaceae	P2	Red/brown loam, clay. Low lateritic hills, flats.	July to August	Shrub	Habitat may be present, 15 records within 40 km, most recent in 2015.	Possible	Not recorded during MRWA or other proponent surveys in vicinity of MP_57 Permit Area. Not a cryptic species.	Unlikely
TPFL, WAHerb	<i>Acacia crenulata</i>	Fabaceae	P3	Clay, sandy clay, yellow sand. Rocky rises, granite outcrops, breakaways.	Unknown	Shrub	Habitat unlikely to be present, 2 records within 40 km, most recent in 2003.	Highly Unlikely	Not recorded during MRWA or other proponent surveys in vicinity of MP_57 Permit Area. Not a cryptic species.	Highly Unlikely
TPFL, WAHerb	<i>Acacia cylindrica</i>	Fabaceae	P3	Yellow/brown sand, gravelly soils. Undulating plains, flats.	August to October	Shrub	Habitat may be present, 7 records within 40 km, most recent in 2008.	Possible	Not recorded during MRWA or other proponent surveys in vicinity of MP_57 Permit Area. Not a cryptic species.	Unlikely
TPFL, WAHerb	<i>Acacia desertorum</i> var. <i>nudipes</i>	Fabaceae	P3	Yellow sand, lateritic gravel. Sandplains, flats.	August to October	Shrub	Habitat may be present, 29 records within 40 km, most recent in 2018.	Possible	Not recorded in Permit area by GHD (2016a). Not a cryptic species and survey of Permit Area (GHD 2016a) conducted during reported flowering period.	Unlikely
TPFL, WAHerb	<i>Acacia filifolia</i>	Fabaceae	P3	Yellow sand, gravelly lateritic sand. Sandplains.	May to September	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2002.	Possible	Not recorded in Permit area by GHD (2016a). Not recorded during MRWA and other proponent surveys in vicinity. Species is not cryptic and surveys conducted during reported flowering period.	Unlikely
WAHerb	<i>Acacia formidabilis</i>	Fabaceae	P3	Yellow or red/brown sand. Undulating plains, hillsides.	August to September	Shrub	Habitat may be present, 3 records within 40 km, most recent in 1985.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
TPFL	<i>Acacia merrickiae</i>	Fabaceae	P4	Sandy loam, clay, yellow sand.	April to June	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2006.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
TPFL, WAHerb	<i>Balaustion grandibracteatum</i> subsp. <i>grandibracteatum</i>	Myrtaceae	P3	Unknown	Unknown	Shrub	Habitat may be present, 29 records within 40 km, most recent in 2013.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area. Species may be considered cryptic.	Possible
WAHerb	<i>Balaustion grandibracteatum</i> subsp. <i>junctura</i>	Myrtaceae	P2	Sandy soils, sometimes with lateritic gravel or granite cobbles,	October to November	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2013.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
TPFL, WAHerb	<i>Banksia lullfitzii</i>	Proteaceae	P3	Yellow sand. Sandplains.	March to May	Shrub	Habitat may be present, 9 records within 40 km, most recent in 2010.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
TPFL, WAHerb	<i>Bossiaea</i> sp. Jackson Range (G. Cockerton & S. McNee LCS 13614)	Fabaceae	P3	Breakaway, laterised ironstone, red-brown clay loam soils. Flats and lower slopes at base of weathered granite breakaways. Dry white-grey sandy loam. Mid slope of low BIF hills, growing on duricrust	March to September	Shrub	Habitat may be present, 8 records within 40 km, most recent in 2011.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
WAHerb	<i>Chamelaucium</i> sp. Parker Range (B.H. Smith 1255)	Myrtaceae	P1	Granite breakaway, drainage lines in sandy loam.	Unknown	Shrub	Habitat not present, 9 records within 40 km, most recent in 2022.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Highly Unlikely
WAHerb	<i>Cryptandra crispula</i>	Rhamnaceae	P3	Brown sandy clay, yellow loamy sand, red soil, pebbles. Dune ridges, hills, near salt lakes.	July to September	Shrub	Habitat may be present, 2 record within 40 km, most recent in 2013.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
TPFL, WAHerb	<i>Cryptandra polyclada</i> subsp. <i>aequabilis</i>	Rhamnaceae	P1	Sand.	October	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2010.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
TPFL, WAHerb	<i>Daviesia microcarpa</i>	Fabaceae	T	Weathered gravel.	September	Shrub	Habitat may be present, 8 records within 40 km, most recent in 2009.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
TPFL, WAHerb	<i>Daviesia sarissa</i> subsp. <i>redacta</i>	Fabaceae	P2	Yellow sand. Plains.	September	Shrub	Habitat may be present, 2 records within 40 km, most recent in 1982.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
WAHerb	<i>Eremophila caerulea</i> subsp. <i>merrallii</i>	Scrophulariaceae	P4	Sand, clay or loam. Undulating plains.	October to December	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1998.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
TPFL, WAHerb	<i>Eremophila inflata</i>	Scrophulariaceae	P4	Gravelly loam on flats and disturbed sites.	Unknown	Shrub	Habitat may be present, 6 records within 40 km, most recent in 1996.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
WAHerb	<i>Eucalyptus calycogona</i> subsp. <i>miraculum</i>	Myrtaceae	P1	Pale orange to red clay-loams to thin stony loams with ironstone gravel.	September to October	Mallee	Habitat may be present, 8 records within 40 km, most recent in 2012.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
TPFL, WAHerb	<i>Eucalyptus crucis</i> subsp. <i>crucis</i>	Myrtaceae	T	Sand, loam. Granite outcrops.	October to December	Mallee	Habitat not present, 1 record within 40 km, most recent in 1922.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
TPFL, WAHerb	<i>Eucalyptus exigua</i>	Myrtaceae	P3	Sandy loam, white sand. Sandplains.	March	Mallee	Habitat may be present, 1 record within 40 km, most recent in 2000.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
WAHerb	<i>Eucalyptus polita</i> subsp. <i>polita</i>	Myrtaceae	P3	Brown calcareous loam, often stony	Unknown	Mallet	Habitat may be present, 12 records within 40 km, most recent in 2010.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
WAHerb	<i>Eucalyptus urna</i> subsp. <i>xesta</i>	Myrtaceae	P3	Level to undulating terrain or around salt lakes, in red clay-loam or gravelly clay overlying limestone	Unknown	Mallet	Habitat unlikely to be present, 4 records within 40 km, most recent in 2019.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Eutaxia actinophylla</i>	Fabaceae	P3	Red-brown clay loam, red clay loam over granite, gravel. Small depressions.	September to October	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2019.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
TPFL, WAHerb	<i>Eutaxia lasiocalyx</i>	Fabaceae	P2	Red sandy loam, laterite and quartz gravel. Gentle lower slopes.	November	Shrub	Habitat may be present, 2 records within 40 km, most recent in 1994.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
WAHerb	<i>Eutaxia rubricarina</i>	Fabaceae	P3	Gravelly sand, grey to pinkish-white sandy clay, red loam. Flats, slopes, valley floors, road verges.	August to October	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2007.	Possible	Not recorded in Permit area by GHD (2016). Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area. Not a cryptic species and survey of Permit Area (GHD 2016) conducted during reported flowering period.	Unlikely
TPFL, WAHerb	<i>Frankenia parvula</i>	Frankeniaceae	T	Edges of salt lakes	October to March	Shrub	Habitat not present, 11 records within 40 km, most recent in 2006.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Gastrolobium graniticum</i>	Fabaceae	T	Sand, sandy loam, granite. Margins of rock outcrops, along drainage lines.	August to September	Shrub	Habitat not present, 2 records within 40 km, most recent in 2013.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Gastrolobium semiteres</i>	Fabaceae	P3	Deep yellow sand, yellow to brown sandy clay, gravel, granite. Broad sand dunes, around rocks, undulating plains.	August to October	Shrub	Habitat may be present, 6 records within 40 km, most recent in 1999.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
WAHerb	<i>Gompholobium cinereum</i>	Fabaceae	P3	Yellow sand, clayey sand, brown loam, sandy gravel, laterite. Well-drained open sites, slopes, plains, roadsides.	Unknown	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1947.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
TPFL, WAHerb	<i>Goodenia heatheriana</i>	Goodeniaceae	P1	Red crumbly clay, greenstone gravel and cobbles. Lower slopes, moderately exposed gently undulating plain, roadsides.	September to October	Annual herb	Habitat unlikely to be present, 10 records within 40 km, most recent in 2016.	Unlikely	Not recorded in Permit area by GHD (2016). Species can be cryptic, however GHD (2016) survey occurred within the reported flowering period.	Unlikely
WAHerb	<i>Grevillea lissopleura</i>	Proteaceae	P1	Stony loam on banded ironstone. On ridges.	August	Shrub	Habitat unlikely to be present, 1 record within 40 km, most recent in 1991.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
TPFL, WAHerb	<i>Grevillea phillipsiana</i>	Proteaceae	P1	Red sand, stony loam. Granite hills.	July to September	Shrub	Habitat unlikely to be present, 2 records within	Unlikely	Not recorded during MRWA and other proponent surveys in	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
							40 km, most recent in 1994.		vicinity of MP_57 Permit Area.	
WAHerb	<i>Grevillea prostrata</i>	Proteaceae	P4	White, grey or yellow sand, gravel. Sandplains.	August to January	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1982.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
TPFL, WAHerb	<i>Hakea pendens</i>	Proteaceae	P3	Stony loam. Ironstone ridges.	September	Shrub	Habitat may be present, 48 records within 40 km, most recent in 2010.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
WAHerb	<i>Hemigenia glaucissima</i>	Lamiaceae	P1	Yellow sands with surface laterite.	October to May	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2020.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
WAHerb	<i>Hemigenia</i> sp. Newdegate (E. Bishop 75)	Lamiaceae	P1	Clay loam. Disturbed sites.	September to October	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2019.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
WAHerb	<i>Hydrocotyle corynophora</i>	Araliaceae	P1	Damp depressions which seasonally dry into areas of red or red-brown cracking clays or clay loam.	September to October	Annual herb	Habitat not present, 11 records within 40 km, most recent in 2016.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
TPFL, WAHerb	<i>Isopogon robustus</i>	Proteaceae	T	Skeletal grey sandy loam, laterite. Ridges.	October	Shrub	Habitat unlikely to be present, 16 records within 40 km, most recent in 2016.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
TPFL, WAHerb	<i>Lepidium genistoides</i>	Brassicaceae	P3	Sandy loam.	September to October	Shrub	Habitat may be present, 3 records within 40 km, most recent in 1987.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
WAHerb	<i>Lepidosperma</i> sp. Mt Caudan (N. Gibson & M. Lyons 2081)	Cyperaceae	P1	Rocky substrates	Unknown	Sedge	Habitat may be present, 5 records within 40 km, most recent in 2007.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
WAHerb	<i>Lepidosperma</i> sp. Parker Range (N. Gibson & M. Lyons 2094)	Cyperaceae	P1	Rocky substrates, banded ironstone range	Unknown	Sedge	Habitat not present, 1 records within 40 km, most recent in 1994.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Lepidosperma</i> sp. Pigeon Rocks (H. Pringle 30237)	Cyperaceae	P3	Rocky substrates	Unknown	Sedge	Habitat may be present, 2 records within 40 km, most recent in 2010.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
TPFL, WAHerb	<i>Leucopogon</i> sp. Yellowdine (M. Hislop & F. Hort MH 3194)	Ericaceae	P2	Flat. Moist yellow sand. Burnt >5	Unknown	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2011.	Possible	Not recorded in Permit area by GHD (2016). Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area. Species is not cryptic and survey undertaken during the reported flowering period.	Unlikely
TPFL, WAHerb	<i>Leucopogon validus</i>	Ericaceae	P1	Dry, brown, rocky sandy loam, brown-orange sandy clay, gravel, ironstone, sandstone. Low ranges,	Unknown	Shrub	Habitat unlikely to be present, 8 records within 40 km, most recent in 2003.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
				on and around exposed breakaways.						
TPFL, WAHerb	<i>Lissanthe scabra</i>	Ericaceae	P2	Dry, white to orange-brown clay, sandy gravel loams, granite. Breakaways, uplands.	August	Shrub	Habitat unlikely to be present, 18 records within 40 km, most recent in 2020.	Unlikely	No suitable habitat occurs within the Permit Area (GHD 2016). Not recorded in Permit area by GHD (2016). Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Highly Unlikely
WAHerb	<i>Melichrus</i> sp. Coolgardie (K.R. Newbey 8698)	Ericaceae	P1	Unknown	Unknown	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2022.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
WAHerb	<i>Microcorys</i> sp. Forrestania (V. English 2004)	Lamiaceae	P4	Yellow sandy clay or red-brown clay. Open woodland or cleared areas.	January to April	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2002.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
TPFL, WAHerb	<i>Microseris walteri</i>	Asteraceae	P3	Wide range of habitats	October to January	Annual herb	Habitat may be present, 3 records within 40 km, most recent in 1979.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
WAHerb	<i>Millotia newbeyi</i>	Asteraceae	P1	Red/brown loam, red clay. Undulating plains.	September	Annual herb	Habitat may be present, 5 record/s within 40 km, some records within 20 - 40 km, most recent in 2009	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
WAHerb	<i>Mirbelia taxifolia</i>	Fabaceae	P1	Red or yellow sand.	September	Shrub	Habitat may be present, 8 records within 40 km, most recent in 1934.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
TPFL, WAHerb	<i>Notisia intonsa</i>	Asteraceae	P3	Red/brown clay, stony saline loam.	September to October	Annual herb	Habitat may be present, 4 records within 40 km, most recent in 2015.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
WAHerb	<i>Phebalium brachycalyx</i>	Rutaceae	P3	Sand, gravelly soils. Lateritic uplands, hills.	August to September	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1966.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
WAHerb	<i>Phebalium drummondii</i>	Rutaceae	P3	Gravelly sandy or clayey soils. Flats, roadsides.	July to September	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2020.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
WAHerb	<i>Philothea falcata</i>	Rutaceae	T	Unknown	October	Shrub	Habitat not present, 5 records within 40 km, most recent in 1931.	Unlikely	No suitable habitat within the Permit Area (GHD 2016a). Not recorded in Permit Area by GHD (2016a). Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
WAHerb	<i>Phlegmatospermum eremaicum</i>	Brassicaceae	P3	Stony loam.	August to October	Annual herb	Habitat may be present, 1 records within 40 km, most recent in 2015.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
WAHerb	<i>Prostanthera nanophylla</i>	Lamiaceae	P3	Yellow sand over laterite, rocky loam. Sandplains.	August to November	Shrub	Habitat may be present, 2 records within 40 km, most recent in 1967.	Unlikely	Not recorded in Permit Area by GDH (2016).  Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.  Species is not cryptic and survey (GHD 2016) was conducted during the reported flowering period.	Unlikely
WAHerb	<i>Rinzia fimbriolata</i>	Myrtaceae	P1	Sandy soil one record from 'clay soil with quartz pieces'.	September	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2005.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
TPFL, WAHerb	<i>Rinzia medifila</i>	Myrtaceae	P1	Hillsides, often on rocky sites.	August to December	Shrub	Habitat not present, 1 records within 40 km, most recent in 1994.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Highly Unlikely
WAHerb	<i>Rinzia torquata</i>	Myrtaceae	P3	Well-drained gravelly sand, yellow loamy sand, laterite. Sandplains, slightly undulating sites, near creeks, on exposed small rises.	September	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2020.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
TPFL, WAHerb	<i>Rinzia triplex</i>	Myrtaceae	P3	Yellow to orange sandy loam with laterite gravel. Gently undulating sandplains, low ridges, road verges.	June	Shrub	Habitat may be present, 3 records within 40 km, most recent in 2003.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
WAHerb	<i>Stackhousia muricata</i> subsp. Perennial (W.R. Barker 3641)	Celastraceae	P3	In sands or loams often with rocks or gravel.	July to November	Perennial herb	Habitat may be present, 3 records within 40 km, most recent in 1997.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.  Species is not considered cryptic.	Unlikely
TPFL, WAHerb	<i>Stenanthemum bremerense</i>	Rhamnaceae	P4	Orange-brown sandy loam, orange-red gravelly loam, skeletal red loam, laterite, ironstone. Top or sides of outcrops and breakaways.	May to November	Shrub	Habitat may be present, 3 records within 40 km, most recent in 2019	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
TPFL, WAHerb	<i>Stylidium choreanthum</i>	Stylidiaceae	P3	White/yellow or red sand. Plains.	September to November	Perennial herb	Habitat may be present, 16 record within 40 km, most recent in 2011.	Possible	Not recorded in Permit Area by GHD (2016a).  Species can be cryptic although survey (GHD 2016a) conducted during recorded flowering period.	Unlikely
TPFL, WAHerb	<i>Stylidium pulviniforme</i>	Stylidiaceae	P3	White sand. Winter-wet areas.	September to November	Perennial herb	Habitat not present, 6 records within 40 km, most recent in 2021.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Highly Unlikely
WAHerb	<i>Teucrium diabolicum</i>	Lamiaceae	P3	Hills, road verges.	April	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2015.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
TPFL, WAHerb	<i>Thryptomene interzonensis</i>	Myrtaceae	P1	Yellow clayey sandplain, the edge of a salt pan over exposed	November to January	Shrub	Habitat unlikely to be present, 2 records within 40 km, most recent in 1997	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
				granite, and sandplain.						
TPFL, WAHerb	<i>Verticordia dasystylis</i> subsp. <i>dasystylis</i>	Myrtaceae	P2	Granitic sand or clay loam. Granite rocks.	September to November	Shrub	Habitat not present, 24 records within 40 km, most recent in 2010.	Unlikely	No suitable habitat occurs within the Permit Area (GHD 2016). Not recorded in Permit Area by GDH (2016). Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Highly Unlikely
WAHerb	<i>Verticordia elizabethiae</i>	Myrtaceae	P1	Flats surrounding salt lakes, with halophytic heath	October to December	Shrub	Habitat not present, 4 records within 40 km, most recent in 2004.	Highly Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_50 Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Verticordia mitodes</i>	Myrtaceae	P3	Yellow sand. Undulating plains.	October to January	Shrub	Habitat may be present, 10 records within 40 km, most recent in 2008.	Possible	Not recorded in Permit Area by GDH (2016a). Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
TPFL, WAHerb	<i>Verticordia multiflora</i> subsp. <i>solox</i>	Myrtaceae	P2	Yellow sand over gravel, sand over granite.	October to January	Shrub	Habitat may be present, 7 records within 40 km, most recent in 1987.	Unlikely	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely
TPFL, WAHerb	<i>Verticordia roei</i> subsp. <i>meiogona</i>	Myrtaceae	P1	Yellow sand, sandy loam with gravel. Roadside verges.	September to October	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2020	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.  Species is not cryptic and easily identifiable.	Unlikely
TPFL, WAHerb	<i>Verticordia stenopetala</i>	Myrtaceae	P3	Yellow sand, sometimes with gravel. Undulating plains.	October to January	Shrub	Habitat may be present, 20 records within 40 km, most recent in 2020.	Possible	Not recorded in Permit Area by GDH (2016). Survey of Permit Area not within recorded flowering period.	Possible
WAHerb	<i>Westringia acifolia</i>	Lamiaceae	P1	Brown clay and sand.	December	Shrub	Habitat may be present, 13 records within 40 km, most recent in 2020.	Possible	Not recorded during MRWA and other proponent surveys in vicinity of MP_57 Permit Area.	Unlikely

## 6.1.5 MP 58 Area (Plan 6952/1h)

Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Likelihood of Occurrence
TPFL, WAHerb	<i>Acacia cylindrica</i>	Fabaceae	P3	Yellow/brown sand, gravelly soils. Undulating plains, flats.	August to October	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2013.	Possible	Not recorded in Permit area by GHD (2016b).	Unlikely
TPFL, WAHerb	<i>Acacia desertorum</i> var. <i>nudipes</i>	Fabaceae	P3	Yellow sand, lateritic gravel. Sandplains, flats.	August to October	Shrub	Habitat may be present, 12 records within 40 km, most recent in 2013.	Possible	Recorded during survey of Permit Area (GHD 2016b)	Recorded 2016, 2021, 2025
WAHerb	<i>Acacia inophloia</i>	Fabaceae	P3	Yellow sand, gravelly granitic soils.	August to October	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2023.	Possible	Not recorded in Permit area by GHD (2016a) or Phoenix (2026).	Unlikely
TPFL	<i>Acacia merrickiae</i>	Fabaceae	P4	Sandy loam, clay, yellow sand.	April to June	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2006.	Possible	Not recorded during MRWA or other proponent surveys in vicinity of MP_58 Permit Area.	Unlikely
TPFL, WAHerb	<i>Balaustion grandibracteatum</i> subsp. <i>grandibracteatum</i>	Myrtaceae	P3	Unknown	Unknown	Shrub	Habitat may be present, 3 records within 40 km, most recent in 1945.	Possible	Not recorded in Permit Area by GHD (2016b). Not recorded during MRWA surveys in vicinity of Permit Area	Unlikely
TPFL, WAHerb	<i>Banksia lullfitzii</i>	Proteaceae	P3	Yellow sand. Sandplains.	March to May	Shrub	Habitat may be present, 27 records within 40 km, most recent in 2019.	Possible	Recorded during survey of Permit Area (GHD 2016b)	Recorded 2016, 2021, 2025
TPFL, WAHerb	<i>Bossiaea celata</i>	Fabaceae	P3	Deep sand. Open mallee.	September to October	Shrub	Habitat maybe present, 16 records within 40 km, most recent in 2000.	Possible	Not recorded in MP_58 Permit Area by GHD (2016b). Recorded during MRWA surveys, however not in the vicinity of MP_58.	Unlikely
WAHerb	<i>Chrysocephalum apiculatum</i> subsp. <i>norsemanense</i>	Asteraceae	P3	Yellow or red sand, yellow sandy clay, and calcareous soil.	September to November	Perennial herb	Habitat may be present, 1 record within 40 km, most recent in 1989.	Possible	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Cryptandra polyclada</i> subsp. <i>aequabilis</i>	Rhamnaceae	P1	Sand.	October	Shrub	Habitat may be present, 7 records within 40 km, most recent in 2014.	Possible	Not recorded in MP_58 Permit Area by GHD (2016b). Survey undertaken during the reported flowering period	Unlikely
TPFL, WAHerb	<i>Cyathostemon verrucosus</i>	Myrtaceae	P3	Unknown	Unknown	Shrub	Habitat may be present, 5 records within 40 km, most recent in 1997.	Possible	Not recorded in MP_58 Permit Area by GHD (2016b), although suitable habitat occurs. Species is cryptic and survey was undertaken during the reported flowering period.	Possible
TPFL, WAHerb	<i>Daviesia sarissa</i> subsp. <i>redacta</i>	Fabaceae	P2	Yellow sand. Plains.	September	Shrub	Habitat may be present, 11 records within 40 km, most recent in 2018.	Possible	Not recorded in MP_58 Permit Area by GHD (2016b), although suitable habitat occurs. Species is not cryptic and survey was undertaken during the reported flowing period. Not recorded during MRWA surveys within the vicinity of the Permit Area.	Unlikely
WAHerb	<i>Eucalyptus calycogona</i> subsp. <i>miraculum</i>	Myrtaceae	P1	Pale orange to red clay-loams to thin stony loams with ironstone gravel.	September to October	Mallee	Habitat may be present, 2 records within 40 km, most recent in 2003.	Unlikely	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Likelihood of Occurrence
TPFL, WAHerb	<i>Eucalyptus exigua</i>	Myrtaceae	P3	Sandy loam, white sand. Sandplains.	March	Mallee	Habitat may be present, 1 record within 40 km, most recent in 2000.	Possible	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Eucalyptus urna</i> subsp. <i>xesta</i>	Myrtaceae	P3	Level to undulating terrain or around salt lakes, in red clay-loam or gravelly clay overlying limestone	Unknown	Mallet	Habitat unlikely to be present, 5 records within 40 km, most recent in 2023.	Unlikely	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Eutaxia rubricarina</i>	Fabaceae	P3	Gravelly sand, grey to pinkish-white sandy clay, red loam. Flats, slopes, valley floors, road verges.	August to October	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2007.	Possible	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Frankenia parvula</i>	Frankeniaceae	T	Edges of salt lakes	October to March	Shrub	Habitat not present, 11 records within 40 km, most recent in 2006.	Highly Unlikely	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Highly Unlikely
TPFL, WAHerb	<i>Gastrolobium graniticum</i>	Fabaceae	T	Sand, sandy loam, granite. Margins of rock outcrops, along drainage lines.	August to September	Shrub	Habitat not present, 3 records within 40 km, most recent in 2022.	Highly Unlikely	Not recorded in MP_58 Permit Area by GHD (2016b) with no suitable habitat occurring within the survey area. Not recorded during MRWA surveys within the vicinity of the Permit Area	Highly Unlikely
TPFL, WAHerb	<i>Gastrolobium semiteres</i>	Fabaceae	P3	Deep yellow sand, yellow to brown sandy clay, gravel, granite. Broad sand dunes, around rocks, undulating plains.	August to October	Shrub	Habitat may be present, 16 records within 40 km, most recent in 1999.	Possible	Not recorded within MP_58 Permit Area by GHD (2016b). Recorded in the Permit area by Phoenix (2026). Although suitable habitat occurs the species is not cryptic and the survey of Permit Area undertaken during recorded flowing period.	Recorded 2025
WAHerb	<i>Grammosolen odgersii</i> subsp. <i>odgersii</i>	Solanaceae	P2	Red or yellow sand.	July to October	Shrub	Habitat may be present, 5 records within 40 km, most recent in 1979.	Unlikely	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Grevillea lissopleura</i>	Proteaceae	P1	Stony loam on banded ironstone. On ridges.	August	Shrub	Habitat not present, 1 record within 40 km, most recent in 1991.	Highly Unlikely	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Highly Unlikely
WAHerb	<i>Grevillea prostrata</i>	Proteaceae	P4	White, grey or yellow sand, gravel. Sandplains.	August to January	Shrub	Habitat may be present, 1 records within 40 km, most recent in 1982.	Unlikely	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Hakea pendens</i>	Proteaceae	P3	Stony loam. Ironstone ridges.	September	Shrub	Habitat not present, 1 records within 40 km, most recent in 2010.	Highly Unlikely	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Lepidosperma</i> sp. Pigeon Rocks (H. Pringle 30237)	Cyperaceae	P3	Rocky substrates	Unknown	Sedge	Habitat may be present, 3 records within 40 km, most recent in 2019.	Possible	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Possible
TPFL, WAHerb	<i>Leucopogon</i> sp. Yellowdine (M. Hislop & F. Hort MH 3194)	Ericaceae	P2	Flat. Moist yellow sand. Burnt >5	Unknown	Shrub	Habitat may be present, 3 records within 40 km, most recent in 2014.	Possible	Recorded by Pheonix (2026) in vicinity of Permit Area.	Possible

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Likelihood of Occurrence
TPFL, WAHerb	<i>Lissanthe scabra</i>	Ericaceae	P2	Dry, white to orange-brown clay, sandy gravel loams, granite. Breakaways, uplands.	August	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2010	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Mirbelia taxifolia</i>	Fabaceae	P1	Red or yellow sand.	September	Shrub	Habitat may be present, 8 records within 40 km, most recent in 1934.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Myriophyllum petraeum</i>	Haloragaceae	P4	Strictly confined to ephemeral rock pools on granite outcrops.	August to December	Aquatic herb	Habitat not present, 2 records within 40 km, most recent in 2011.	Highly Unlikely	Not recorded within MP_58 Permit Area by GHD (2016b) and deemed unlikely to occur with no suitable habitat.	Highly Unlikely
WAHerb	<i>Phebalium brachycalyx</i>	Rutaceae	P3	Sand, gravelly soils. Lateritic uplands, hills.	August to September	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1966.	Unlikely	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Philotheca falcata</i>	Rutaceae	T	Mulga shrubland on rocky slopes of red skeletal laterite (Wilson, 1998)	October	Shrub	Habitat not present, 5 records within 40 km, most recent in 1931.	Unlikely	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Phlegmatospermum eremaicum</i>	Brassicaceae	P3	Stony loam.	August to October	Annual herb	Habitat may be present, 1 record within 40 km, most recent in 1900.	Unlikely	Not recorded within the Permit Area by GHD (2016b) and no suitable habitat occurs. Not recorded during MRWA or other proponent surveys within the vicinity of the Permit Area.	Unlikely
WAHerb	<i>Rinzia fimbriolata</i>	Myrtaceae	P1	Sandy soil one record from 'clay soil with quartz pieces'.	September	Shrub	Habitat may be present, no records within 40 km.	Highly Unlikely	Recorded by Phoenix (2026).	Recorded 2025
TPFL, WAHerb	<i>Rinzia triplex</i>	Myrtaceae	P3	Yellow to orange sandy loam with laterite gravel. Gently undulating sandplains, low ridges, road verges.	June	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2019.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Stackhousia muricata</i> subsp. Perennial (W.R. Barker 3641)	Celastraceae	P3	In sands or loams often with rocks or gravel.	July to November	Perennial herb	Habitat may be present, 5 records within 40 km, most recent in 1997.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity. Species not considered cryptic.	Unlikely
TPFL, WAHerb	<i>Stylidium choreanthum</i>	Stylidiaceae	P3	White/yellow or red sand. Plains.	September to November	Perennial herb	Habitat may be present, 6 records within 40 km, most recent in 1996.	Possible	Not recorded in MP_59 Permit Area by GHD (2016b).	Unlikely
TPFL, WAHerb	<i>Stylidium pulviniforme</i>	Stylidiaceae	P3	White sand. Winter-wet areas.	September to November	Perennial herb	Habitat not present, 6 records within 40 km, most recent in 2021.	Highly Unlikely	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Highly Unlikely
TPFL, WAHerb	<i>Thryptomene interzonensis</i>	Myrtaceae	P1	Yellow clayey sandplain, the edge of a salt pan over exposed granite, and sandplain.	November to January	Shrub	Habitat may be present, 2 records within 40 km, most recent in 1997.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Thysanotus</i> sp. Yellowdine (A.S. George 6040)	Asparagaceae	P2	Yellow sand over gravel.	Unknown	Annual herb	Habitat may be present, 3 records within 40 km, most recent in 2014.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Verticordia dasystylis</i> subsp. <i>dasystylis</i>	Myrtaceae	P2	Granitic sand or clay loam. Granite rocks.	September to November	Shrub	Habitat may be present, 24 records within 40 km, most recent in 2010.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Verticordia elizabethiae</i>	Myrtaceae	P1	Flats surrounding salt lakes, with halophytic heath	October to December	Shrub	Habitat not present, 1 record within 40 km, most	Highly Unlikely	Not recorded during MRWA or other proponent surveys within the Permit Area	Highly Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Likelihood of Occurrence
							recent in 1997.		or within vicinity of the Permit Area.	
TPFL, WAHerb	<i>Verticordia mitodes</i>	Myrtaceae	P3	Yellow sand. Undulating plains.	October to January	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2002.	Possible	Not recorded during survey of MP_58 Permit Area by GHD (2016b). Large areas of suitable habitat occur.  GHD (2016b) survey was not undertaken during recorded flowering period for this species.	Possible.

## 6.1.6 MP 59 Area (Plan 6952/1h)

Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
TPFL, WAHerb	<i>Acacia cylindrica</i>	Fabaceae	P3	Yellow/brown sand, gravelly soils. Undulating plains, flats.	August to October	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2013.	Possible	Not recorded in Permit area by GHD (2016b).	Unlikely
TPFL, WAHerb	<i>Acacia desertorum</i> var. <i>nudipes</i>	Fabaceae	P3	Yellow sand, lateritic gravel. Sandplains, flats.	August to October	Shrub	Habitat may be present, 12 records within 40 km, most recent in 2013.	Possible	Large number of individuals recorded during MRWA and other proponent surveys within and adjacent to the Permit Area.	Possible
WAHerb	<i>Acacia inophloia</i>	Fabaceae	P3	Yellow sand, gravelly granitic soils.	August to October	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2023.	Possible	Not recorded in Permit area by GHD (2016b) or Phoenix (2026).	Unlikely
TPFL	<i>Acacia merrickiae</i>	Fabaceae	P4	Sandy loam, clay, yellow sand.	April to June	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2006.	Possible	Not recorded during MRWA or other proponent surveys in vicinity of MP_59 Permit Area.	Unlikely
TPFL, WAHerb	<i>Balaustion grandibracteatum</i> subsp. <i>grandibracteatum</i>	Myrtaceae	P3	Unknown	Unknown	Shrub	Habitat may be present, 3 records within 40 km, most recent in 1945.	Unlikely	Not recorded in Permit Area by GHD (2016b). Not recorded during MRWA surveys in vicinity of Permit Area	Unlikely
TPFL, WAHerb	<i>Banksia lullfitzii</i>	Proteaceae	P3	Yellow sand. Sandplains.	March to May	Shrub	Habitat may be present, 27 records within 40 km, most recent in 2019.	Possible	Recorded during MRWA surveys in vicinity of MP_59.	Possible
TPFL, WAHerb	<i>Bossiaea celata</i>	Fabaceae	P3	Deep sand. Open mallee.	September to October	Shrub	Habitat may be present, 16 records within 40 km, most recent in 2000.	Possible	Not recorded in MP_59 Permit Area by GHD (2016b). Recorded during MRWA surveys, however not in the vicinity of MP_59.	Unlikely
WAHerb	<i>Chrysocephalum apiculatum</i> subsp. <i>norsemanense</i>	Asteraceae	P3	Yellow or red sand, yellow sandy clay, and calcareous soil.	September to November	Perennial herb	Habitat may be present, 1 record within 40 km, most recent in 1989.	Possible	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Cryptandra polyclada</i> subsp. <i>aequabilis</i>	Rhamnaceae	P1	Sand.	October	Shrub	Habitat may be present, 7 records within 40 km, most recent in 2014.	Possible	Not recorded in MP_59 Permit Area by GHD (2016b). Survey undertaken during the reported flowering period	Unlikely
TPFL, WAHerb	<i>Cyathostemon verrucosus</i>	Myrtaceae	P3	Unknown	Unknown	Shrub	Habitat may be present, 5 records within 40 km, most recent in 1997.	Possible	Not recorded in MP_59 Permit Area by GHD (2016b), although suitable habitat occurs. Species is cryptic and survey was undertaken during the reported flowering period.	Possible
TPFL, WAHerb	<i>Daviesia sarissa</i> subsp. <i>redacta</i>	Fabaceae	P2	Yellow sand. Plains.	September	Shrub	Habitat may be present, 11 records within 40 km, most recent in 2018.	Possible	Not recorded in MP_59 Permit Area by GHD (2016b), although suitable habitat occurs. Species is not cryptic and survey was undertaken during the reported flowing period. Not recorded during MRWA surveys within the vicinity of the Permit Area.	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
WAHerb	<i>Eucalyptus calycogona</i> subsp. <i>miraculum</i>	Myrtaceae	P1	Pale orange to red clay-loams to thin stony loams with ironstone gravel.	September to October	Mallee	Habitat may be present, 2 records within 40 km, most recent in 2003.	Possible	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Eucalyptus exigua</i>	Myrtaceae	P3	Sandy loam, white sand. Sandplains.	March	Mallee	Habitat may be present, 1 record within 40 km, most recent in 2000.	Possible	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Eucalyptus urna</i> subsp. <i>xesta</i>	Myrtaceae	P3	Level to undulating terrain or around salt lakes, in red clay-loam or gravelly clay overlying limestone	Unknown	Mallet	Habitat unlikely to be present, 5 records within 40 km, most recent in 2023.	Unlikely	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Eutaxia rubricarina</i>	Fabaceae	P3	Gravelly sand, grey to pinkish-white sandy clay, red loam. Flats, slopes, valley floors, road verges.	August to October	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2007.	Possible	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Frankenia parvula</i>	Frankeniaceae	T	Edges of salt lakes	October to March	Shrub	Habitat not present, 11 records within 40 km, most recent in 2006.	Highly Unlikely	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Gastrolobium graniticum</i>	Fabaceae	T	Sand, sandy loam, granite. Margins of rock outcrops, along drainage lines.	August to September	Shrub	Habitat unlikely to be present, 3 records within 40 km, most recent in 2022.	Unlikely	Not recorded in MP_59 Permit Area by GHD (2016b) with no suitable habitat occurring within the survey area. Not recorded during MRWA surveys within the vicinity of the Permit Area	Highly Unlikely
TPFL, WAHerb	<i>Gastrolobium semiteres</i>	Fabaceae	P3	Deep yellow sand, yellow to brown sandy clay, gravel, granite. Broad sand dunes, around rocks, undulating plains.	August to October	Shrub	Habitat may be present, 16 records within 40 km, most recent in 1999.	Possible	Not recorded within MP_59 Permit Area by GHD (2016b). Recorded by MRWA surveys within vicinity of the Permit Area. Suitable habitat occurs (GHD 2016b).	Possible
WAHerb	<i>Grammosolen odgersii</i> subsp. <i>odgersii</i>	Solanaceae	P2	Red or yellow sand.	July to October	Shrub	Habitat may be present, 5 records within 40 km, most recent in 1979.	Unlikely	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Grevillea lissopleura</i>	Proteaceae	P1	Stony loam on banded ironstone. On ridges.	August	Shrub	Habitat not present, 1 record within 40 km, most recent in 1991.	Highly Unlikely	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Highly Unlikely
WAHerb	<i>Grevillea prostrata</i>	Proteaceae	P4	White, grey or yellow sand, gravel. Sandplains.	August to January	Shrub	Habitat may be present, 1 records within 40 km, most recent in 1982.	Unlikely	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Hakea pendens</i>	Proteaceae	P3	Stony loam. Ironstone ridges.	September	Shrub	Habitat not present, 1 record within 40 km, most recent in 2010.	Highly Unlikely	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Highly Unlikely
TPFL, WAHerb	<i>Lepidosperma</i> sp. Pigeon Rocks (H. Pringle 30237)	Cyperaceae	P3	Rocky substrates	Unknown	Sedge	Habitat may be present, 3 records within 40 km, most recent in 2019.	Possible	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Possible

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
TPFL, WAHerb	<i>Leucopogon</i> sp. Yellowdine (M. Hislop & F. Hort MH 3194)	Ericaceae	P2	Flat. Moist yellow sand. Burnt >5	Unknown	Shrub	Habitat may be present, 3 records within 40 km, most recent in 2014.	Possible	Recorded by Pheonix (2026) in vicinity of Permit Area.	Possible
TPFL, WAHerb	<i>Lissanthe scabra</i>	Ericaceae	P2	Dry, white to orange-brown clay, sandy gravel loams, granite. Breakaways, uplands.	August	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2010.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Mirbelia taxifolia</i>	Fabaceae	P1	Red or yellow sand.	September	Shrub	Habitat may be present, 8 records within 40 km, most recent in 1934.	Unlikely	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Myriophyllum petraeum</i>	Haloragaceae	P4	Strictly confined to ephemeral rock pools on granite outcrops.	August to December	Aquatic herb	Habitat not present, 2 records within 40 km, most recent in 2011.	Highly Unlikely	Not recorded within MP_59 Permit Area by GHD (2016b) and deemed unlikely to occur with no suitable habitat.	Highly Unlikely
WAHerb	<i>Phebalium brachycalyx</i>	Rutaceae	P3	Sand, gravelly soils. Lateritic uplands, hills.	August to September	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1966.	Unlikely	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Philotheca falcata</i>	Rutaceae	T	Mulga shrubland on rocky slopes of red skeletal laterite (Wilson, 1998)	October	Shrub	Habitat not present, 5 records within 40 km, most recent in 1931.	Unlikely	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Phlegmatospermum ermaeum</i>	Brassicaceae	P3	Stony loam.	August to October	Annual herb	Habitat may be present, 1 record within 40 km, most recent in 1900.	Unlikely	Not recorded within the Permit Area by GHD (2016b) and no suitable habitat occurs. Not recorded during MRWA or other proponent surveys within the vicinity of the Permit Area.	Unlikely
WAHerb	<i>Rinzia fimbriolata</i>	Myrtaceae	P1	Sandy soil one record from 'clay soil with quartz pieces'.	September	Shrub	Habitat may be present, No records within 40 km.	Highly Unlikely	Recorded by Phoenix (2026) within the vicinity of the Permit Area	Possible
TPFL, WAHerb	<i>Rinzia triplex</i>	Myrtaceae	P3	Yellow to orange sandy loam with laterite gravel. Gently undulating sandplains, low ridges, road verges.	June	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2019.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Stackhousia muricata</i> subsp. Perennial (W.R. Barker 3641)	Celastraceae	P3	In sands or loams often with rocks or gravel.	July to November	Perennial herb	Habitat may be present, 5 records within 40 km, most recent in 1997.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Stylidium choreanthum</i>	Stylidiaceae	P3	White/yellow or red sand. Plains.	September to November	Perennial herb	Habitat may be present, 6 records within 40 km, most recent in 1996.	Possible	Not recorded in MP_59 Permit Area by GHD (2016b).	Unlikely
TPFL, WAHerb	<i>Stylidium pulviniforme</i>	Stylidiaceae	P3	White sand. Winter-wet areas.	September to November	Perennial herb	Habitat not present, 6 records within 40 km, most recent in 2021.	Highly Unlikely	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Thryptomene interzonensis</i>	Myrtaceae	P1	Yellow clayey sandplain, the edge of a salt pan over exposed granite, and sandplain.	November to January	Shrub	Habitat may be present, 2 records within 40 km, most recent in 1997.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Thysanotus</i> sp. Yellowdine (A.S. George 6040)	Asparagaceae	P2	Yellow sand over gravel.	Unknown	Annual herb	Habitat may be present, 3 records within 40 km, most recent in 2014.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Verticordia dasystylis</i> subsp. <i>dasystylis</i>	Myrtaceae	P2	Granitic sand or clay loam. Granite rocks.	September to November	Shrub	Habitat may be present, 24 records within 40 km, most	Possible	Not recorded during MRWA or other proponent surveys of	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
							recent in 2010.		the Permit Area and within the vicinity.	
WAHerb	<i>Verticordia elizabethiae</i>	Myrtaceae	P1	Flats surrounding salt lakes, with halophytic heath	October to December	Shrub	Habitat not present, 1 records within 40 km, most recent in 1997.	Highly Unlikely	Not recorded during MRWA or other proponent surveys within the Permit Area or within vicinity of the Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Verticordia mitodes</i>	Myrtaceae	P3	Yellow sand. Undulating plains.	October to January	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2002.	Possible	Not recorded during survey of MP_59 Permit Area by GHD (2016b). Large areas of suitable habitat occur.  GHD (2016b) survey was not undertaken during recorded flowering period for this species.	Possible.

## 6.1.7 MP 60 Area (Plan 6952/1i)

Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
TPFL, WAHerb	<i>Acacia cylindrica</i>	Fabaceae	P3	Yellow/brown sand, gravelly soils. Undulating plains, flats.	August to October	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2013.	Possible	Recorded during survey of Permit Area (GHD 2016b)	Recorded 2016
TPFL, WAHerb	<i>Acacia desertorum</i> var. <i>nudipes</i>	Fabaceae	P3	Yellow sand, lateritic gravel. Sandplains, flats.	August to October	Shrub	Habitat may be present, 9 records within 40 km, most recent in 2013.	Possible	Large number of individuals recorded during MRWA and other proponent surveys within and adjacent to the Permit Area.	Possible
TPFL, WAHerb	<i>Banksia lullfitzii</i>	Proteaceae	P3	Yellow sand. Sandplains.	March to May	Shrub	Habitat may be present, 27 records within 40 km, most recent in 2019.	Possible	Recorded during MRWA surveys, however not in the vicinity of MP_60. Not recorded during survey of Permit Area MP_60 by GHD (2016b)	Unlikely
TPFL, WAHerb	<i>Bossiaea celata</i>	Fabaceae	P3	Deep sand. Open mallee.	September to October	Shrub	Habitat may be present, 16 records within 40 km, most recent in 2000.	Possible	Recorded during survey of Permit Area (GHD 2016b)	Recorded 1968, 2016
WAHerb	<i>Bossiaea concinna</i>	Fabaceae	P3	White or red sand, gravel.	June to September	Shrub	Habitat may be present, 5 records within 40 km, most recent in 1998.	Possible	Not recorded during MRWA or other proponent surveys in vicinity of MP_60 Permit Area.	Unlikely
WAHerb	<i>Chrysocephalum apiculatum</i> subsp. <i>norsemanense</i>	Asteraceae	P3	Yellow or red sand, yellow sandy clay, and calcareous soil.	September to November	Perennial herb	Habitat may be present, 1 record within 40 km, most recent in 1989.	Possible	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Cryptandra crispula</i>	Rhamnaceae	P3	Brown sandy clay, yellow loamy sand, red soil, pebbles. Dune ridges, hills, near salt lakes.	July to September	Shrub	Habitat may be present, no records within 40 km.	Highly Unlikely	Recorded during survey of Permit Area (GHD 2016b) in the adjacent Pit Area.	Possible
TPFL, WAHerb	<i>Cryptandra polyclada</i> subsp. <i>aequabilis</i>	Rhamnaceae	P1	Sand.	October	Shrub	Habitat may be present, 7 records within 40 km, most recent in 2014.	Possible	Not recorded in MP_60 Permit Area by GHD (2016b). Survey undertaken during the reported flowering period	Unlikely
TPFL, WAHerb	<i>Cyathostemon verrucosus</i>	Myrtaceae	P3	Unknown	Unknown	Shrub	Habitat may be present, 7 records within 40 km, most recent in 2003.	Possible	Not recorded in MP_60 Permit Area by GHD (2016b), although suitable habitat occurs. Species is cryptic and survey was undertaken during the reported flowering period.	Possible
TPFL, WAHerb	<i>Daviesia sarissa</i> subsp. <i>redacta</i>	Fabaceae	P2	Yellow sand. Plains.	September	Shrub	Habitat may be present, 11 records within 40 km, most recent in 2018.	Possible	Not recorded in MP_60 Permit Area by GHD (2016b), although suitable habitat occurs. Species is not cryptic and survey was undertaken during the reported flowering period. Not recorded during MRWA surveys within the vicinity of the Permit Area.	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
TPFL, WAHerb	<i>Eucalyptus exigua</i>	Myrtaceae	P3	Sandy loam, white sand. Sandplains.	March	Mallee	Habitat may be present, 2 records within 40 km, most recent in 2001.	Possible	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Eucalyptus urna</i> subsp. <i>xesta</i>	Myrtaceae	P3	Level to undulating terrain or around salt lakes, in red clay-loam or gravelly clay overlying limestone	Unknown	Mallet	Habitat unlikely to be present, 5 record/s within 40 km, some records within < 4 km, most recent in 2023	Unlikely	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Gastrolobium graniticum</i>	Fabaceae	T	Sand, sandy loam, granite. Margins of rock outcrops, along drainage lines.	August to September	Shrub	Habitat not present, 3 records within 40 km, most recent in 2022.	Highly Unlikely	Not recorded in MP_60 Permit Area by GHD (2016b) with no suitable habitat occurring within the survey area. Not recorded during MRWA surveys within the vicinity of the Permit Area	Highly Unlikely
TPFL, WAHerb	<i>Gastrolobium semiteres</i>	Fabaceae	P3	Deep yellow sand, yellow to brown sandy clay, gravel, granite. Broad sand dunes, around rocks, undulating plains.	August to October	Shrub	Habitat possibly present, 14 record/s within 40 km, some records within < 4 km, most recent in 1999	Possible	Not recorded within MP_60 Permit Area by GHD (2016b). Recorded by MRWA surveys within vicinity of the Permit Area. Suitable habitat occurs (GHD 2016b).	Possible
TPFL, WAHerb	<i>Goodenia jaurdiensis</i>	Goodeniaceae	P2	Red clayey loam with laterite or banded ironstone gravel or quartz pebbles. Low-lying plains and lower slopes.	September to October	Perennial herb	Habitat may be present, 3 records within 40 km, most recent in 1981	Unlikely	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Grammosolen odgersii</i> subsp. <i>odgersii</i>	Solanaceae	P2	Red or yellow sand.	July to October	Shrub	Habitat may be present, 5 records within 40 km, most recent in 1979.	Unlikely	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Possible
TPFL, WAHerb	<i>Lepidosperma lyonsii</i>	Cyperaceae	P1	Pale orange skeletal sandy loam with banded ironstone gravel & rock, well-drained shallow stony loamy with quartz. Gentle hill slopes, upper slopes of large hill.	September to October	Sedge	Habitat unlikely to be present, 5 records within 40 km, most recent in 2013.	Unlikely	Recorded by other proponent in the vicinity of Permit Area (Phoenix 2021b)	Possible
TPFL, WAHerb	<i>Lepidosperma</i> sp. Pigeon Rocks (H. Pringle 30237)	Cyperaceae	P3	Rocky substrates	Unknown	Sedge	Habitat may be present, 1 record within 40 km, most recent in 2019.	Possible	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Possible
TPFL, WAHerb	<i>Leucopogon</i> sp. Yellowdine (M. Hislop & F. Hort MH 3194)	Ericaceae	P2	Flat. Moist yellow sand. Burnt >5	Unknown	Shrub	Habitat may be present, 5 records within 40 km, most recent in 2014.	Possible	Recorded by other proponent in the vicinity of Permit Area (Phoenix 2021b)	Possible
WAHerb	<i>Melichrus</i> sp. Coolgardie (K.R. Newbey 8698)	Ericaceae	P1	Unknown	Unknown	Shrub	Habitat may be present, 12 records within 40 km, most recent in 2020.	Possible	Not recorded within MP_60 Permit Area by GHD (2016b) Not recorded in MRWA or other proponent surveys within vicinity of Permit Area.	Unlikely
TPFL, WAHerb	<i>Myriophyllum petraeum</i>	Haloragaceae	P4	Strictly confined to ephemeral rock pools on granite outcrops.	August to December	Aquatic herb	Habitat not present, 2 records within 40 km, most recent in 2011.	Highly Unlikely	Not recorded within MP_60 Permit Area by GHD (2016b) and deemed unlikely to occur with no suitable habitat.	Highly Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
WAHerb	<i>Phebalium brachycalyx</i>	Rutaceae	P3	Sand, gravelly soils. Lateritic uplands, hills.	August to September	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1966.	Unlikely	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Phebalium</i> sp. Yerilgee Sandplain (J. Jackson 223)	Rutaceae	P2	Unknown	August	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2020.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Phlegmatospermum eremaum</i>	Brassicaceae	P3	Stony loam.	August to October	Annual herb	Habitat may be present, 1 record within 40 km, most recent in 1900.	Unlikely	No suitable habitat occurs within the Permit Area (GHD 2016b). Not recorded in Permit area by GHD (2016b). Not recorded during MRWA and other proponent surveys in vicinity of MP_60 Permit Area.	Unlikely
WAHerb	<i>Rinzia fimbriolata</i>	Myrtaceae	P1	Sandy soil one record from 'clay soil with quartz pieces'.	September	Shrub	Habitat may be present, no records within 40 km.	Possible	Not recorded by MRWA or other proponents within vicinity of MP_60 Permit Area.	Unlikely
TPFL, WAHerb	<i>Rinzia triplex</i>	Myrtaceae	P3	Yellow to orange sandy loam with laterite gravel. Gently undulating sandplains, low ridges, road verges.	June	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2019.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Sowerbaea multicaulis</i>	Asparagaceae	P4	Yellow-brown sand.	October to January	Perennial herb	Habitat may be present, 3 records within 40 km, most recent in 1999.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Stackhousia muricata</i> subsp. Perennial (W.R. Barker 3641)	Celastraceae	P3	In sands or loams often with rocks or gravel.	July to November	Perennial herb	Habitat may be present, 4 records within 40 km, most recent in 2011.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Stylidium choreanthum</i>	Stylidiaceae	P3	White/yellow or red sand. Plains.	September to November	Perennial herb	Habitat may be present, 1 record within 40 km, most recent in 1955.	Unlikely	Not recorded in MP_60 Permit Area by GHD (2016b). Species is cryptic and suitable habitat occurs (GHD 2016b).	Possible
TPFL, WAHerb	<i>Thryptomene interzonensis</i>	Myrtaceae	P1	Yellow clayey sandplain, the edge of a salt pan over exposed granite, and sandplain.	November to January	Shrub	Habitat unlikely to be present, 2 records within 40 km, most recent in 2010.	Unlikely	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Thysanotus argillaceus</i>	Asparagaceae	P1	Sand to sandy clay surface soil over clay, usually in the vicinity	October	Annual herb	Habitat unlikely to be present, 1 record within 40 km, most recent in 2016.	Unlikely	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Thysanotus</i> sp. Yellowdine (A.S. George 6040)	Asparagaceae	P2	Yellow sand over gravel.	Unknown	Annual herb	Habitat may be present, 3 records within 40 km, most recent in 2014.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Verticordia mitodes</i>	Myrtaceae	P3	Yellow sand. Undulating plains.	October to January	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2002.	Possible	Not recorded by GDH (2016b) within MP_60 Permit Area. Not recorded within MRWA or other proponent surveys within vicinity of Permit Area.	Unlikely

## 6.1.8 MP 61 Area (Plan 6952/1i)

Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
TPFL, WAHerb	<i>Acacia cylindrica</i>	Fabaceae	P3	Yellow/brown sand, gravelly soils. Undulating plains, flats.	August to October	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2013.	Possible	Recorded during survey of Permit Area (GHD 2016b)	Recorded 2016
TPFL, WAHerb	<i>Acacia desertorum</i> var. <i>nudipes</i>	Fabaceae	P3	Yellow sand, lateritic gravel. Sandplains, flats.	August to October	Shrub	Habitat may be present, 9 records within 40 km, most recent in 2013.	Possible	Large number of individuals recorded during MRWA and other proponents surveys within and adjacent to the Permit Area.	Possible
TPFL, WAHerb	<i>Banksia lullfitzii</i>	Proteaceae	P3	Yellow sand. Sandplains.	March to May	Shrub	Habitat may be present, 27 records within 40 km, most recent in 2019.	Possible	Recorded during MRWA surveys, however not in the vicinity of MP_61. Not recorded during survey of Permit Area MP_61 by GHD (2016b)	Unlikely
TPFL, WAHerb	<i>Bossiaea celata</i>	Fabaceae	P3	Deep sand. Open mallee.	September to October	Shrub	Habitat may be present, 16 records within 40 km, most recent in 2000.	Possible	Recorded during survey of Permit Area (GHD 2016b)	Recorded 2016
WAHerb	<i>Bossiaea concinna</i>	Fabaceae	P3	White or red sand, gravel.	June to September	Shrub	Habitat may be present, 5 records within 40 km, most recent in 1998.	Possible	Not recorded during MRWA or other proponent surveys in vicinity of MP_61 Permit Area.	Unlikely
WAHerb	<i>Chrysocephalum apiculatum</i> subsp. <i>norsemanense</i>	Asteraceae	P3	Yellow or red sand, yellow sandy clay, and calcareous soil.	September to November	Perennial herb	Habitat may be present, 1 record within 40 km, most recent in 1989.	Possible	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Cryptandra crispula</i>	Rhamnaceae	P3	Brown sandy clay, yellow loamy sand, red soil, pebbles. Dune ridges, hills, near salt lakes.	July to September	Shrub	Habitat may be present, no records within 40 km.	Possible	Recorded during survey of Permit Area (GHD 2016b)	Recorded 2016
TPFL, WAHerb	<i>Cryptandra polyclada</i> subsp. <i>aequabilis</i>	Rhamnaceae	P1	Sand.	October	Shrub	Habitat may be present, 7 records within 40 km, most recent in 2014.	Possible	Not recorded in MP_61 Permit Area by GHD (2016b). Survey undertaken during the reported flowering period	Unlikely
TPFL, WAHerb	<i>Cyathostemon verrucosus</i>	Myrtaceae	P3	Unknown	Unknown	Shrub	Habitat may be present, 7 records within 40 km, most recent in 2003.	Possible	Not recorded during MRWA or other proponent surveys in vicinity of MP_61 Permit Area.	Possible
TPFL, WAHerb	<i>Daviesia sarissa</i> subsp. <i>redacta</i>	Fabaceae	P2	Yellow sand. Plains.	September	Shrub	Habitat likely to be present, 11 record/s within 40 km, some records within < 4 km, most recent in 2018	Likely	Not recorded in MP_61 Permit Area by GHD (2016b), although suitable habitat occurs. Species is not cryptic and survey was undertaken during the reported flowing period. Not recorded during MRWA surveys within the vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Eucalyptus exigua</i>	Myrtaceae	P3	Sandy loam, white sand. Sandplains.	March	Mallee	Habitat may be present, 2 records within 40 km, most recent in 2001.	Possible	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Eucalyptus urna</i> subsp. <i>xesta</i>	Myrtaceae	P3	Level to undulating terrain or around salt lakes, in red clay-loam or gravelly clay overlying limestone	Unknown	Mallet	Habitat unlikely to be present, 5 records within 40 km, most recent in 2023.	Highly Unlikely	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
TPFL, WAHerb	<i>Gastrolobium graniticum</i>	Fabaceae	T	Sand, sandy loam, granite. Margins of rock outcrops, along drainage lines.	August to September	Shrub	Habitat not present, 3 records within 40 km, most recent in 2022.	Highly Unlikely	Not recorded in MP_61 Permit Area by GHD (2016b) with no suitable habitat occurring within the survey area. Not recorded during MRWA surveys within the vicinity of the Permit Area	Highly Unlikely
TPFL, WAHerb	<i>Gastrolobium semiteres</i>	Fabaceae	P3	Deep yellow sand, yellow to brown sandy clay, gravel, granite. Broad sand dunes, around rocks, undulating plains.	August to October	Shrub	Habitat may be present, 14 records within 40 km, most recent in 1999.	Possible	Not recorded within MP_61 Permit Area by GHD (2016b). Recorded by MRWA surveys within vicinity of the Permit Area. Suitable habitat occurs (GHD 2016b).	Possible
WAHerb	<i>Gompholobium cinereum</i>	Fabaceae	P3	Yellow sand, clayey sand, brown loam, sandy gravel, laterite. Well-drained open sites, slopes, plains, roadsides.	Unknown	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1947.	Unlikely	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Goodenia jaurdiensis</i>	Goodeniaceae	P2	Red clayey loam with laterite or banded ironstone gravel or quartz pebbles. Low-lying plains and lower slopes.	September to October	Perennial herb	Habitat may be present, 3 records within 40 km, most recent in 1981.	Possible	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Grammosolen odgersii</i> subsp. <i>odgersii</i>	Solanaceae	P2	Red or yellow sand.	July to October	Shrub	Habitat may be present, 5 records within 40 km, most recent in 1979.	Unlikely	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Lepidosperma lyonsii</i>	Cyperaceae	P1	Pale orange skeletal sandy loam with banded ironstone gravel & rock, well-drained shallow stony loamy with quartz. Gentle hill slopes, upper slopes of large hill.	September to October	Sedge	Habitat not present, 5 records within 40 km, most recent in 2013.	Unlikely	Recorded by other proponent in the vicinity of Permit Area (Phoenix 2021b)	Possible
TPFL, WAHerb	<i>Lepidosperma</i> sp. Pigeon Rocks (H. Pringle 30237)	Cyperaceae	P3	Rocky substrates	Unknown	Sedge	Habitat may be present, 1 record within 40 km, most recent in 2019.	Possible	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Possible
TPFL, WAHerb	<i>Leucopogon</i> sp. Yellowdine (M. Hislop & F. Hort MH 3194)	Ericaceae	P2	Flat. Moist yellow sand. Burnt >5	Unknown	Shrub	Habitat may be present, 5 records within 40 km, most recent in 2014.	Possible	Recorded by other proponent in the vicinity of Permit Area (Phoenix 2021b)	Possible
WAHerb	<i>Melichrus</i> sp. Coolgardie (K.R. Newbey 8698)	Ericaceae	P1	Unknown	Unknown	Shrub	Habitat may be present, 12 records within 40 km, most recent in 2020.	Possible	Not recorded within MP_61 Permit Area by GHD (2016b) Not recorded in MRWA or other proponent surveys within vicinity of Permit Area.	Unlikely
TPFL, WAHerb	<i>Myriophyllum petraeum</i>	Haloragaceae	P4	Strictly confined to ephemeral rock pools on granite outcrops.	August to December	Aquatic herb	Habitat not present, 2 records within 40 km, most recent in 2011.	Highly Unlikely	Not recorded within MP_61 Permit Area by GHD (2016b) and deemed unlikely to occur with no suitable habitat.	Highly Unlikely
WAHerb	<i>Phebalium brachycalyx</i>	Rutaceae	P3	Sand, gravelly soils. Lateritic uplands, hills.	August to September	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1966.	Highly Unlikely	Not recorded during MRWA or other proponent surveys of the	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
									Permit Area and within the vicinity.	
WAHerb	<i>Phebalium</i> sp. Yerilgee Sandplain (J. Jackson 223)	Rutaceae	P2	Unknown	August	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2020.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Phlegmatospermum eremaum</i>	Brassicaceae	P3	Stony loam.	August to October	Annual herb	Habitat may be present, 1 record within 40 km, most recent in 1900.	Possible	Not recorded within the Permit Area by GHD (2016b) and no suitable habitat occurs.  Not recorded during MRWA or other proponent surveys within the vicinity of the Permit Area.	Unlikely
WAHerb	<i>Rinzia fimbriolata</i>	Myrtaceae	P1	Sandy soil one record from 'clay soil with quartz pieces'.	September	Shrub	Habitat may be present, no records within 40 km.	Highly Unlikely	Not recorded by MRWA or other proponents within vicinity of MP_61 Permit Area.	Unlikely
TPFL, WAHerb	<i>Rinzia triplex</i>	Myrtaceae	P3	Yellow to orange sandy loam with laterite gravel. Gently undulating sandplains, low ridges, road verges.	June	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2019.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Sowerbaea multicaulis</i>	Asparagaceae	P4	Yellow-brown sand.	October to January	Perennial herb	Habitat may be present, 3 records within 40 km, most recent in 1999.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Stackhousia muricata</i> subsp. Perennial (W.R. Barker 3641)	Celastraceae	P3	In sands or loams often with rocks or gravel.	July to November	Perennial herb	Habitat may be present, 4 records within 40 km, most recent in 2011.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Stylidium choreanthum</i>	Stylidiaceae	P3	White/yellow or red sand. Plains.	September to November	Perennial herb	Habitat may be present, 1 record within 40 km, most recent in 1955.	Unlikely	Not recorded in MP_61 Permit Area by GHD (2016b).  Species is cryptic and suitable habitat occurs (GHD 2016b).	Possible
TPFL, WAHerb	<i>Thryptomene interzonensis</i>	Myrtaceae	P1	Yellow clayey sandplain, the edge of a salt pan over exposed granite, and sandplain.	November to January	Shrub	Habitat unlikely to be present, 2 records within 40 km, most recent in 2010.	Unlikely	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Thysanotus argillaceus</i>	Asparagaceae	P1	Sand to sandy clay surface soil over clay, usually in the vicinity	October	Annual herb	Habitat unlikely to be present, 1 record within 40 km, most recent in 2016.	Unlikely	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Thysanotus</i> sp. Yellowdine (A.S. George 6040)	Asparagaceae	P2	Yellow sand over gravel.	Unknown	Annual herb	Habitat may be present, 3 records within 40 km, most recent in 2014.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Verticordia mitodes</i>	Myrtaceae	P3	Yellow sand. Undulating plains.	October to January	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2002.	Possible	Not recorded by GDH (2016b) within MP_61 Permit Area.  Not recorded within MRWA or other proponent surveys within vicinity of Permit Area.	Unlikely

## 6.1.9 MP 62 Area (Plan 6952/1j)

Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
TPFL, WAHerb	<i>Acacia crenulata</i>	Fabaceae	P3	Clay, sandy clay, yellow sand. Rocky rises, granite outcrops, breakaways.	Unknown	Shrub	Habitat may be present, 6 records within 40 km, most recent in 2014.	Possible	Not recorded in Permit area by GHD (2016a).	Unlikely
TPFL, WAHerb	<i>Acacia cylindrica</i>	Fabaceae	P3	Yellow/brown sand, gravelly soils. Undulating plains, flats.	August to October	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2013.	Possible	Recorded during survey of Permit Area (GHD 2016b)	Recorded 2016
TPFL, WAHerb	<i>Acacia desertorum</i> var. <i>nudipes</i>	Fabaceae	P3	Yellow sand, lateritic gravel. Sandplains, flats.	August to October	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2013.	Possible	Large number of individuals recorded during MRWA and other proponent surveys within and adjacent to the Permit Area.	Possible
TPFL, WAHerb	<i>Acacia epedunculata</i>	Fabaceae	P1	Yellow sand. Sandplains.	August	Shrub	Habitat may be present, 10 records within 40 km, most recent in 2011.	Possible	Not recorded during MRWA or other proponent surveys in vicinity of MP_62 Permit Area.	Unlikely
WAHerb	<i>Allocasuarina eriochlamys</i> subsp. <i>grossa</i>	Casuarinaceae	P3	Stony loam, laterite clay. Granite outcrops.	Unknown	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1966.	Unlikely	Not recorded during MRWA or other proponent surveys in vicinity of MP_62 Permit Area.	Unlikely
TPFL, WAHerb	<i>Banksia lullfitzii</i>	Proteaceae	P3	Yellow sand. Sandplains.	March to May	Shrub	Habitat may be present, 6 records within 40 km, most recent in 2019.	Possible	Recorded during MRWA surveys, however not in the vicinity of MP_62. Not recorded during survey of Permit Area MP_60 by GHD (2016b)	Unlikely
TPFL, WAHerb	<i>Bossiaea celata</i>	Fabaceae	P3	Deep sand. Open mallee.	September to October	Shrub	Habitat may be present, 16 records within 40 km, most recent in 2000.	Possible	Not recorded in MP_62 Permit Area by GHD (2016b). Recorded during MRWA surveys in vicinity of Permit Area.	Possible
WAHerb	<i>Bossiaea concinna</i>	Fabaceae	P3	White or red sand, gravel.	June to September	Shrub	Habitat may be present, 5 records within 40 km, most recent in 1998.	Possible	Not recorded during MRWA or other proponent surveys in vicinity of MP_62 Permit Area.	Unlikely
WAHerb	<i>Chrysocephalum apiculatum</i> subsp. <i>norsemanense</i>	Asteraceae	P3	Yellow or red sand, yellow sandy clay, and calcareous soil.	September to November	Perennial herb	Habitat may be present, 1 record within 40 km, most recent in 1989.	Possible	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Cryptandra crispula</i>	Rhamnaceae	P3	Brown sandy clay, yellow loamy sand, red soil, pebbles. Dune ridges, hills, near salt lakes.	July to September	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1974.	Unlikely	Not recorded in MP_62 Permit Area by GHD (2016b). Not recorded during MRWA surveys within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Cryptandra polyclada</i> subsp. <i>aequabilis</i>	Rhamnaceae	P1	Sand.	October	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2014.	Possible	Not recorded in MP_62 Permit Area by GHD (2016b). Survey undertaken during the reported flowering period	Unlikely
TPFL, WAHerb	<i>Cyathostemon verrucosus</i>	Myrtaceae	P3	Unknown	Unknown	Shrub	Habitat may be present, 7 records within 40 km, most recent in 2003.	Possible	Not recorded in MP_62 Permit Area by GHD (2016b) and not noted as having suitable habitat. Survey was undertaken during the reported flowering season (GHD 2016b).	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
									Not recorded during MRWA surveys within vicinity of the Permit Area.	
TPFL, WAHerb	<i>Daviesia sarissa</i> subsp. <i>redacta</i>	Fabaceae	P2	Yellow sand. Plains.	September	Shrub	Habitat may be present, 7 records within 40 km, most recent in 2018.	Possible	Not recorded in MP_62 Permit Area by GHD (2016b), although suitable habitat occurs.  Species is not cryptic and survey was undertaken during the reported flowering period.  Not recorded during MRWA surveys within the vicinity of the Permit Area.	Unlikely
WAHerb	<i>Eremophila microphylla</i>	Scrophulariaceae	P3	Clay loam.	Unknown	Shrub	Habitat may be present, 11 records within 40 km, most recent in 2017.	Possible	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Eremophila veronica</i>	Scrophulariaceae	P3	Stony clay, clay loam. Lateritic breakaways.	April to May	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1979.	Unlikely	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Eucalyptus exigua</i>	Myrtaceae	P3	Sandy loam, white sand. Sandplains.	March	Mallee	Habitat may be present, 2 records within 40 km, most recent in 2001.	Possible	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Eucalyptus frenchiana</i>	Myrtaceae	P3	Gently rising ground, on sandy loam or clay loam soils.	Unknown	Mallet	Habitat may be present, 1 record within 40 km, most recent in 1995.	Possible	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Eucalyptus urna</i> subsp. <i>xesta</i>	Myrtaceae	P3	Level to undulating terrain or around salt lakes, in red clay-loam or gravelly clay overlying limestone	Unknown	Mallet	Habitat unlikely to be present, 6 records within 40 km, most recent in 2023.	Unlikely	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Gastrolobium graniticum</i>	Fabaceae	T	Sand, sandy loam, granite. Margins of rock outcrops, along drainage lines.	August to September	Shrub	Habitat unlikely to be present, 46 records within 40 km, most recent in 2023	Unlikely	Not recorded in MP_62 Permit Area by GHD (2016b) with no suitable habitat occurring within the survey area.  Not recorded during MRWA surveys within the vicinity of the Permit Area	Unlikely
TPFL, WAHerb	<i>Gastrolobium semiteres</i>	Fabaceae	P3	Deep yellow sand, yellow to brown sandy clay, gravel, granite. Broad sand dunes, around rocks, undulating plains.	August to October	Shrub	Habitat may be present, 9 records within 40 km, most recent in 1999.	Possible	Not recorded within MP_62 Permit Area by GHD (2016b).  Not recorded by MRWA surveys within vicinity of the Permit Area.  Species not cryptic and surveys conducted during recorded flowering period.	Unlikely
WAHerb	<i>Gompholobium cinereum</i>	Fabaceae	P3	Yellow sand, clayey sand, brown loam, sandy gravel, laterite. Well-drained open sites, slopes, plains, roadsides.	Unknown	Shrub	Habitat likely to be present, 1 record/s within 40 km, some records within 20 - 40 km, most recent in 1947	Unlikely	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
WAHerb	<i>Grammosolen odgersii</i> subsp. <i>odgersii</i>	Solanaceae	P2	Red or yellow sand.	July to October	Shrub	Habitat may be present, 5 records within 40 km, most recent in 1979.	Unlikely	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Isoetes brevicula</i>	Isoetaceae	P3	Submerged in rock pools on granitic outcrops.	0	0	Habitat not present, 1 record within 40 km, most recent in 2011.	Highly Unlikely	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Lepidosperma lyonsii</i>	Cyperaceae	P1	Pale orange skeletal sandy loam with banded ironstone gravel & rock, well-drained shallow stony loamy with quartz. Gentle hill slopes, upper slopes of large hill.	September to October	Sedge	Habitat not present, 1 record within 40 km, most recent in 2012.	Unlikely	Recorded by other proponent in the vicinity of Permit Area (Phoenix 2021b).	Possible
TPFL, WAHerb	<i>Lepidosperma</i> sp. Pigeon Rocks (H. Pringle 30237)	Cyperaceae	P3	Rocky substrates	Unknown	Sedge	Habitat may be present, 1 record within 40 km, most recent in 2019.	Possible	Not recorded during MRWA surveys of the Permit Area and within the vicinity.	Possible
TPFL, WAHerb	<i>Leucopogon</i> sp. Yellowdine (M. Hislop & F. Hort MH 3194)	Ericaceae	P2	Flat. Moist yellow sand. Burnt >5	Unknown	Shrub	Habitat may be present, 5 records within 40 km, most recent in 2014.	Possible	Recorded during MRWA and other proponent surveys within vicinity of Permit Area.	Possible
WAHerb	<i>Melaleuca macrorychia</i> subsp. <i>trygonoides</i>	Myrtaceae	P3	Sandy soils. Granite outcrops.	August to October	Shrub	Habitat may be present, 4 records within 40 km, most recent in 1988.	Unlikely	Not recorded during MRWA or other proponent surveys within vicinity of Permit Area.	Unlikely
WAHerb	<i>Melichrus</i> sp. Coolgardie (K.R. Newbey 8698)	Ericaceae	P1	Unknown	Unknown	Shrub	Habitat may be present, 19 records within 40 km, most recent in 2020.	Possible	Not recorded with MP_62 Permit Area by GHD (2016b) although suitable habitat occurs. Not recorded in MRWA or other proponent surveys within vicinity of Permit Area.	Possible
TPFL, WAHerb	<i>Myriophyllum petraeum</i>	Haloragaceae	P4	Strictly confined to ephemeral rock pools on granite outcrops.	August to December	Aquatic herb	Habitat not present, 5 records within 40 km, most recent in 2011.	Highly Unlikely	Not recorded within MP_62 Permit Area by GHD (2016b) and deemed unlikely to occur with no suitable habitat.	Highly Unlikely
WAHerb	<i>Phebalium</i> sp. Yerilgee Sandplain (J. Jackson 223)	Rutaceae	P2	Unknown	August	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2020.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Philotheca pachyphylla</i>	Rutaceae	P1	Sand, red loam, clay loam. Sandplains, hill tops.	May to September	Shrub	Habitat may be present, 6 records within 40 km, most recent in 1997.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Phlegmatospermum eremaum</i>	Brassicaceae	P3	Stony loam.	August to October	Annual herb	Habitat may be present, 1 record within 40 km, most recent in 1900.	Unlikely	Not recorded within the Permit Area by GHD (2016b) and no suitable habitat occurs. Not recorded during MRWA or other proponent surveys within the vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Rinzia triplex</i>	Myrtaceae	P3	Yellow to orange sandy loam with laterite gravel. Gently undulating sandplains, low ridges, road verges.	June	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2019.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of occurrence
WAHerb	<i>Sowerbaea multicaulis</i>	Asparagaceae	P4	Yellow-brown sand.	October to January	Perennial herb	Habitat may be present, 2 records within 40 km, most recent in 1891 (as per WAHerb records).	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Stackhousia muricata</i> subsp. Perennial (W.R. Barker 3641)	Celastraceae	P3	In sands or loams often with rocks or gravel.	July to November	Perennial herb	Habitat may be present, 6 records within 40 km, most recent in 2011.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
TPFL, WAHerb	<i>Stylidium choreanthum</i>	Stylidiaceae	P3	White/yellow or red sand. Plains.	September to November	Perennial herb	Habitat may be present, 1 record within 40 km, most recent in 1955.	Unlikely	Not recorded in MP_62 Permit Area by GHD (2016b).	Unlikely
TPFL, WAHerb	<i>Styphelia saxicola</i>	Ericaceae	P3	Shallow soils on rocky sites with a lateritic, granitic or ironstone geology	April to September	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2013.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely
WAHerb	<i>Thysanotus</i> sp. Yellowdine (A.S. George 6040)	Asparagaceae	P2	Yellow sand over gravel.	Unknown	Annual herb	Habitat may be present, 3 records within 40 km, most recent in 2014.	Possible	Not recorded during MRWA or other proponent surveys of the Permit Area and within the vicinity.	Unlikely

## 6.1.10 MP 63 Area (Plan 6952/1k)

Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of Occurrence
WAHerb	<i>Acacia coatesii</i>	Fabaceae	P1	Shallow, red sandy clay on flat or gently sloping ground towards the base of a low greenstone ridge.	September to October	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2013.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Acacia crenulata</i>	Fabaceae	P3	Clay, sandy clay, yellow sand. Rocky rises, granite outcrops, breakaways.	Unknown	Shrub	Habitat unlikely to be present, 8 records within 40 km, most recent in 2014.	Highly Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Acacia cylindrica</i>	Fabaceae	P3	Yellow/brown sand, gravelly soils. Undulating plains, flats.	August to October	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2013.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Acacia desertorum</i> var. <i>nudipes</i>	Fabaceae	P3	Yellow sand, lateritic gravel. Sandplains, flats.	August to October	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2013.	Possible	Recorded during surveys by MRWA along GEH, however not within the vicinity of MP_63 Permit Area.	Possible
TPFL, WAHerb	<i>Acacia epedunculata</i>	Fabaceae	P1	Yellow sand. Sandplains.	August	Shrub	Habitat may be present, 10 records within 40 km, most recent in 2011.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Acacia sclerophylla</i> var. <i>teretiuscula</i>	Fabaceae	P1	Clay & loamy soils.	September to October	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1968.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Acacia websteri</i>	Fabaceae	P1	Red sand, clay or loam. Low-lying areas, flats.	Unknown	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2004.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Allocasuarina eriochlamys</i> subsp. <i>grossa</i>	Casuarinaceae	P3	Stony loam, laterite clay. Granite outcrops.	Unknown	Shrub	Habitat may be present, 2 records within 40 km, most recent in 1966.	Unlikely	Not recorded by GHD (2016c) and no suitable habitat occurs.	Unlikely
WAHerb	<i>Austrostipa frankliniae</i>	Poaceae	P2	Unknown	Unknown	Perennial grass	Habitat may be present, 1 record within 40 km, most recent in 2011.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Austrostipa turbinata</i>	Poaceae	P3	Loams and clays	September to October	Perennial grass	Habitat may be present, 1 record within 40 km, most recent in 2011.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Banksia lullfitzii</i>	Proteaceae	P3	Yellow sand. Sandplains.	March to May	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1973.	Unlikely	Recorded during MRWA survey however not within the vicinity of MP_63 Permit Area	Unlikely
TPFL, WAHerb	<i>Bossiaea celata</i>	Fabaceae	P3	Deep sand. Open mallee.	September to October	Shrub	Habitat may be present, 6 records within 40 km, most recent in 2000.	Possible	Large number of individuals recorded within and in the vicinity of the Permit Area during surveys by MRWA.	Possible
WAHerb	<i>Bossiaea concinna</i>	Fabaceae	P3	White or red sand, gravel.	June to September	Shrub	Habitat may be present, 5 records within 40 km, most recent in 1998.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Cryptandra crispula</i>	Rhamnaceae	P3	Brown sandy clay, yellow loamy sand, red soil, pebbles. Dune ridges, hills, near salt lakes.	July to September	Shrub	Habitat may be present, 2 records within 40 km, most recent in 1993.	Possible	Recorded during MRWA survey however not within the vicinity of MP_63 Permit Area	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of Occurrence
TPFL, WAHerb	<i>Cryptandra polyclada</i> subsp. <i>aequabilis</i>	Rhamnaceae	P1	Sand.	October	Shrub	Habitat may be present, 1 records within 40 km, most recent in 2014.	Possible	Not recorded by GHD (2016c) within the Permit Area.  Species is not cryptic.	Unlikely
TPFL, WAHerb	<i>Cyathostemon verrucosus</i>	Myrtaceae	P3	Unknown	Unknown	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2004.	Possible	Not recorded in MP_63 Permit Area by GHD (2016c).  Species can be cryptic.	Possible
TPFL, WAHerb	<i>Daviesia sarissa</i> subsp. <i>redacta</i>	Fabaceae	P2	Yellow sand. Plains.	September	Shrub	Habitat may be present, 1 records within 40 km, most recent in 2018.	Possible	Recorded during surveys by Botanica (2023) within the vicinity of MP_63 Permit Area.	Possible
WAHerb	<i>Eremophila microphylla</i>	Scrophulariaceae	P3	Clay loam.	Unknown	Shrub	Habitat may be present, 12 records within 40 km, most recent in 2017.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Eremophila veronica</i>	Scrophulariaceae	P3	Stony clay, clay loam. Lateritic breakaways.	April to May	Shrub	Habitat may be present, 9 records within 40 km, most recent in 2017.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Eucalyptus exigua</i>	Myrtaceae	P3	Sandy loam, white sand. Sandplains.	March	Mallee	Habitat may be present, 2 records within 40 km, most recent in 2001.	Possible	Not recorded by GHD (2016c).  Species is not cryptic and given the intensity of survey would have been identified during the field survey (GHD 2016c).	Unlikely
WAHerb	<i>Eucalyptus frenchiana</i>	Myrtaceae	P3	Gently rising ground, on sandy loam or clay loam soils.	Unknown	Mallet	Habitat may be present, 2 records within 40 km, most recent in 2013.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Eucalyptus urna</i> subsp. <i>xesta</i>	Myrtaceae	P3	Level to undulating terrain or around salt lakes, in red clay-loam or gravelly clay overlying limestone	Unknown	Mallet	Habitat unlikely to be present, 4 records within 40 km, most recent in 2023.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Eucalyptus websteriana</i> subsp. <i>norsemanica</i>	Myrtaceae	P1	Rocky sites.	July to September	Mallee	Habitat may be present, 2 records within 40 km, most recent in 2015.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Gastrolobium graniticum</i>	Fabaceae	T	Sand, sandy loam, granite. Margins of rock outcrops, along drainage lines.	August to September	Shrub	Habitat not present, 48 records within 40 km, most recent in 2023.	Highly Unlikely	Not recorded by GHD (2016c) and no suitable habitat occurs.	Highly Unlikely
TPFL, WAHerb	<i>Gastrolobium semiteres</i>	Fabaceae	P3	Deep yellow sand, yellow to brown sandy clay, gravel, granite. Broad sand dunes, around rocks, undulating plains.	August to October	Shrub	Habitat may be present, 7 records within 40 km, most recent in 1999.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Gompholobium cinereum</i>	Fabaceae	P3	Yellow sand, clayey sand, brown loam, sandy gravel, laterite. Well-drained open sites, slopes, plains, roadsides.	Unknown	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1947.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Grammosolen odgersii</i> subsp. <i>odgersii</i>	Solanaceae	P2	Red or yellow sand.	July to October	Shrub	Habitat may be present, 5 records within 40 km, most recent in 1979.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Hakea rigida</i>	Proteaceae	P2	Sandy soils, yellow sand.	September to October	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2012.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of Occurrence
									A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	
WAHerb	<i>Hibbertia pachyphylla</i>	Dilleniaceae	P3	White to yellow sand, brown sandy gravel, gravelly loam, laterite, granite, quartz. Undulating plains, low rises, valley floors.	September to November	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1966.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area. A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Unlikely
WAHerb	<i>Isoetes brevicula</i>	Isoetaceae	P3	Submerged in rock pools on granitic outcrops.	0	0	Habitat not present, 1 record within 40 km, most recent in 2011.	Highly Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area. A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Highly Unlikely
TPFL, WAHerb	<i>Lepidosperma lyonsii</i>	Cyperaceae	P1	Pale orange skeletal sandy loam with banded ironstone gravel & rock, well-drained shallow stony loamy with quartz. Gentle hill slopes, upper slopes of large hill.	September to October	Sedge	Habitat not present, 1 record within 40 km, most recent in 2012.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area. A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Unlikely
WAHerb	<i>Lepidosperma</i> sp. Kambalda (A.A. Mitchell 5156)	Cyperaceae	P2	Rocky substrates	Unknown	Sedge	Habitat may be present, 1 record within 40 km, most recent in 2013.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Lepidosperma</i> sp. Pigeon Rocks (H. Pringle 30237)	Cyperaceae	P3	Rocky substrates	Unknown	Sedge	Habitat may be present, 1 record within 40 km, most recent in 2019.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area. A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Unlikely
TPFL, WAHerb	<i>Leucopogon</i> sp. Yellowdine (M. Hislop & F. Hort MH 3194)	Ericaceae	P2	Flat. Moist yellow sand. Burnt >5	Unknown	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2014.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Melaleuca macronychia</i> subsp. <i>trygonoides</i>	Myrtaceae	P3	Sandy soils. Granite outcrops.	August to October	Shrub	Habitat may be present, 4 records within 40 km, most recent in 1988.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area. A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Unlikely
WAHerb	<i>Melichrus</i> sp. Coolgardie (K.R. Newbey 8698)	Ericaceae	P1	Unknown	Unknown	Shrub	Habitat may be present, 16 records within 40 km, most recent in 2020.	Possible	Recorded by GHD (2016c) within the Permit Area.	Recorded 2016

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of Occurrence
TPFL, WAHerb	<i>Myriophyllum petraeum</i>	Haloragaceae	P4	Strictly confined to ephemeral rock pools on granite outcrops.	August to December	Aquatic herb	Habitat not present, 5 records within 40 km, most recent in 2011.	Highly Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Notisia intonsa</i>	Asteraceae	P3	Red/brown clay, stony saline loam.	September to October	Annual herb	Habitat may be present, 3 records within 40 km, most recent in 1986.	Unlikely	Recorded by Botanica (2024) within the vicinity of the Permit Area.	Possible
WAHerb	<i>Phebalium drummondii</i>	Rutaceae	P3	Gravelly sandy or clayey soils. Flats, roadsides.	July to September	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2016.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.  A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Unlikely
WAHerb	<i>Phebalium</i> sp. Yerilgee Sandplain (J. Jackson 223)	Rutaceae	P2	Unknown	August	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2020.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Possible
WAHerb	<i>Philotheca pachyphylla</i>	Rutaceae	P1	Sand, red loam, clay loam. Sandplains, hill tops.	May to September	Shrub	Habitat may be present, 6 records within 40 km, most recent in 1997.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.  A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Unlikely
WAHerb	<i>Phlegmatospermum eremaeum</i>	Brassicaceae	P3	Stony loam.	August to October	Annual herb	Habitat may be present, 1 record within 40 km, most recent in 1900.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Rinzia triplex</i>	Myrtaceae	P3	Yellow to orange sandy loam with laterite gravel. Gently undulating sandplains, low ridges, road verges.	June	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2019.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.  A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Unlikely
WAHerb	<i>Sowerbaea multicaulis</i>	Asparagaceae	P4	Yellow-brown sand.	October to January	Perennial herb	Habitat may be present, 2 records within 40 km, most recent in 1891 (as per WAHerb records).	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.  Botanica (2024) noted this species as having a widespread scattered range.	Possible
WAHerb	<i>Stackhousia muricata</i> subsp. Perennial (W.R. Barker 3641)	Celastraceae	P3	In sands or loams often with rocks or gravel.	July to November	Perennial herb	Habitat may be present, 7 records within 40 km, most recent in 2011.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of Occurrence
									Species is not considered cryptic and the GHD (2016c) survey of Permit Area occurred within the appropriate flowing season.	
TPFL, WAHerb	<i>Stylidium choreanthum</i>	Stylidiaceae	P3	White/yellow or red sand. Plains.	September to November	Perennial herb	Habitat may be present, 2 records within 40 km, most recent in 1975.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Styphelia saxicola</i>	Ericaceae	P3	Shallow soils on rocky sites with a lateritic, granitic or ironstone geology	April to September	Shrub	Habitat unlikely to be present, 2 records within 40 km, most recent in 2013	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.  A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Unlikely
WAHerb	<i>Thryptomene planiflora</i>	Myrtaceae	P1	Plains, with yellow or brown to red sandy soils	June to October	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2004.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.  A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Unlikely
WAHerb	<i>Thysanotus</i> sp. Yellowdine (A.S. George 6040)	Asparagaceae	P2	Yellow sand over gravel.	Unknown	Annual herb	Habitat may be present, 2 records within 40 km, most recent in 2014.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely

## 6.1.11 MP 64 Area (Plan 6952/1)

Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of Occurrence
WAHerb	<i>Acacia coatesii</i>	Fabaceae	P1	Shallow, red sandy clay on flat or gently sloping ground towards the base of a low greenstone ridge.	September to October	Shrub	Habitat may be present, 5 records within 40 km, most recent in 2013.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Acacia crenulata</i>	Fabaceae	P3	Clay, sandy clay, yellow sand. Rocky rises, granite outcrops, breakaways.	Unknown	Shrub	Habitat may be present, 8 records within 40 km, most recent in 2014.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Acacia desertorum</i> var. <i>nudipes</i>	Fabaceae	P3	Yellow sand, lateritic gravel. Sandplains, flats.	August to October	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2013.	Possible	Recorded during surveys by MRWA along GEH, however not within the vicinity of MP_64 Permit Area.	Possible
TPFL, WAHerb	<i>Acacia epedunculata</i>	Fabaceae	P1	Yellow sand. Sandplains.	August	Shrub	Habitat may be present, 10 records within 40 km, most recent in 2011.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Acacia sclerophylla</i> var. <i>teretiuscula</i>	Fabaceae	P1	Clay & loamy soils.	September to October	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1968.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Acacia websteri</i>	Fabaceae	P1	Red sand, clay or loam. Low-lying areas, flats.	Unknown	Shrub	Habitat may be present, 12 records within 40 km, most recent in 2004.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Allocasuarina eriochlamys</i> subsp. <i>grossa</i>	Casuarinaceae	P3	Stony loam, laterite clay. Granite outcrops.	Unknown	Shrub	Habitat may be present, 2 records within 40 km, most recent in 1966.	Unlikely	Not recorded by GHD (2016c) and no suitable habitat occurs.	Unlikely
WAHerb	<i>Austrostipa frankliniae</i>	Poaceae	P2	Unknown	Unknown	Perennial grass	Habitat may be present, 2 records within 40 km, most recent in 2011	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Austrostipa turbinata</i>	Poaceae	P3	Loams and clays	September to October	Perennial grass	Habitat may present, 1 record within 40 km, most recent in 2011.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Bossiaea celata</i>	Fabaceae	P3	Deep sand. Open mallee.	September to October	Shrub	Habitat may be present, 6 records within 40 km, most recent in 2000.	Possible	Large number of individuals recorded within and in the vicinity of the Permit Area during surveys by MRWA.	Possible
WAHerb	<i>Bossiaea concinna</i>	Fabaceae	P3	White or red sand, gravel.	June to September	Shrub	Habitat may be present, 5 records within 40 km, most recent in 1998.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Calytrix creswellii</i>	Myrtaceae	P3	Yellow sand, sometimes with lateritic gravel. Sandplains.	September to December	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1981.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Cryptandra crispula</i>	Rhamnaceae	P3	Brown sandy clay, yellow loamy sand, red soil, pebbles. Dune ridges, hills, near salt lakes.	July to September	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1974.	Unlikely	Recorded during MRWA survey however not within the vicinity of MP_66 Permit Area	Unlikely
TPFL, WAHerb	<i>Cyathostemon verrucosus</i>	Myrtaceae	P3	Unknown	Unknown	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1966.	Possible	Not recorded in MP_64 Permit Area by GHD (2016c). Species can be cryptic	Possible
WAHerb	<i>Eremophila microphylla</i>	Scrophulariaceae	P3	Clay loam.	Unknown	Shrub	Habitat may be present, 12 records within 40 km, most recent in 2017.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of Occurrence
WAHerb	<i>Eremophila veronica</i>	Scrophulariaceae	P3	Stony clay, clay loam. Lateritic breakaways.	April to May	Shrub	Habitat may be present, 9 records within 40 km, most recent in 2017.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Eucalyptus exigua</i>	Myrtaceae	P3	Sandy loam, white sand. Sandplains.	March	Mallee	Habitat may be present, 2 records within 40 km, most recent in 2001.	Possible	Not recorded by GHD (2016c). Species is not cryptic and given the intensity of survey would have been identified during the field survey (GHD 2016c).	Unlikely
WAHerb	<i>Eucalyptus frenchiana</i>	Myrtaceae	P3	Gently rising ground, on sandy loam or clay loam soils.	Unknown	Mallet	Habitat may be present, 2 records within 40 km, most recent in 2013.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Eucalyptus urna</i> subsp. <i>xesta</i>	Myrtaceae	P3	Level to undulating terrain or around salt lakes, in red clay-loam or gravelly clay overlying limestone	Unknown	Mallet	Habitat unlikely to be present, 5 records within 40 km, most recent in 2023.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Eucalyptus websteriana</i> subsp. <i>norsemanica</i>	Myrtaceae	P1	Rocky sites.	July to September	Mallee	Habitat may be present, 2 records within 40 km, most recent in 2015.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Eutaxia actinophylla</i>	Fabaceae	P3	Red-brown clay loam, red clay loam over granite, gravel. Small depressions.	September to October	Shrub	Habitat may be present, 2 records within 40 km, most recent in 1994.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Gastrolobium graniticum</i>	Fabaceae	T	Sand, sandy loam, granite. Margins of rock outcrops, along drainage lines.	August to September	Shrub	Habitat unlikely to be present, 48 records within 40 km, most recent in 2023.	Unlikely	Not recorded by GHD (2016c) and no suitable habitat occurs.	Highly Unlikely
TPFL, WAHerb	<i>Gastrolobium semiteres</i>	Fabaceae	P3	Deep yellow sand, yellow to brown sandy clay, gravel, granite. Broad sand dunes, around rocks, undulating plains.	August to October	Shrub	Habitat may be present, 4 records within 40 km, most recent in 1999.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Gompholobium cinereum</i>	Fabaceae	P3	Yellow sand, clayey sand, brown loam, sandy gravel, laterite. Well-drained open sites, slopes, plains, roadsides.	Unknown	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1947.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the MP_64 Permit Area.	Unlikely
WAHerb	<i>Grammosolen odgersii</i> subsp. <i>odgersii</i>	Solanaceae	P2	Red or yellow sand.	July to October	Shrub	Habitat may be present, 5 records within 40 km, most recent in 1979.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Hakea rigida</i>	Proteaceae	P2	Sandy soils, yellow sand.	September to October	Shrub	Habitat may be present, 3 records within 40 km, most recent in 2012.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area. A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Unlikely
WAHerb	<i>Hibbertia pachyphylla</i>	Dilleniaceae	P3	White to yellow sand, brown sandy gravel, gravelly loam, laterite, granite, quartz. Undulating plains, low rises, valley floors.	September to November	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1966.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area. A survey adjacent to the Permit Area was deemed to be outside	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of Occurrence
									the known range of species (Botanica 2024)	
WAHerb	<i>Isoetes brevicula</i>	Isoetaceae	P3	Submerged in rock pools on granitic outcrops.	0	0	Habitat not present, 1 record within 40 km, most recent in 2011.	Highly Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.  A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Highly Unlikely
TPFL, WAHerb	<i>Lepidosperma lyonsii</i>	Cyperaceae	P1	Pale orange skeletal sandy loam with banded ironstone gravel & rock, well-drained shallow stony loamy with quartz. Gentle hill slopes, upper slopes of large hill.	September to October	Sedge	Habitat not present, 1 record within 40 km, most recent in 2012.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.  A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Unlikely
WAHerb	<i>Lepidosperma</i> sp. Kambalda (A.A. Mitchell 5156)	Cyperaceae	P2	Rocky substrates	Unknown	Sedge	Habitat may be present, 1 record within 40 km, most recent in 2013.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Lepidosperma</i> sp. Pigeon Rocks (H. Pringle 30237)	Cyperaceae	P3	Rocky substrates	Unknown	Sedge	Habitat may be present, 1 record within 40 km, most recent in 2019.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.  A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Unlikely
WAHerb	<i>Melaleuca macronychia</i> subsp. <i>trygonoides</i>	Myrtaceae	P3	Sandy soils. Granite outcrops.	August to October	Shrub	Habitat may be present, 5 records within 40 km, most recent in 2013.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.  A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Unlikely
WAHerb	<i>Melichrus</i> sp. Coolgardie (K.R. Newbey 8698)	Ericaceae	P1	Unknown	Unknown	Shrub	Habitat may be present, 16 records within 40 km, most recent in 2020.	Possible	Recorded in surveys within Vicinity of MP_64 Permit Area	Possible
TPFL, WAHerb	<i>Myriophyllum petraeum</i>	Haloragaceae	P4	Strictly confined to ephemeral rock pools on granite outcrops.	August to December	Aquatic herb	Habitat not present, 5 records within 40 km, most recent in 2011.	Highly Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Notisia intonsa</i>	Asteraceae	P3	Red/brown clay, stony saline loam.	September to October	Annual herb	Habitat may be present, 3 records within 40 km, most recent in 1986.	Unlikely	Recorded by Botanica (2024) within the vicinity of the Permit Area.	Possible
WAHerb	<i>Phebalium clavatum</i>	Rutaceae	P2	Sandy soils. Sandplains.	August to September	Shrub	Habitat may be present, 3 records within 40 km, most recent in 1929.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of Occurrence
WAHerb	<i>Phebalium drummondii</i>	Rutaceae	P3	Gravelly sandy or clayey soils. Flats, roadsides.	July to September	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2016.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area. A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Unlikely
WAHerb	<i>Phebalium</i> sp. Yerilgee Sandplain (J. Jackson 223)	Rutaceae	P2	Unknown	August	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2020.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Possible
WAHerb	<i>Philotheca pachyphylla</i>	Rutaceae	P1	Sand, red loam, clay loam. Sandplains, hill tops.	May to September	Shrub	Habitat may be present, 6 records within 40 km, most recent in 1997.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area. A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Unlikely
TPFL, WAHerb	<i>Rinzia triplex</i>	Myrtaceae	P3	Yellow to orange sandy loam with laterite gravel. Gently undulating sandplains, low ridges, road verges.	June	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2019.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area. A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Unlikely
WAHerb	<i>Sowerbaea multicaulis</i>	Asparagaceae	P4	Yellow-brown sand.	October to January	Perennial herb	Habitat may be present, 2 records within 40 km, most recent in 1891 (as per WAHerb records)..	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area. Botanica (2024) noted this species as having a widespread scattered range.	Possible
WAHerb	<i>Stackhousia muricata</i> subsp. Perennial (W.R. Barker 3641)	Celastraceae	P3	In sands or loams often with rocks or gravel.	July to November	Perennial herb	Habitat may be present, 7 records within 40 km, most recent in 2011.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area. Species is not considered cryptic and the GHD (2016c) survey of Permit Area occurred within the appropriate flowing season.	Unlikely
TPFL, WAHerb	<i>Stylidium choreanthum</i>	Stylidiaceae	P3	White/yellow or red sand. Plains.	September to November	Perennial herb	Habitat may be present, 1 record within 40 km, most recent in 1975.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Styphelia saxicola</i>	Ericaceae	P3	Shallow soils on rocky sites with a lateritic, granitic or ironstone geology	April to September	Shrub	Habitat may be present, 2 records within 40 km, most recent in 2013.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area. A survey adjacent to the Permit Area was	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of Occurrence
									deemed to be outside the known range of species (Botanica 2024)	
WAHerb	<i>Thryptomene planiflora</i>	Myrtaceae	P1	Plains, with yellow or brown to red sandy soils	June to October	Shrub	Habitat may be present, 1 records within 40 km, most recent in 2004.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.  A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Unlikely
WAHerb	<i>Thysanotus</i> sp. Yellowdine (A.S. George 6040)	Asparagaceae	P2	Yellow sand over gravel.	Unknown	Annual herb	Habitat may be present, 1 record within 40 km, most recent in 2014.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely

## 6.1.12 MP 66 Area (Plan 6952/1m)

Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of Occurrence
WAHerb	<i>Acacia coatesii</i>	Fabaceae	P1	Shallow, red sandy clay on flat or gently sloping ground towards the base of a low greenstone ridge.	September to October	Shrub	Habitat may be present, 5 records within 40 km, most recent in 2013.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Acacia crenulata</i>	Fabaceae	P3	Clay, sandy clay, yellow sand. Rocky rises, granite outcrops, breakaways.	Unknown	Shrub	Habitat unlikely to be present, 8 records within 40 km, most recent in 2014.	Highly Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Acacia epedunculata</i>	Fabaceae	P1	Yellow sand. Sandplains.	August	Shrub	Habitat may be present, 10 records within 40 km, most recent in 2011.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Acacia sclerophylla</i> var. <i>teretiuscula</i>	Fabaceae	P1	Clay & loamy soils.	September to October	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1968.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Acacia websteri</i>	Fabaceae	P1	Red sand, clay or loam. Low-lying areas, flats.	Unknown	Shrub	Habitat may be present, 12 records within 40 km, most recent in 2004.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Allocasuarina eriochlamys</i> subsp. <i>grossa</i>	Casuarinaceae	P3	Stony loam, laterite clay. Granite outcrops.	Unknown	Shrub	Habitat may be present, 2 records within 40 km, most recent in 1966.	Unlikely	Not recorded by GHD (2016c) and no suitable habitat occurs.	Unlikely
WAHerb	<i>Austrostipa frankliniae</i>	Poaceae	P2	Unknown	Unknown	Perennial grass	Habitat may be present, 2 records within 40 km, most recent in 2011.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Austrostipa turbinata</i>	Poaceae	P3	Loams and clays	September to October	Perennial grass	Habitat may be present, 1 record within 40 km, most recent in 2011.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Bossiaea celata</i>	Fabaceae	P3	Deep sand. Open mallee.	September to October	Shrub	Habitat may be present, 5 records within 40 km, most recent in 2000.	Possible	Large number of individuals recorded within and in the vicinity of the Permit Area during surveys by MRWA.	Possible
WAHerb	<i>Bossiaea concinna</i>	Fabaceae	P3	White or red sand, gravel.	June to September	Shrub	Habitat may be present, 5 records within 40 km, most recent in 1998.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Calytrix creswellii</i>	Myrtaceae	P3	Yellow sand, sometimes with lateritic gravel. Sandplains.	September to December	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1981.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Cryptandra crispula</i>	Rhamnaceae	P3	Brown sandy clay, yellow loamy sand, red soil, pebbles. Dune ridges, hills, near salt lakes.	July to September	Shrub	Habitat may be present, 2 records within 40 km, most recent in 1993.	Possible	Recorded during MRWA survey however not within the vicinity of MP_66 Permit Area	Unlikely
TPFL, WAHerb	<i>Cyathostemon verrucosus</i>	Myrtaceae	P3	Unknown	Unknown	Shrub	Habitat may be present, 2 records within 40 km, most recent in 1979.	Unlikely	Not recorded in MP_66 Permit Area by GHD (2016c). Species can be cryptic	Possible
WAHerb	<i>Dampiera plumosa</i>	Goodeniaceae	P1	Red sandy soils.	October	Perennial herb	Habitat may be present, 1 record within 40 km, most recent in 1900.	Highly Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Highly Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of Occurrence
WAHerb	<i>Eremophila microphylla</i>	Scrophulariaceae	P3	Clay loam.	Unknown	Shrub	Habitat may be present, 12 records within 40 km, most recent in 2017.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Eremophila veronica</i>	Scrophulariaceae	P3	Stony clay, clay loam. Lateritic breakaways.	April to May	Shrub	Habitat may be present, 9 records within 40 km, most recent in 2017.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Eucalyptus exigua</i>	Myrtaceae	P3	Sandy loam, white sand. Sandplains.	March	Mallee	Habitat may be present, 2 records within 40 km, most recent in 2001.	Possible	Not recorded by GHD (2016c). Species is not cryptic and given the intensity of survey would have been identified during the field survey (GHD 2016c).	Unlikely
WAHerb	<i>Eucalyptus frenchiana</i>	Myrtaceae	P3	Gently rising ground, on sandy loam or clay loam soils.	Unknown	Mallet	Habitat may be present, 2 records within 40 km, most recent in 2013.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Eucalyptus urna</i> subsp. <i>xesta</i>	Myrtaceae	P3	Level to undulating terrain or around salt lakes, in red clay-loam or gravelly clay overlying limestone	Unknown	Mallet	Habitat unlikely to be present, 4 records within 40 km, most recent in 2023.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Eucalyptus websteriana</i> subsp. <i>norsemanica</i>	Myrtaceae	P1	Rocky sites.	July to September	Mallee	Habitat may be present, 2 records within 40 km, most recent in 2015.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Gastrolobium graniticum</i>	Fabaceae	T	Sand, sandy loam, granite. Margins of rock outcrops, along drainage lines.	August to September	Shrub	Habitat not present, 48 records within 40 km, most recent in 2023.	Highly Unlikely	Not recorded by GHD (2016c) and no suitable habitat occurs.	Highly Unlikely
TPFL, WAHerb	<i>Gastrolobium semiteres</i>	Fabaceae	P3	Deep yellow sand, yellow to brown sandy clay, gravel, granite. Broad sand dunes, around rocks, undulating plains.	August to October	Shrub	Habitat may be present, 2 records within 40 km, most recent in 1999.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Gompholobium cinereum</i>	Fabaceae	P3	Yellow sand, clayey sand, brown loam, sandy gravel, laterite. Well-drained open sites, slopes, plains, roadsides.	Unknown	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1947.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the MP_66 Permit Area.	Unlikely
WAHerb	<i>Grammosolen odgersii</i> subsp. <i>odgersii</i>	Solanaceae	P2	Red or yellow sand.	July to October	Shrub	Habitat may be present, 5 records within 40 km, most recent in 1979.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Hakea rigida</i>	Proteaceae	P2	Sandy soils, yellow sand.	September to October	Shrub	Habitat may be present, 3 records within 40 km, most recent in 2012.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area. A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Unlikely
WAHerb	<i>Hibbertia pachyphylla</i>	Dilleniaceae	P3	White to yellow sand, brown sandy gravel, gravelly loam, laterite, granite, quartz.	September to November	Shrub	Habitat may be present, 1 record within 40 km, most recent in 1966.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of Occurrence
				Undulating plains, low rises, valley floors.					A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	
WAHerb	<i>Isoetes brevicula</i>	Isoetaceae	P3	Submerged in rock pools on granitic outcrops.	0	0	Habitat not present, 1 record within 40 km, most recent in 2011.	Highly Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area. A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Highly Unlikely
TPFL, WAHerb	<i>Lepidosperma lyonsii</i>	Cyperaceae	P1	Pale orange skeletal sandy loam with banded ironstone gravel & rock, well-drained shallow stony loamy with quartz. Gentle hill slopes, upper slopes of large hill.	September to October	Sedge	Habitat not present, 1 records within 40 km, most recent in 2012.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area. A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Unlikely
WAHerb	<i>Lepidosperma</i> sp. Kambalda (A.A. Mitchell 5156)	Cyperaceae	P2	Rocky substrates	Unknown	Sedge	Habitat may be present, 1 record within 40 km, most recent in 2013.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Melaleuca macrorychia</i> subsp. <i>trygonoides</i>	Myrtaceae	P3	Sandy soils. Granite outcrops.	August to October	Shrub	Habitat may be present, 5 records within 40 km, most recent in 2013.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area. A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Unlikely
WAHerb	<i>Melichrus</i> sp. Coolgardie (K.R. Newbey 8698)	Ericaceae	P1	Unknown	Unknown	Shrub	Habitat may be present, 16 records within 40 km, most recent in 2020.	Possible	Recorded in surveys within Vicinity of MP_64 Permit Area.	Possible
TPFL, WAHerb	<i>Myriophyllum petraeum</i>	Haloragaceae	P4	Strictly confined to ephemeral rock pools on granite outcrops.	August to December	Aquatic herb	Habitat not present, 5 records within 40 km, most recent in 2011.	Highly Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Highly Unlikely
TPFL, WAHerb	<i>Notisia intonsa</i>	Asteraceae	P3	Red/brown clay, stony saline loam.	September to October	Annual herb	Habitat may be present, 3 records within 40 km, most recent in 1986.	Possible	Recorded by Botanica (2024) within the vicinity of the Permit Area.	Possible
WAHerb	<i>Phebalium clavatum</i>	Rutaceae	P2	Sandy soils. Sandplains.	August to September	Shrub	Habitat may be present, 3 records within 40 km, most recent in 1929.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
WAHerb	<i>Phebalium drummondii</i>	Rutaceae	P3	Gravelly sandy or clayey soils. Flats, roadsides.	July to September	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2016.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area. A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Unlikely

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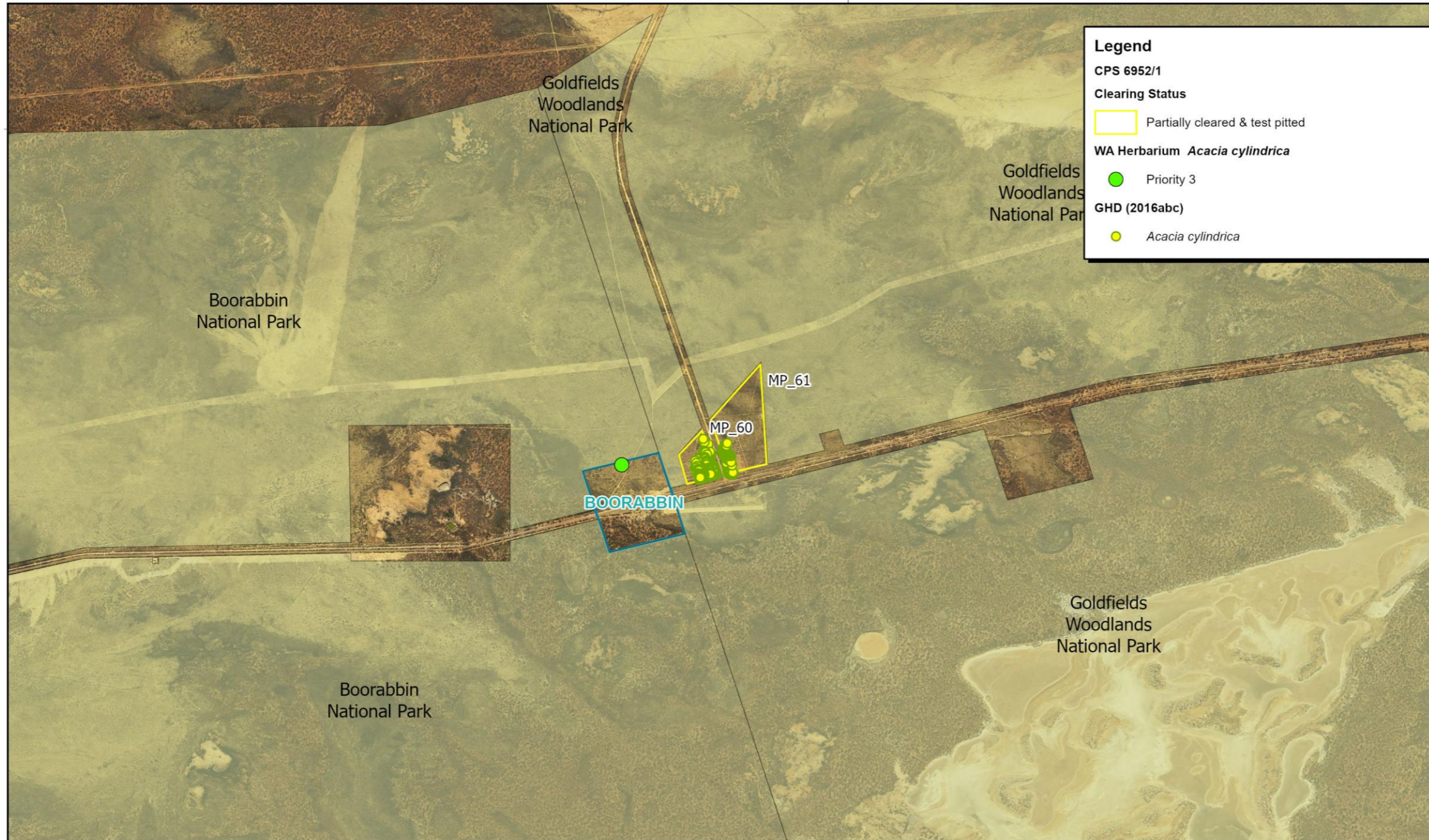
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WAHerb	<i>Phebalium</i> sp. Yerilgee Sandplain (J. Jackson 223)	Rutaceae	P2	Unknown	August	Shrub	Habitat may be present, 4 records within 40 km, most recent in 2020.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Possible
WAHerb	<i>Philotheca pachyphylla</i>	Rutaceae	P1	Sand, red loam, clay loam. Sandplains, hill tops.	May to September	Shrub	Habitat may be present, 6 records within 40 km, most recent in 1997.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area. A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Unlikely
TPFL, WAHerb	<i>Rinzia triplex</i>	Myrtaceae	P3	Yellow to orange sandy loam with laterite gravel. Gently undulating sandplains, low ridges, road verges.	June	Shrub	Habitat may be present, 3 records within 40 km, most recent in 2014.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area. A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Unlikely
WAHerb	<i>Sowerbaea multicaulis</i>	Asparagaceae	P4	Yellow-brown sand.	October to January	Perennial herb	Habitat may be present, 2 records within 40 km, most recent in 1891(as per WAHerb records).	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area. Botanica (2024) noted this species as having a widespread scattered range.	Possible
WAHerb	<i>Stackhousia muricata</i> subsp. Perennial (W.R. Barker 3641)	Celastraceae	P3	In sands or loams often with rocks or gravel.	July to November	Perennial herb	Habitat may be present, 6 records within 40 km, most recent in 2011.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area. Species is not considered cryptic and the GHD (2016c) survey of Permit Area occurred within the appropriate flowing season.	Unlikely
TPFL, WAHerb	<i>Stylidium choreanthum</i>	Stylidiaceae	P3	White/yellow or red sand. Plains.	September to November	Perennial herb	Habitat may be present, 1 record within 40 km, most recent in 1975.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area.	Unlikely
TPFL, WAHerb	<i>Styphelia saxicola</i>	Ericaceae	P3	Shallow soils on rocky sites with a lateritic, granitic or ironstone geology	April to September	Shrub	Habitat unlikely to be present, 2 records within 40 km, most recent in 2013.	Unlikely	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area. A survey adjacent to the Permit Area was deemed to be outside the known range of species (Botanica 2024)	Unlikely
WAHerb	<i>Thryptomene planiflora</i>	Myrtaceae	P1	Plains, with yellow or brown to red sandy soils	June to October	Shrub	Habitat may be present, 1 record within 40 km, most recent in 2004.	Possible	Not recorded during MRWA or other proponent surveys within and within vicinity of the Permit Area. A survey adjacent to the Permit Area was deemed to be	Unlikely

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Desktop source	Row Labels	Family	WA status	Preferred habitat	Flowering period	Growth form	Desktop Assessment	Desktop Likelihood of Occurrence	Post-Survey Desktop Assessment	Post-Survey Desktop Likelihood of Occurrence
									outside the known range of species (Botanica 2024)	

## 6.2 APPENDIX 2: FIGURES

### 6.2.1 *Acacia cylindrica* (1 of 2)



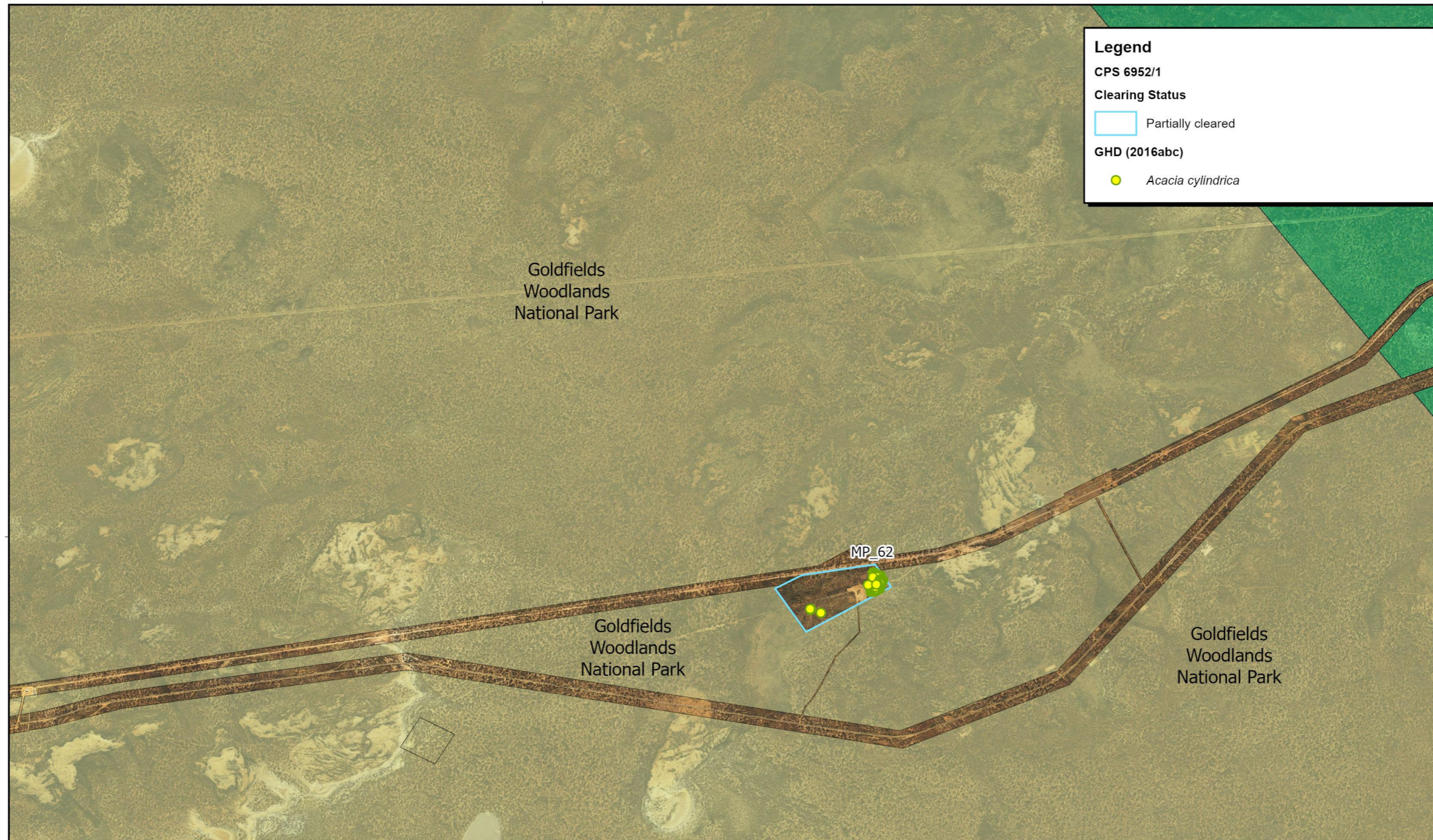
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Author: C10861

Great Eastern Highway Material Pits CPS6952/1  
***Acacia cylindrica***

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Kilometers

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6.2.2 *Acacia cylindrica* (2 of 2)



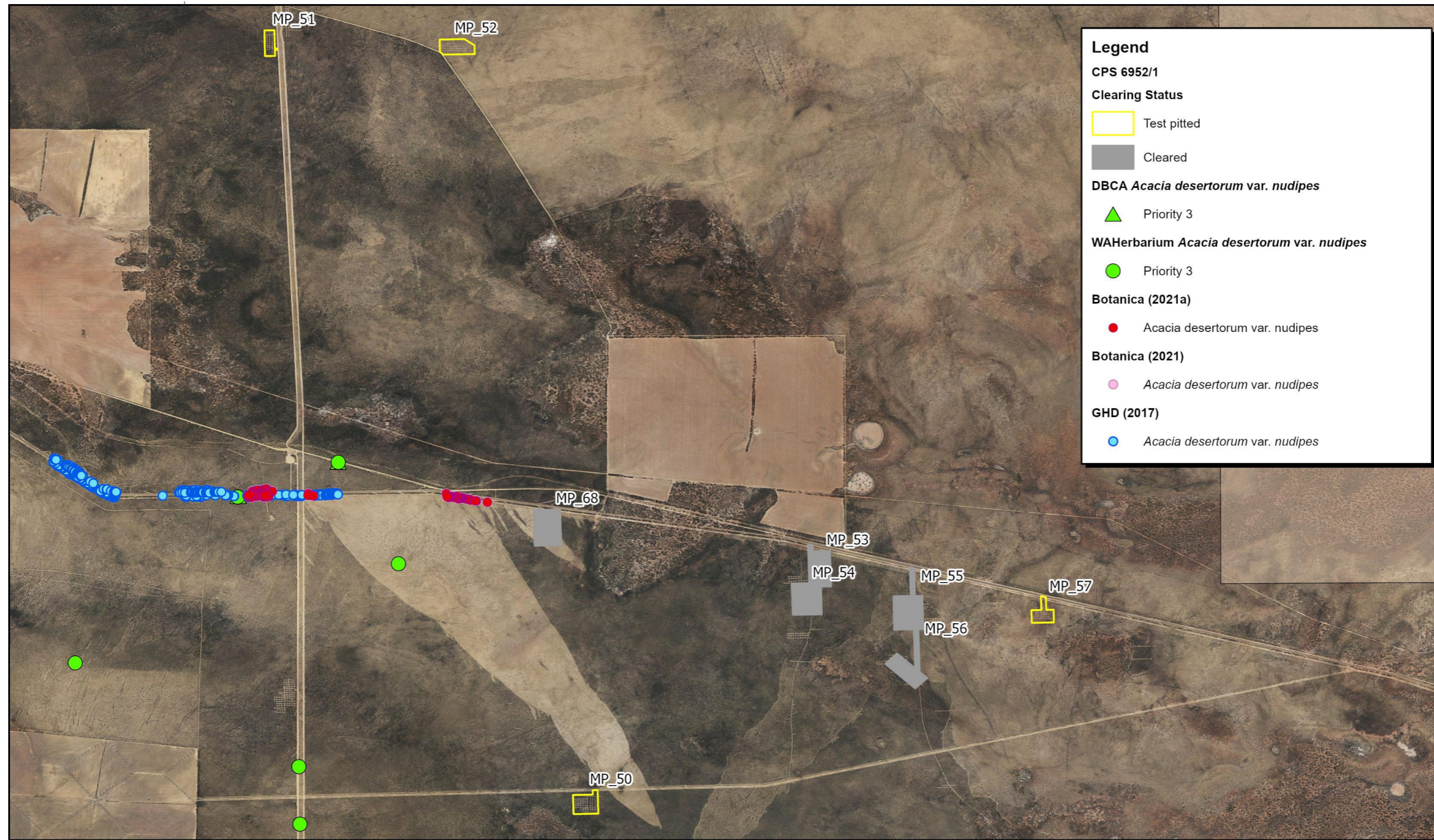
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Author: C10861

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Kilometers

Great Eastern Highway Material Pits CPS6952/1  
***Acacia cylindrica***

The bottom section of the page contains a north arrow, a scale bar from 0 to 5 kilometers, and technical details about the map's coordinate system and scale. It also features the title 'Great Eastern Highway Material Pits CPS6952/1' and the species name '*Acacia cylindrica*'. Logos for the Government of Western Australia and Mainroads Western Australia are displayed. An inset map of Western Australia in the bottom right corner shows the location of the study area in the eastern part of the state, near the Goldfields region.

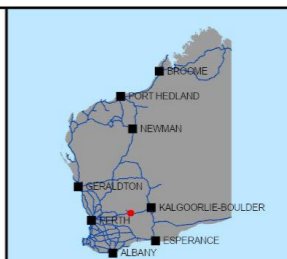
6.2.3 *Acacia desertorum* var. *nudipes* (1 of 3)



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Author: C10861

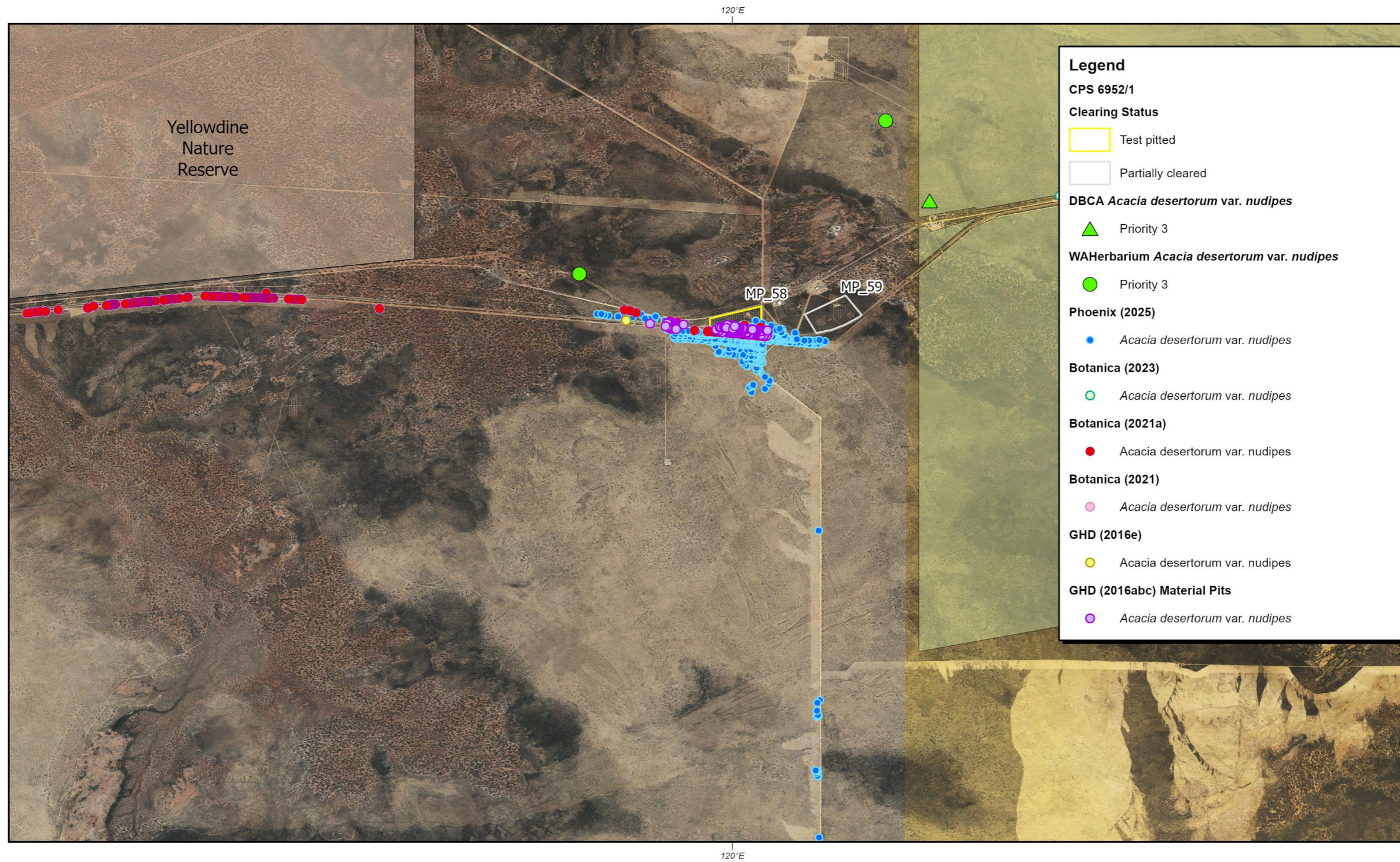
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Kilometers

Great Eastern Highway Material Pits CPS6952/1  
***Acacia desertorum* var. *nudipes***



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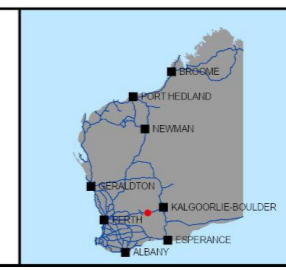
6.2.4 *Acacia desertorum* var. *nudipes* (2 of 3)



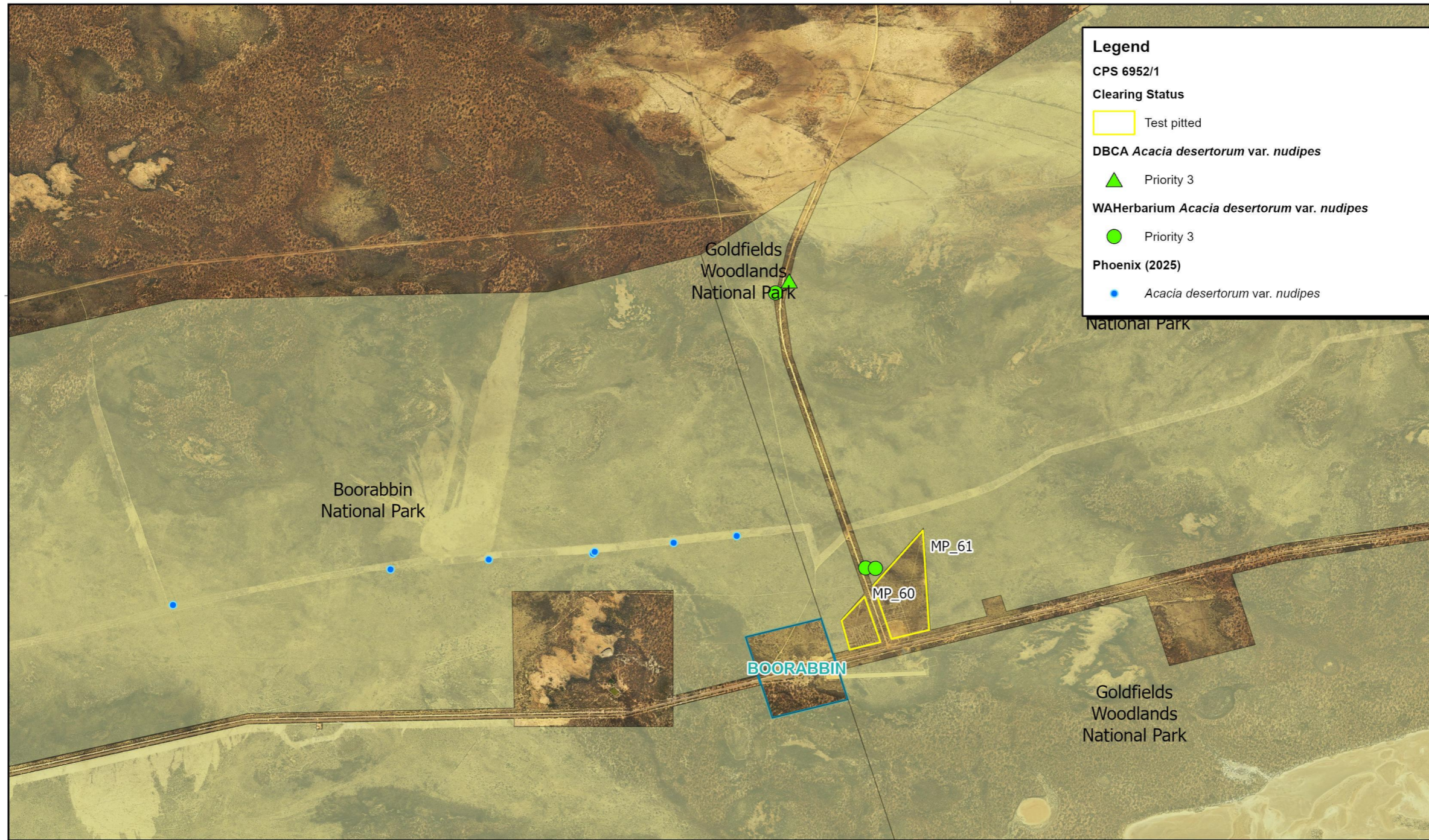
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 Author: C10861

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Kilometers

Great Eastern Highway Material Pits CPS6952/1  
*Acacia desertorum* var. *nudipes*



6.2.5 *Acacia desertorum* var. *nudipes* (3 of 3)

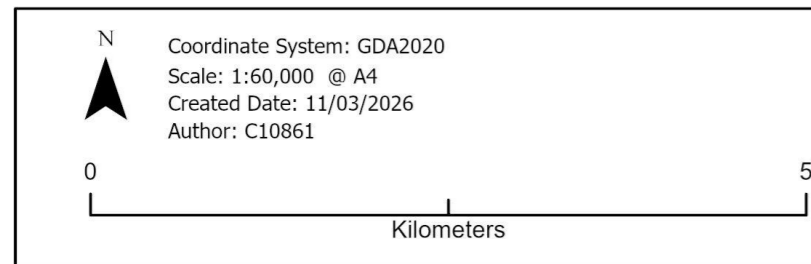
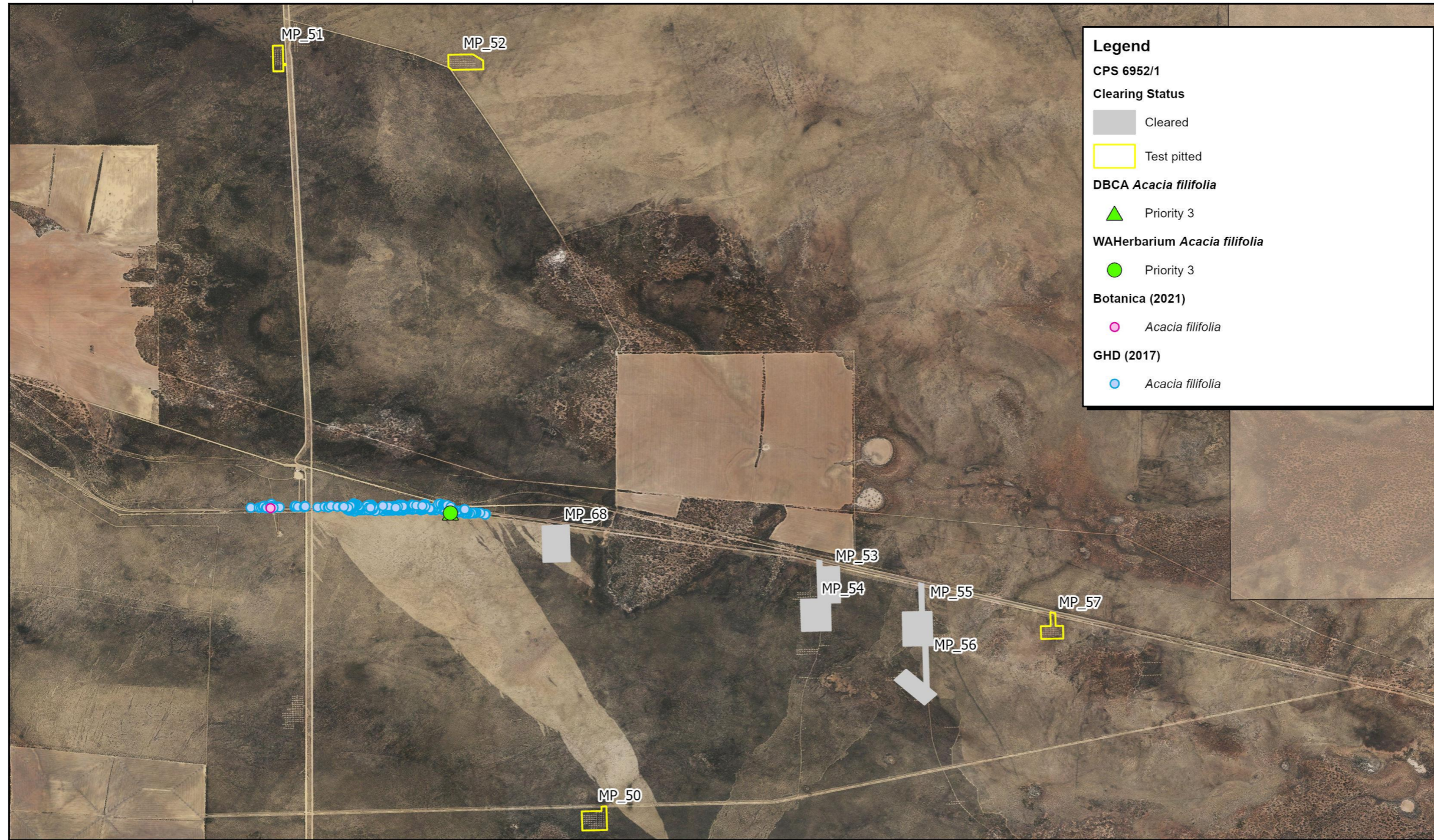


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Kilometers

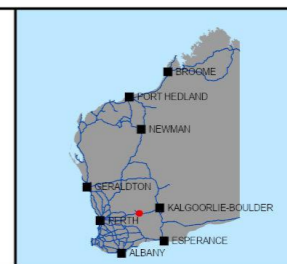
Great Eastern Highway Material Pits CPS6952/1  
***Acacia desertorum* var. *nudipes***

6.2.6 *Acacia filifolia*

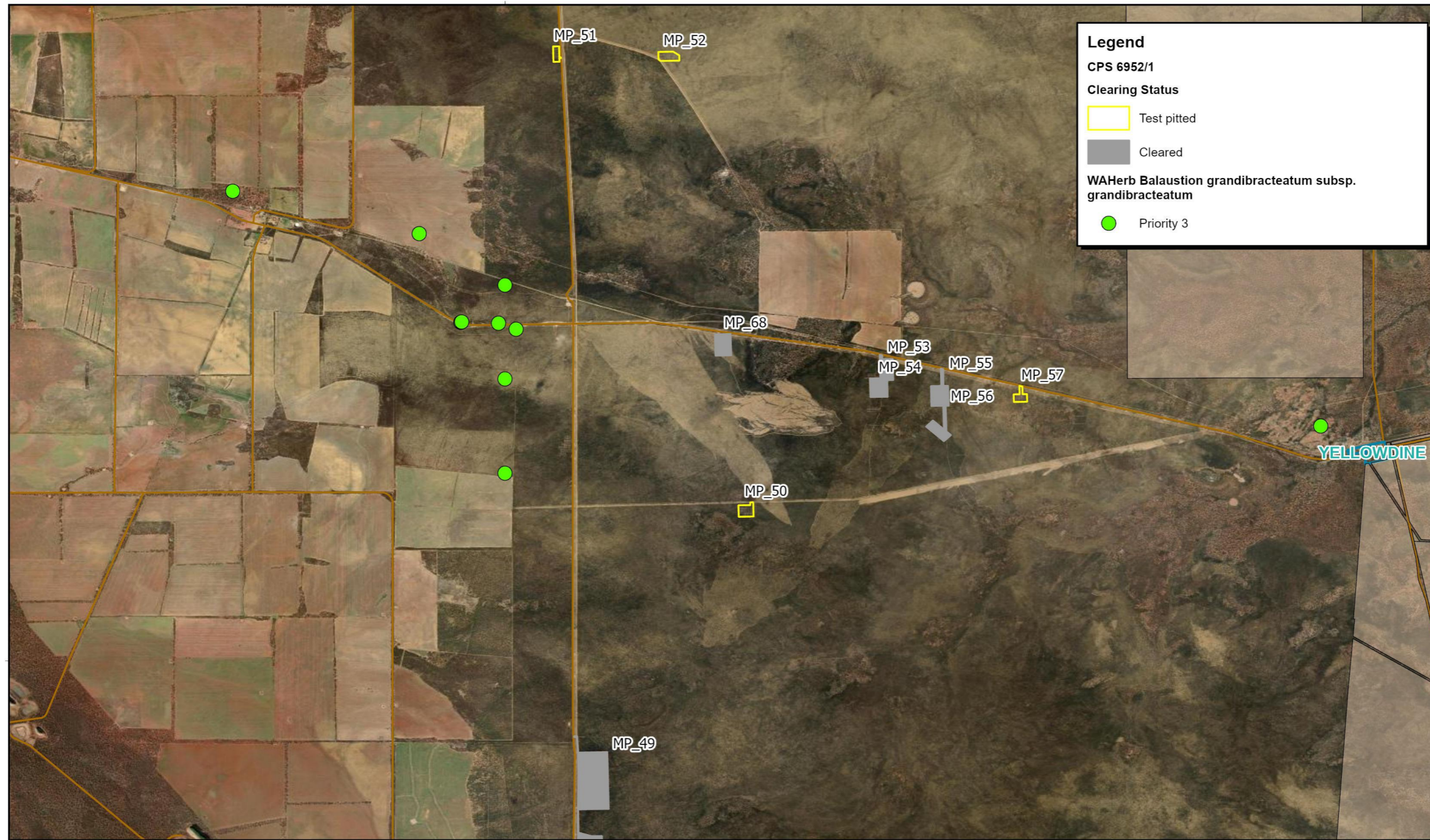


Great Eastern Highway Material Pits CPS6952/1

***Acacia filifolia***



6.2.7 *Balaustion grandibracteatum* subsp. *grandibracteatum*



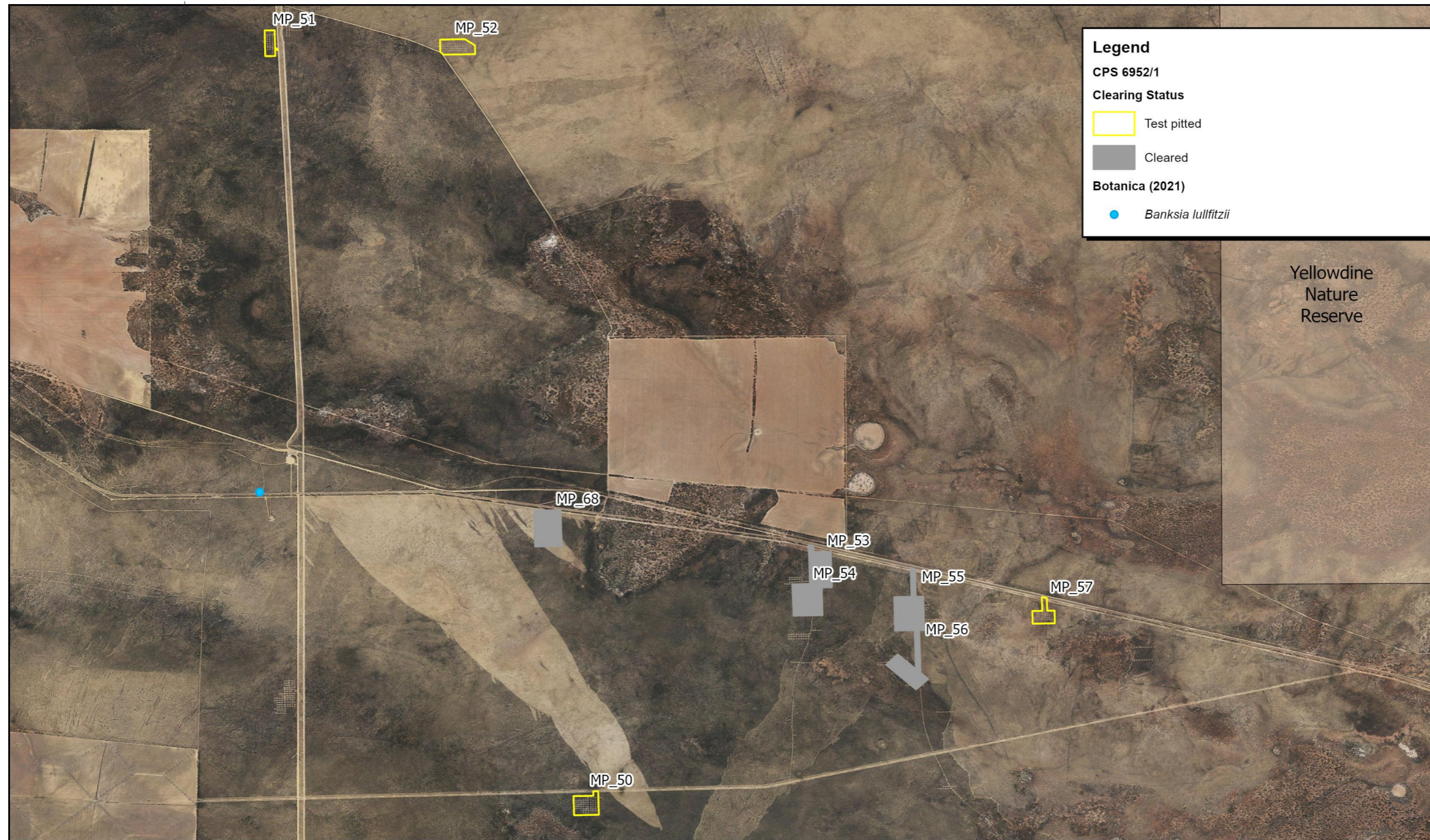
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Author: C10861

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Kilometers

Great Eastern Highway Material Pits CPS6952/1  
***Balaustion grandibracteatum* subsp. *grandibracteatum***

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6.2.8 *Banksia lullfitzii* (1 of 2)

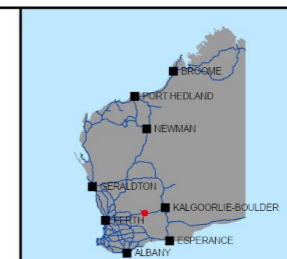


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Author: C10861

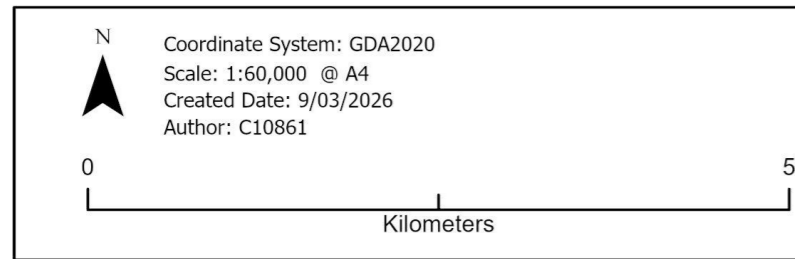
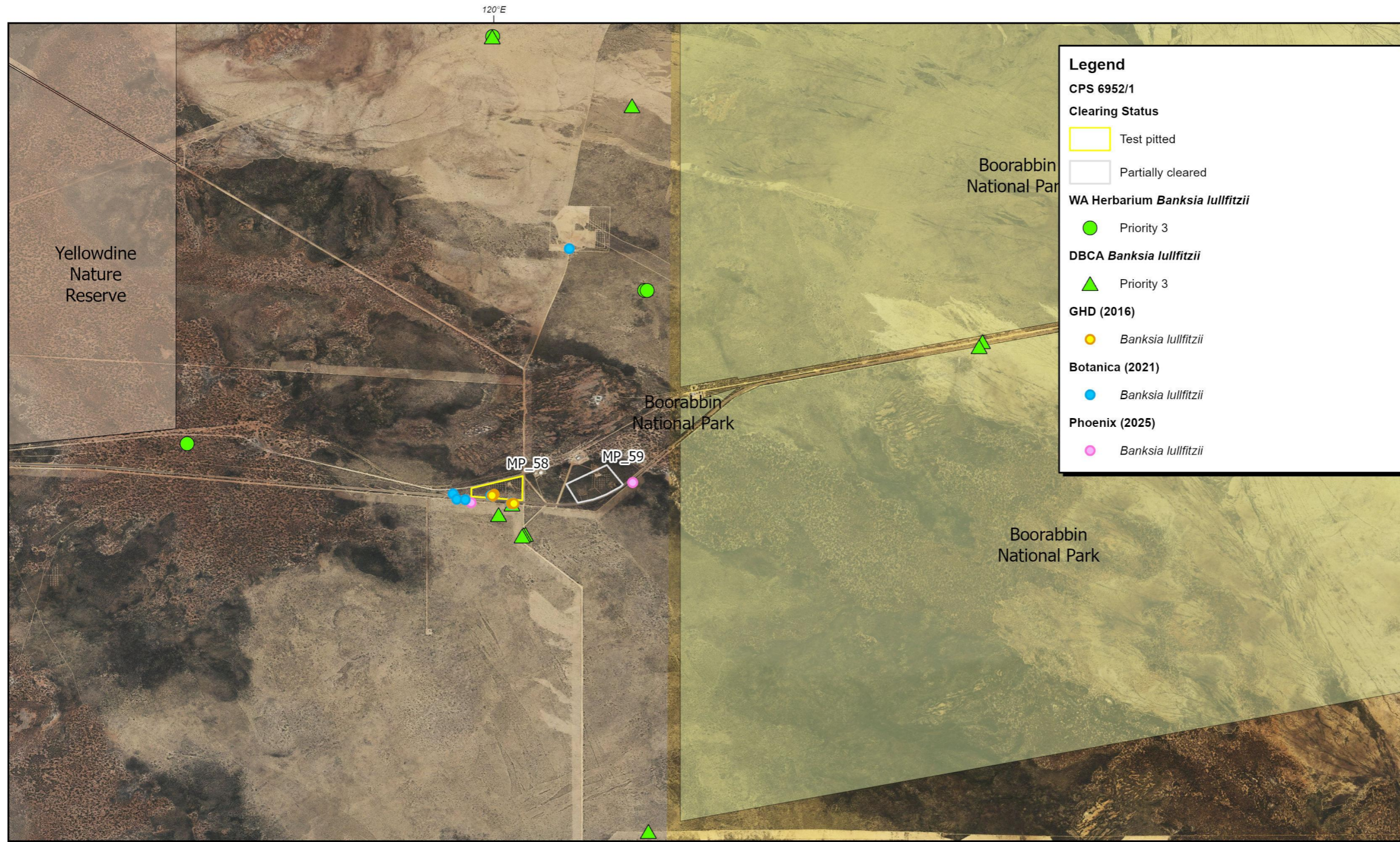
0 5  
Kilometers

Great Eastern Highway Material Pits CPS6952/1

***Banksia lullfitzii***

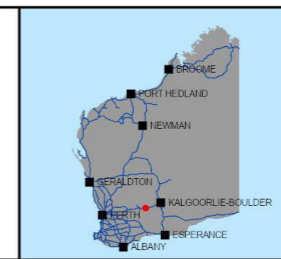


6.2.9 *Banksia lullfitzii* (2 of 2)

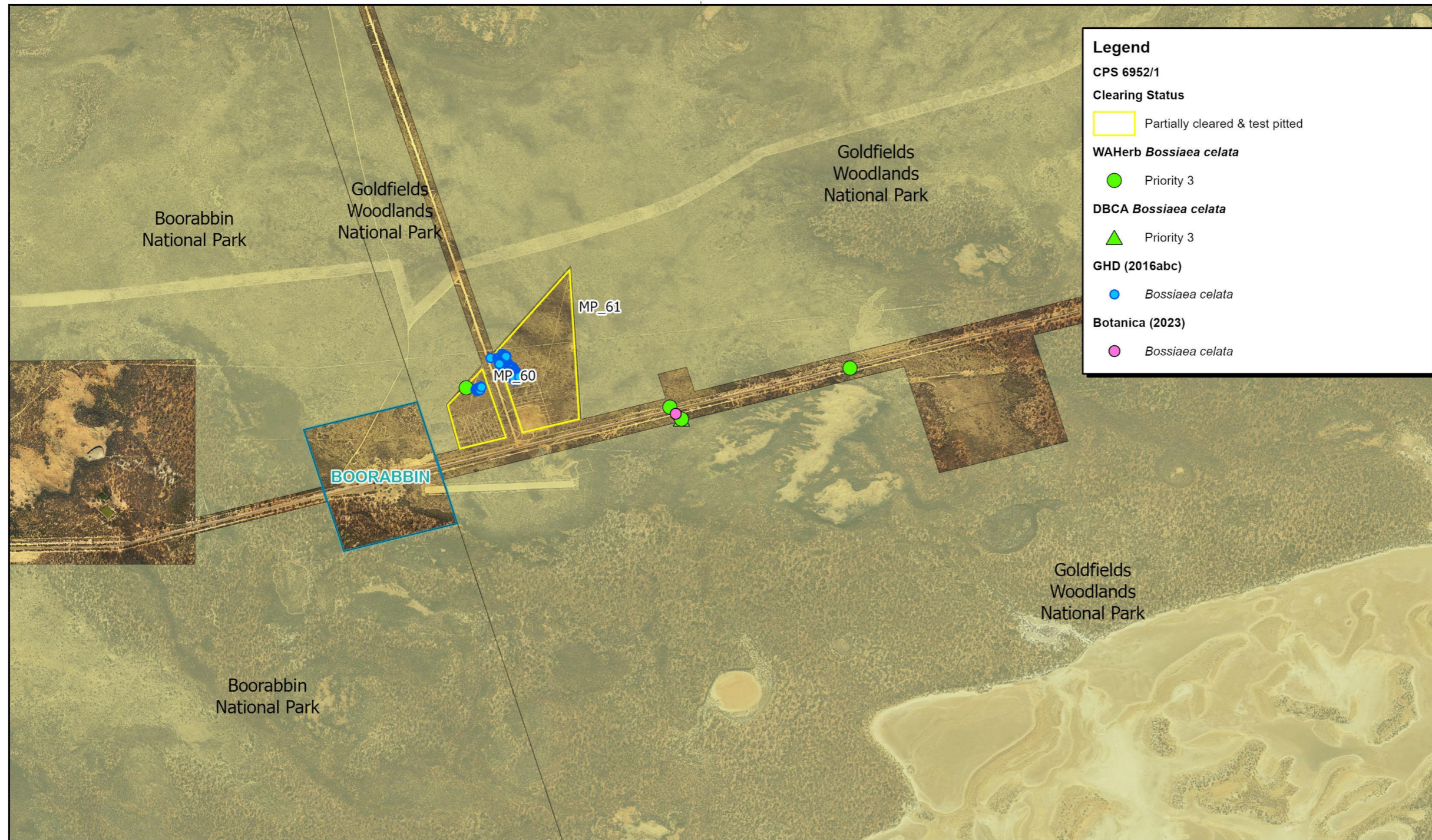


Great Eastern Highway Material Pits CPS6952/1

***Banksia lullfitzii***



6.2.10 *Bossiaea celata*



N

Coordinate System: GDA2020  
Scale: 1:40,000 @ A4  
Created Date: 11/03/2026  
Author: C10861

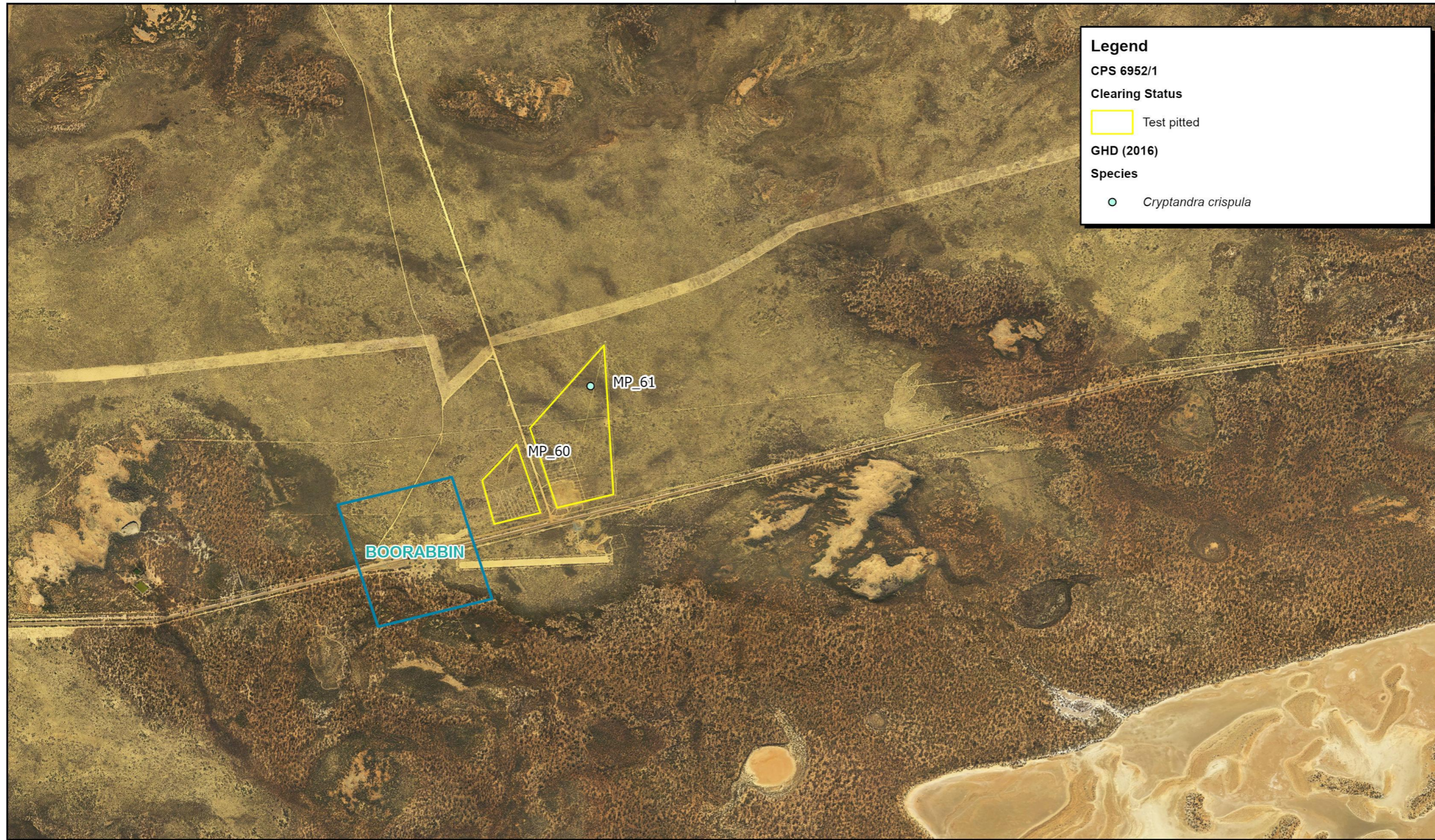
0 5

Kilometers

Great Eastern Highway Material Pits CPS6952/1

***Bossiaea celata***

6.2.11 *Cryptandra crispula*

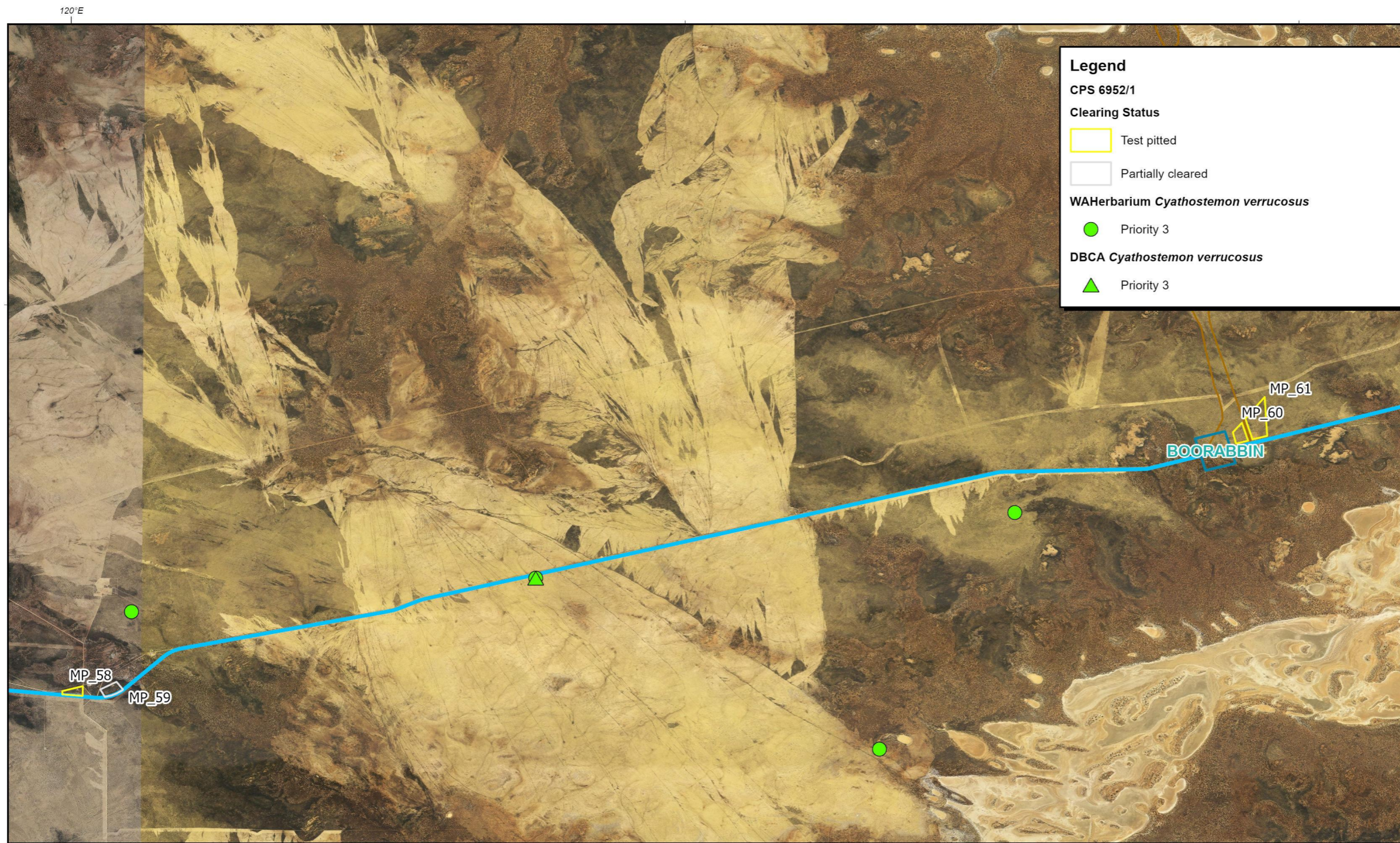


Coordinate System: GDA2020  
Scale: 1:40,000 @ A4  
Created Date: 23/02/2026  
Author: C10861

0 3 5  
Kilometers

Great Eastern Highway Material Pits CPS6952/1  
***Cryptandra crispula***

6.2.12 *Cyathostemon verrucosus*

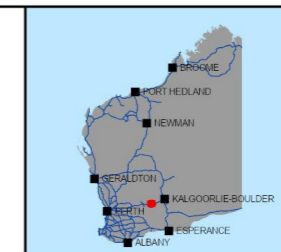


Coordinate System: GDA2020  
Scale: 1:150,000 @ A4  
Created Date: 24/02/2026  
Author: C10861

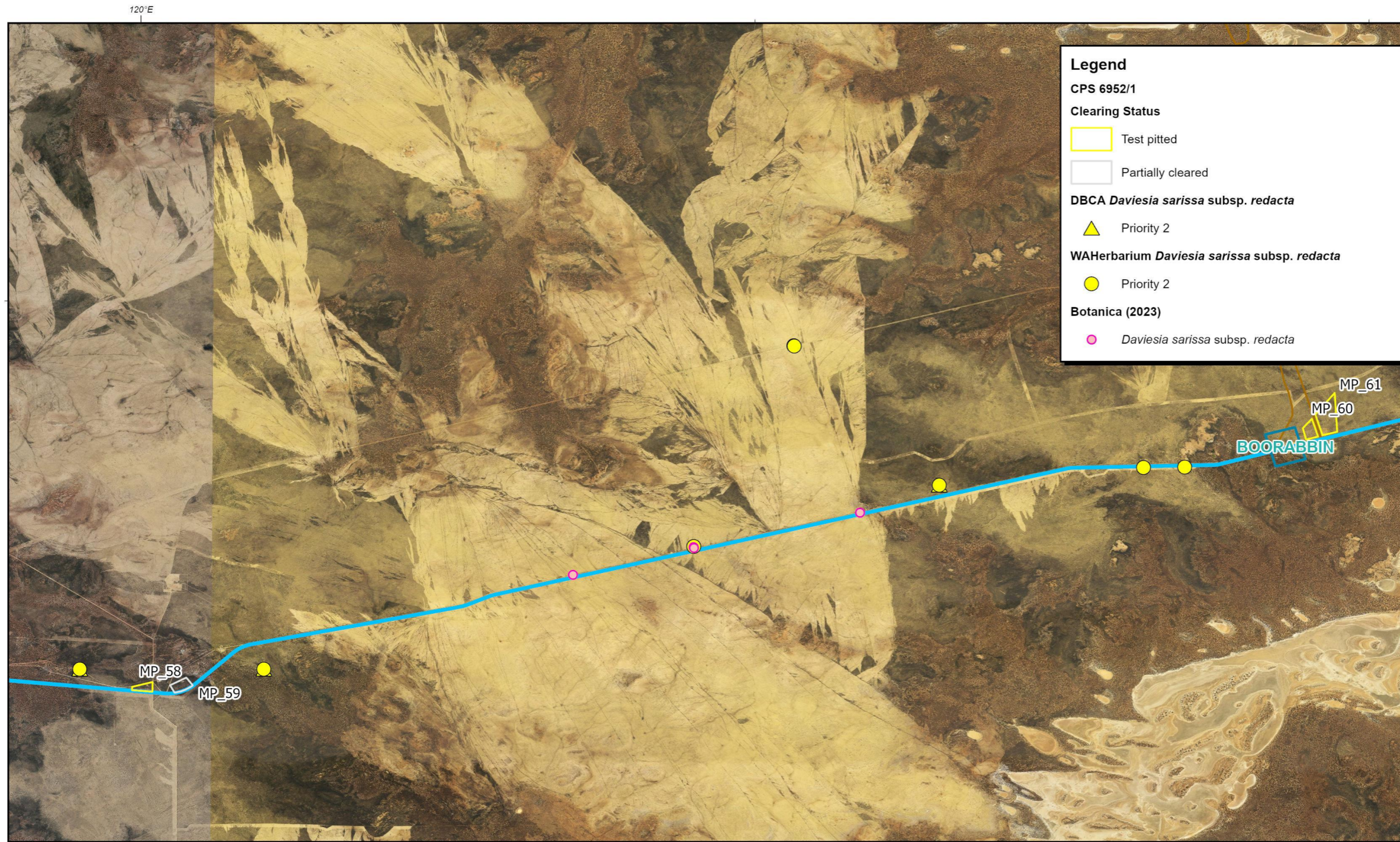
0 3 5  
Kilometers

Great Eastern Highway Material Pits CPS6952/1

*Cyathostemon verrucosus*



6.2.13 *Daviesia sarissa* subsp. *redacta*



**Legend**

CPS 6952/1

**Clearing Status**

- Test pitted
- Partially cleared

**DBCA *Daviesia sarissa* subsp. *redacta***

- Priority 2

**WAHerbarium *Daviesia sarissa* subsp. *redacta***

- Priority 2

**Botanica (2023)**

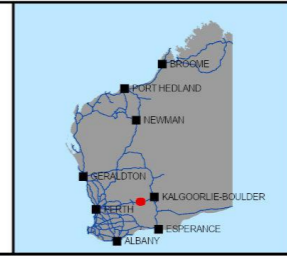
- Daviesia sarissa* subsp. *redacta*

N

Coordinate System: GDA2020  
Scale: 1:150,000 @ A4  
Created Date: 24/02/2026  
Author: C10861

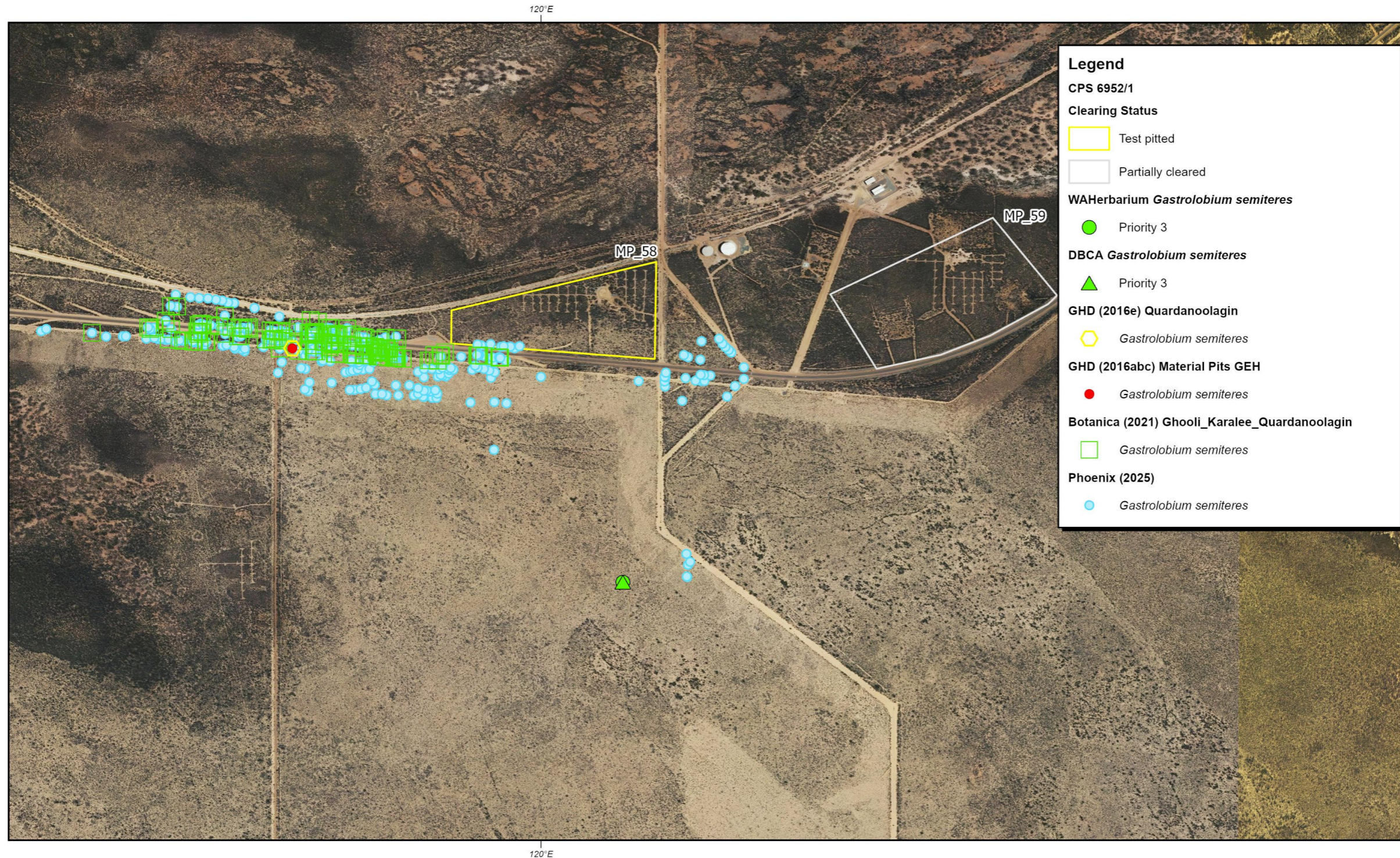
0 3 5  
Kilometers

Great Eastern Highway Material Pits CPS6952/1  
***Daviesia sarissa* subsp. *redacta***



Path: E:\Goldfields Esperance Projects\Great Eastern Highway\GEH Material Pits\GEH Material Pits.aprx

6.2.14 *Gastrolobium semiteres* (1 of 2)



**Legend**

**CPS 6952/1**

**Clearing Status**

- Test pitted
- Partially cleared

**WA Herbarium *Gastrolobium semiteres***

- Priority 3

**DBCA *Gastrolobium semiteres***

- Priority 3

**GHD (2016e) Quardanoologin**

- Gastrolobium semiteres*

**GHD (2016abc) Material Pits GEH**

- Gastrolobium semiteres*

**Botanica (2021) Ghooli\_Karalee\_Quardanoologin**

- Gastrolobium semiteres*

**Phoenix (2025)**

- Gastrolobium semiteres*

Coordinate System: GDA2020  
 Scale: 1:15,000 @ A4  
 Created Date: 26/02/2026  
 Author: C10861

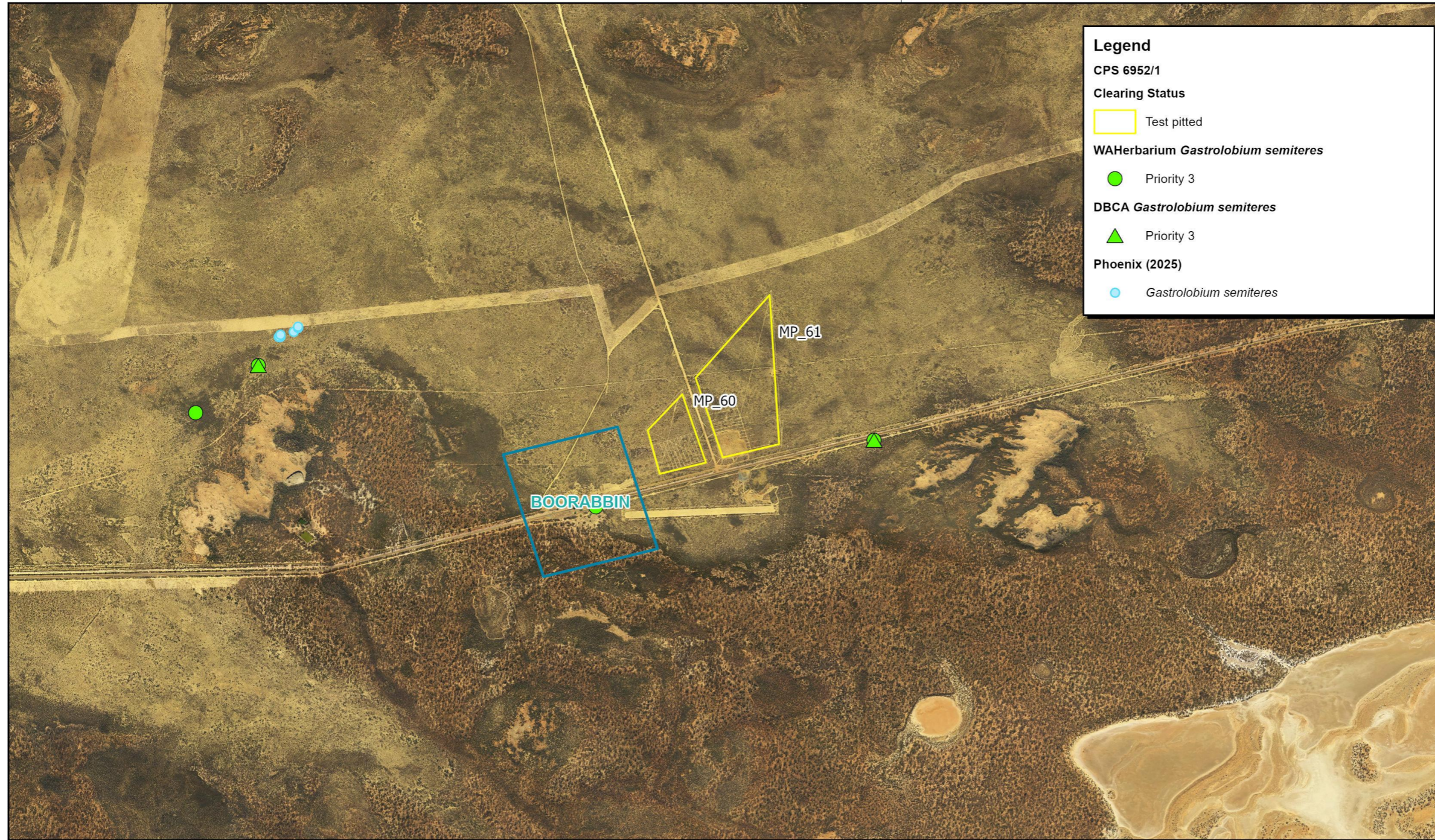
Great Eastern Highway Material Pits CPS6952/1

***Gastrolobium semiteres***

0 1 2  
 Kilometers

mainroads  
 WESTERN AUSTRALIA

6.2.15 *Gastrolobium semiteres* (2 of 2)



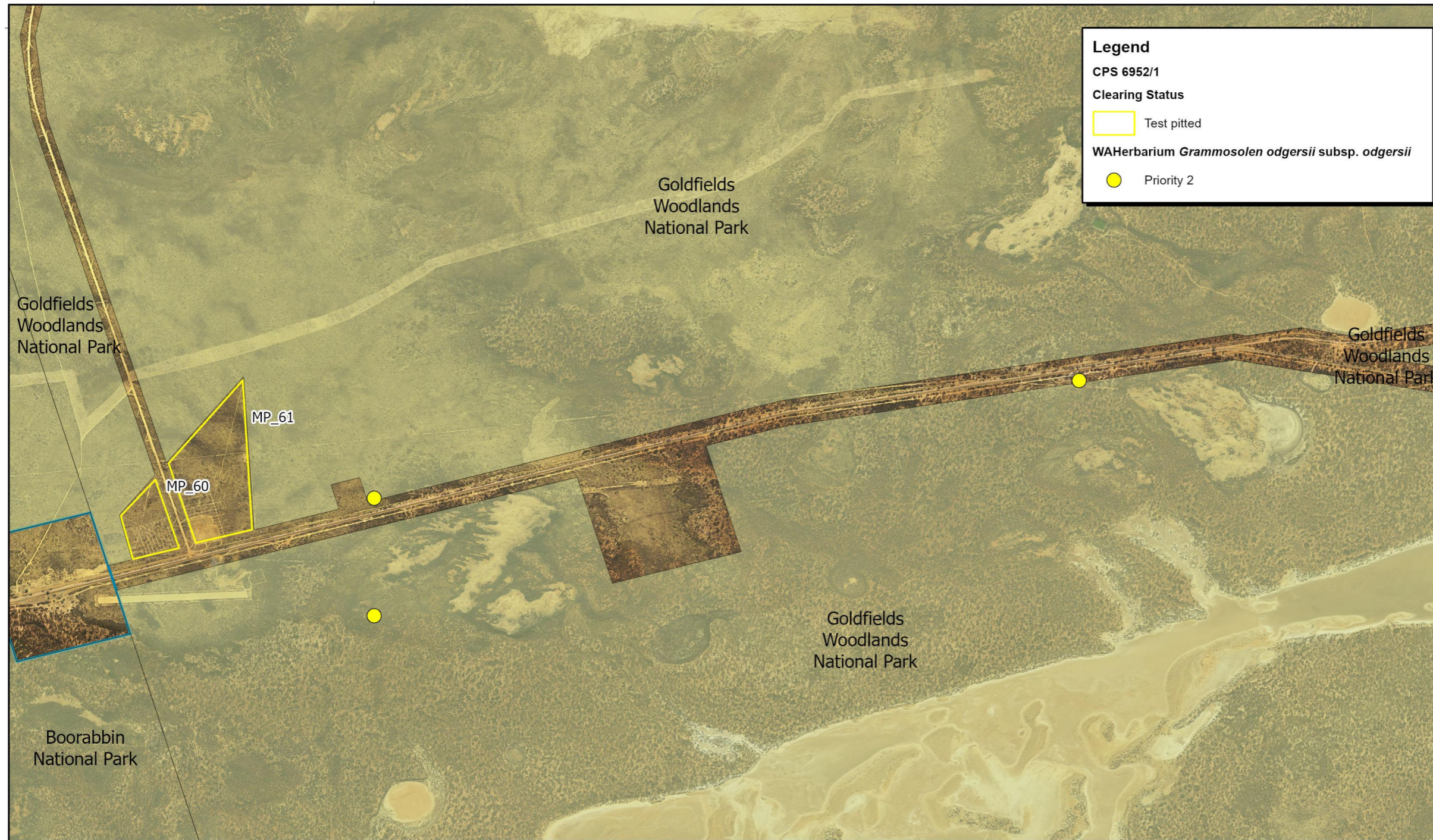
**Legend**  
CPS 6952/1  
Clearing Status  
[Yellow outline] Test pitted  
WAHerbarium *Gastrolobium semiteres*  
[Green circle] Priority 3  
DBCA *Gastrolobium semiteres*  
[Green triangle] Priority 3  
Phoenix (2025)  
[Blue circle] *Gastrolobium semiteres*

Coordinate System: GDA2020  
Scale: 1:40,000 @ A4  
Created Date: 26/02/2026  
Author: C10861

Great Eastern Highway Material Pits CPS6952/1  
***Gastrolobium semiteres***

0 5  
Kilometers

6.2.16 *Grammosolen odgersii* subsp. *odgersii*

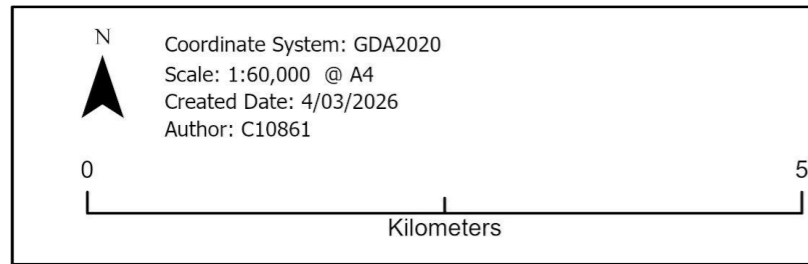
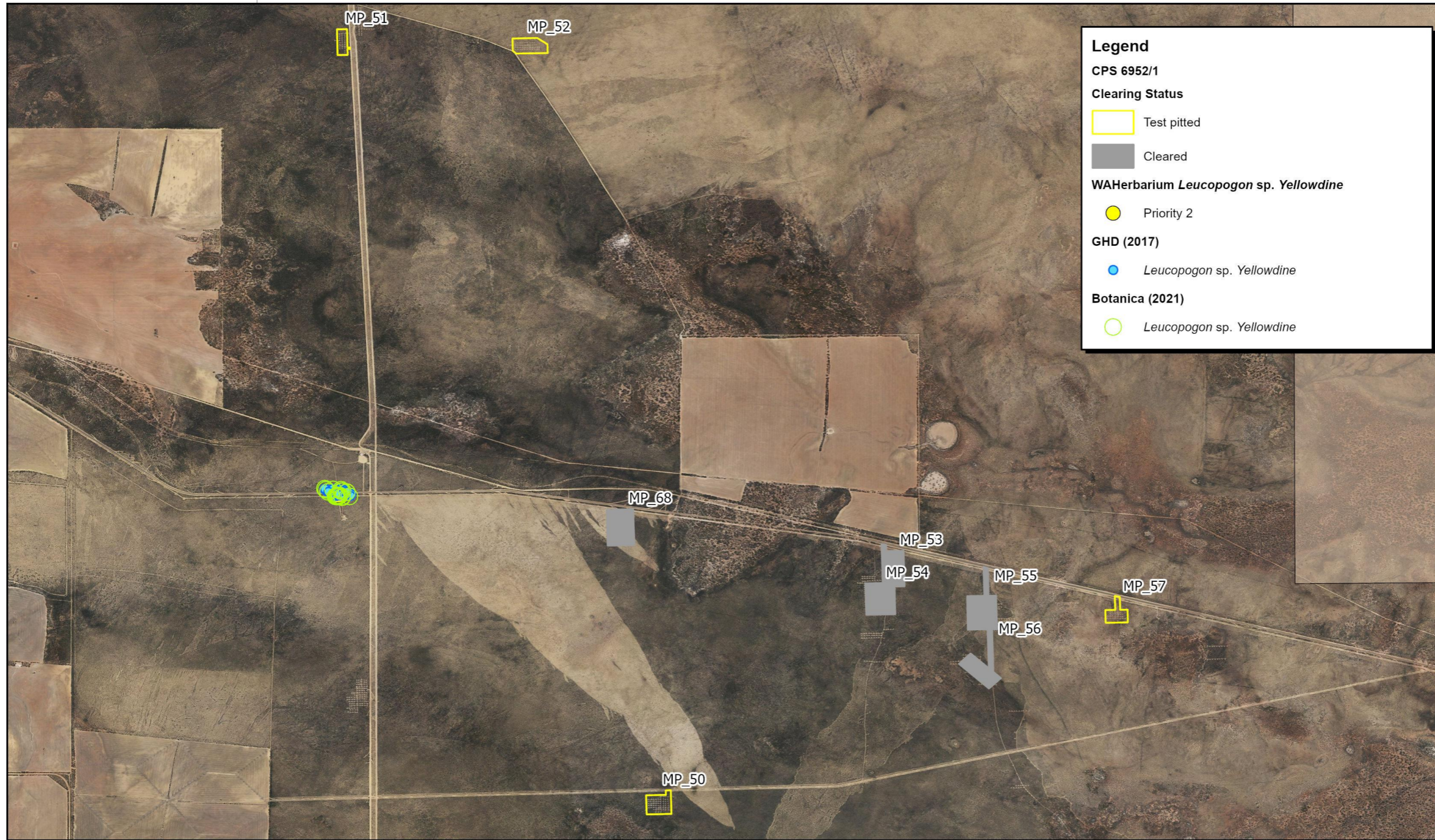


Coordinate System: GDA2020  
Scale: 1:40,000 @ A4  
Created Date: 26/02/2026  
Author: C10861

0 5  
Kilometers

Great Eastern Highway Material Pits CPS6952/1  
***Grammosolen odgersii* subsp. *odgersii***

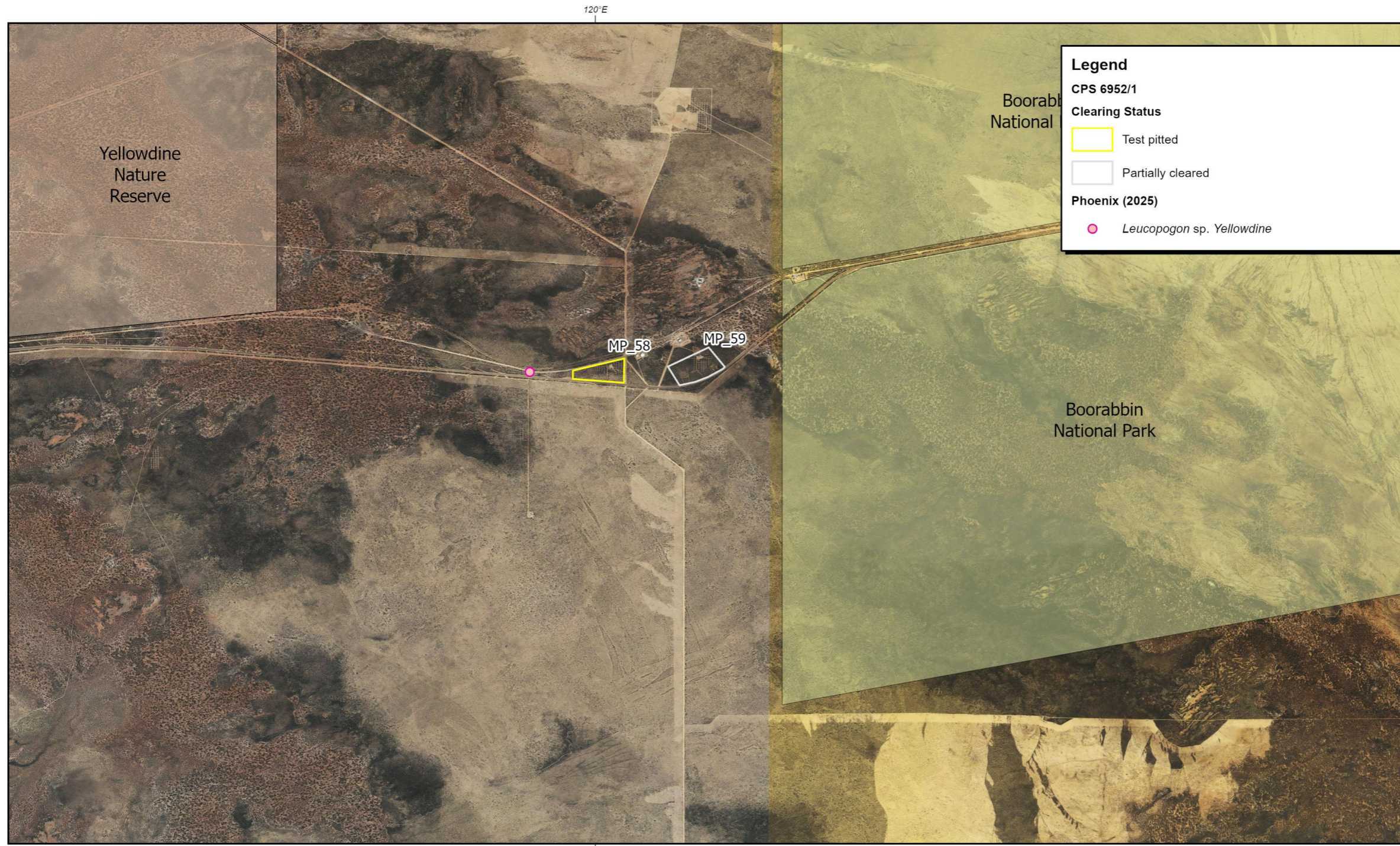
6.2.17 *Leucopogon* sp. *Yellowdine* (M. Hislop & F. Hort MH 3194) (1 of 3)



Great Eastern Highway Material Pits CPS6952/1  
***Leucopogon* sp. *Yellowdine* (M. Hislop & F. Hort MH 3194)**



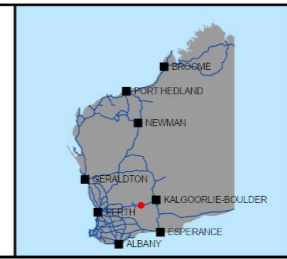
6.2.18 *Leucopogon* sp. *Yellowdine* (M. Hislop & F. Hort MH 3194) (2 of 3)



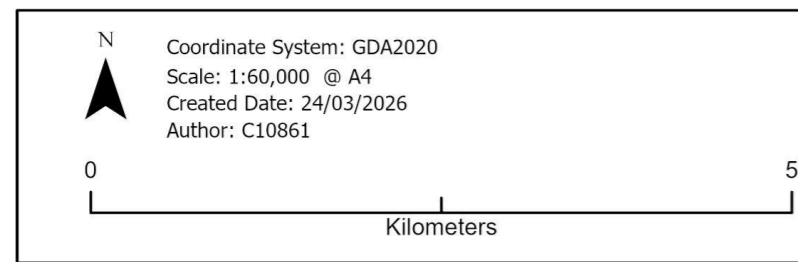
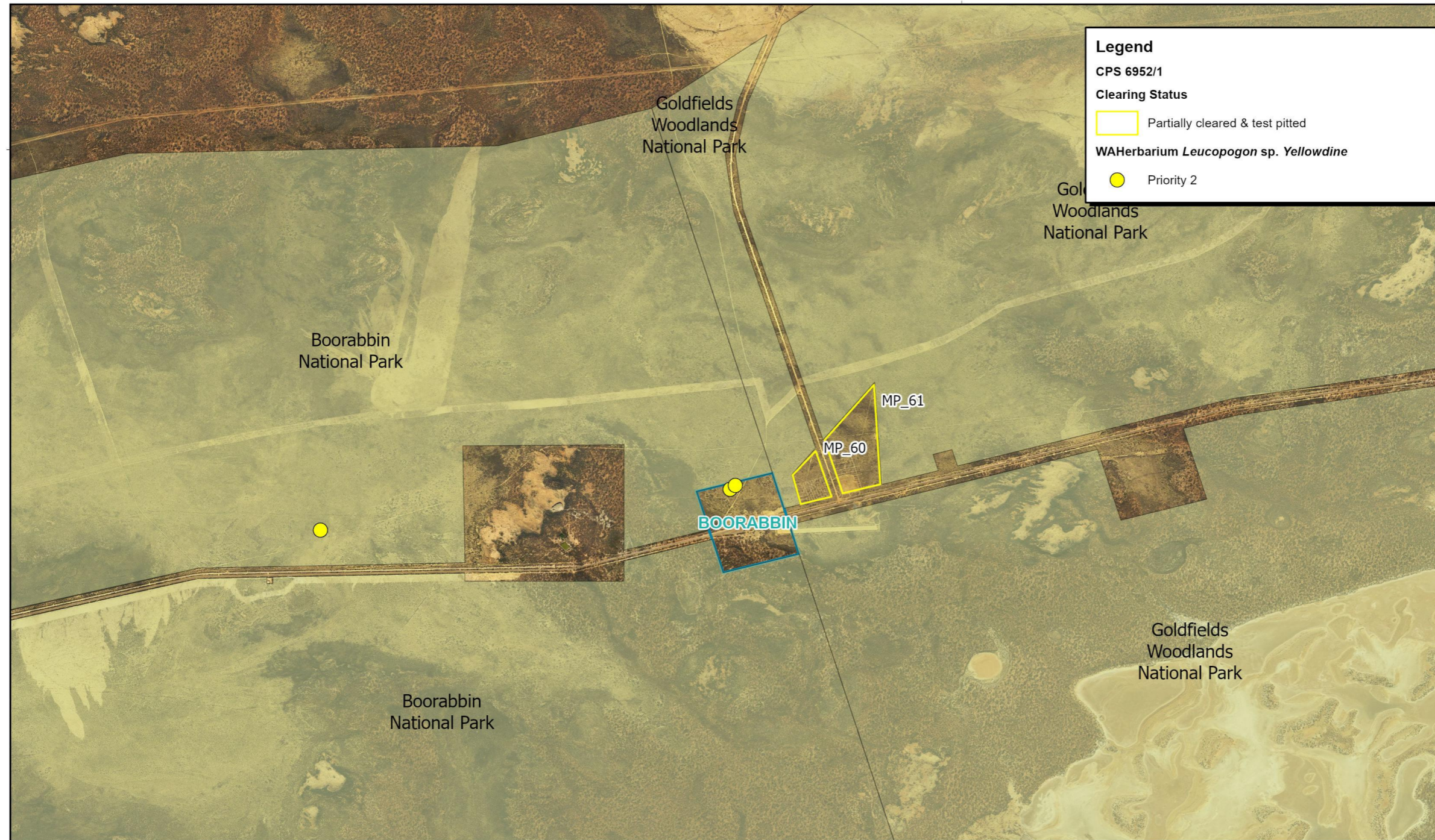
N  
Coordinate System: GDA2020  
Scale: 1:60,000 @ A4  
Created Date: 4/03/2026  
Author: C10861

0 5  
Kilometers

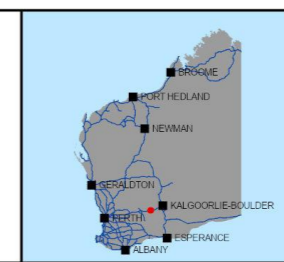
Great Eastern Highway Material Pits CPS6952/1  
***Leucopogon* sp. *Yellowdine* (M. Hislop & F. Hort MH 3194)**



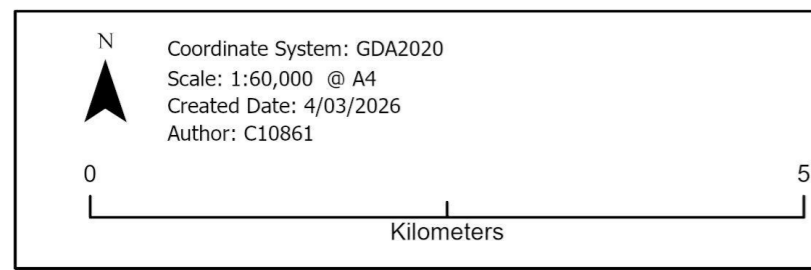
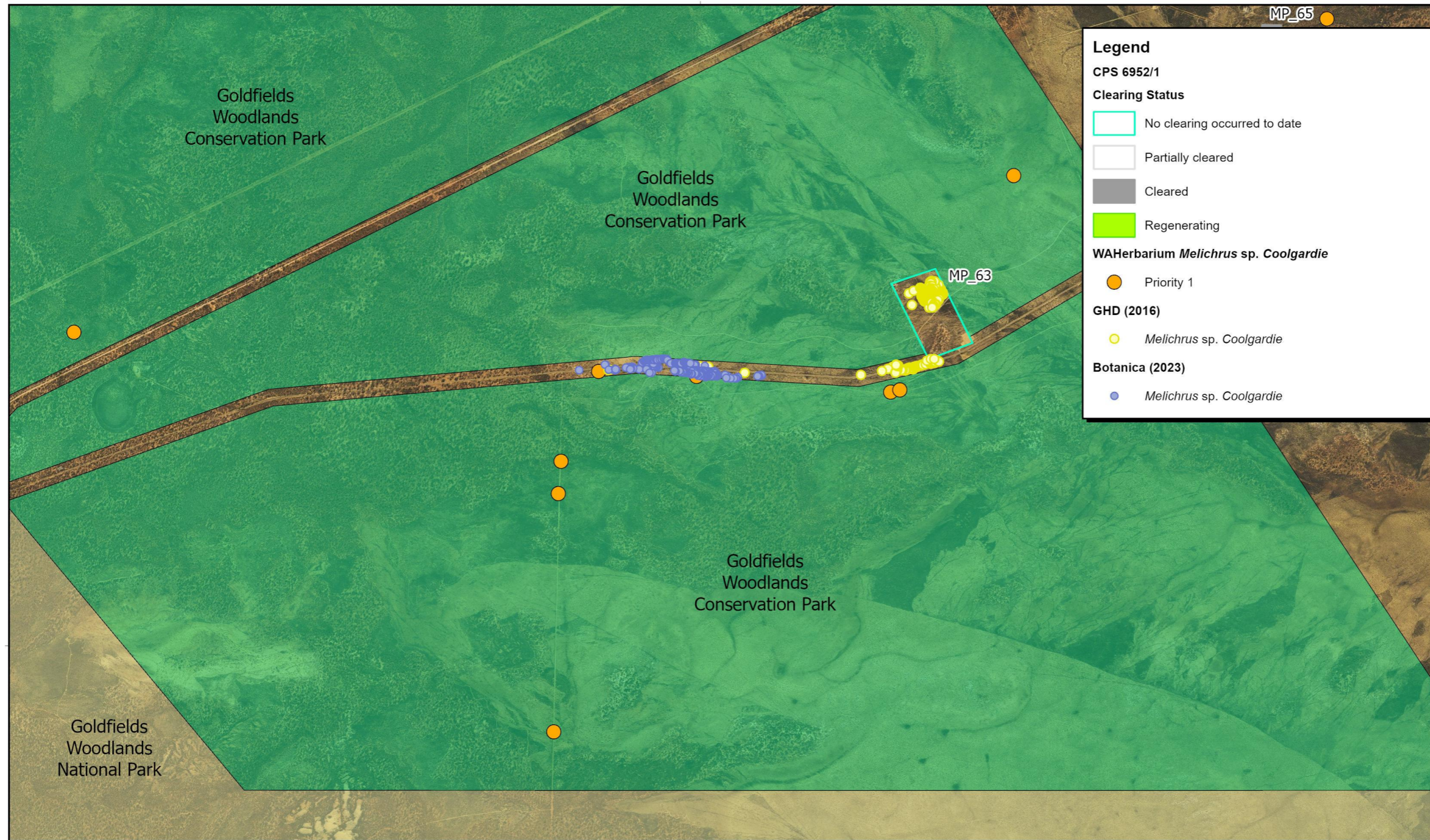
6.2.19 *Leucopogon* sp. *Yellowdine* (M. Hislop & F. Hort MH 3194) (3 of 3)



Great Eastern Highway Material Pits CPS6952/1  
***Leucopogon* sp. *Yellowdine* (M. Hislop & F. Hort MH 3194)**



6.2.20 *Melichrus* sp. *Coolgardie* (K.R. Newbey 8698) (1 of 2)

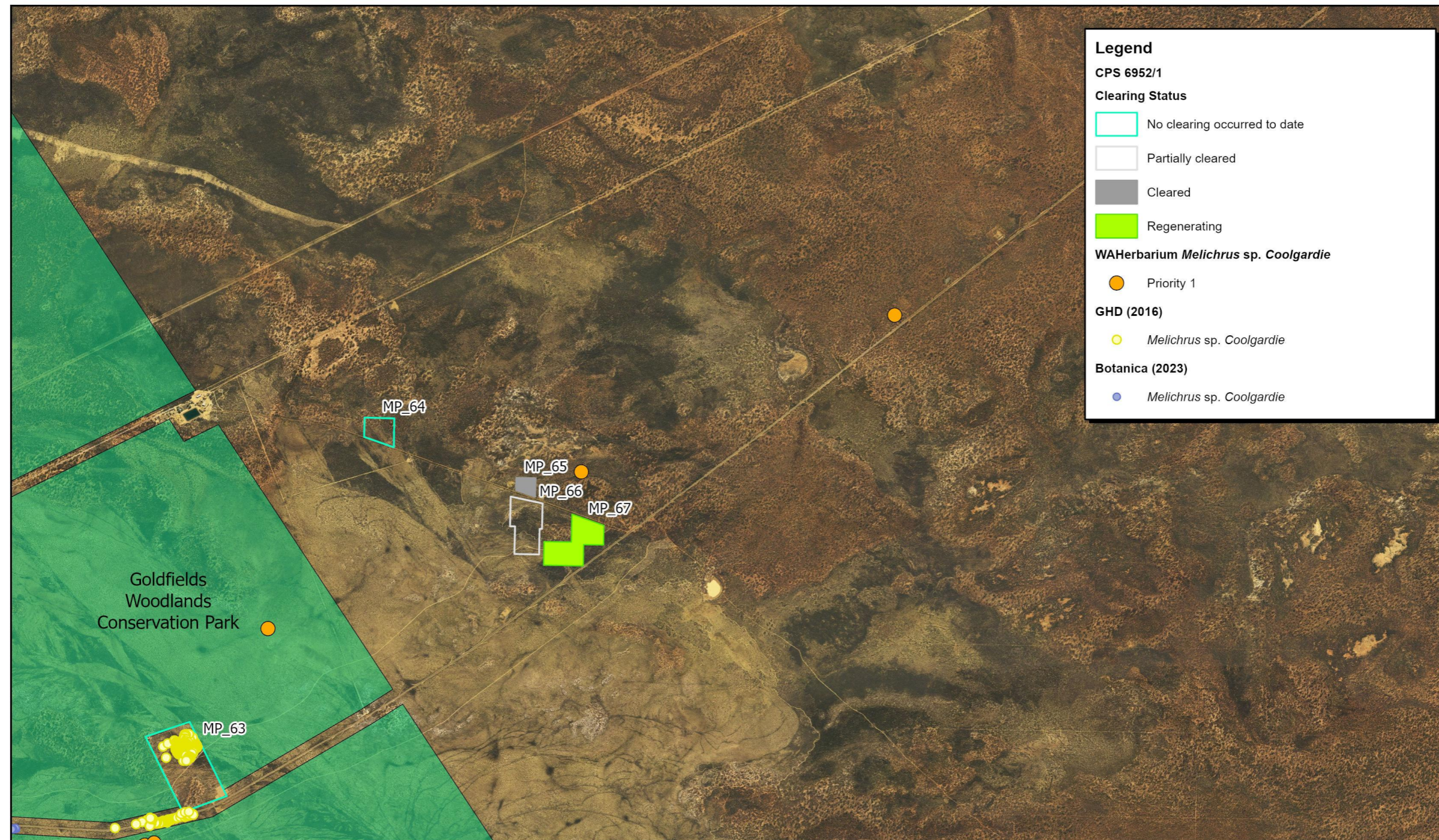


Great Eastern Highway Material Pits CPS6952/1  
***Melichrus* sp. *Coolgardie* (K.R. Newbey 8698)**



Path: E:\Goldfields Esperance Projects\Great Eastern Highway\GEH Material Pits\GEH Material Pits.aprx

6.2.21 *Melichrus* sp. Coolgardie (K.R. Newbey 8698) (2 of 2)

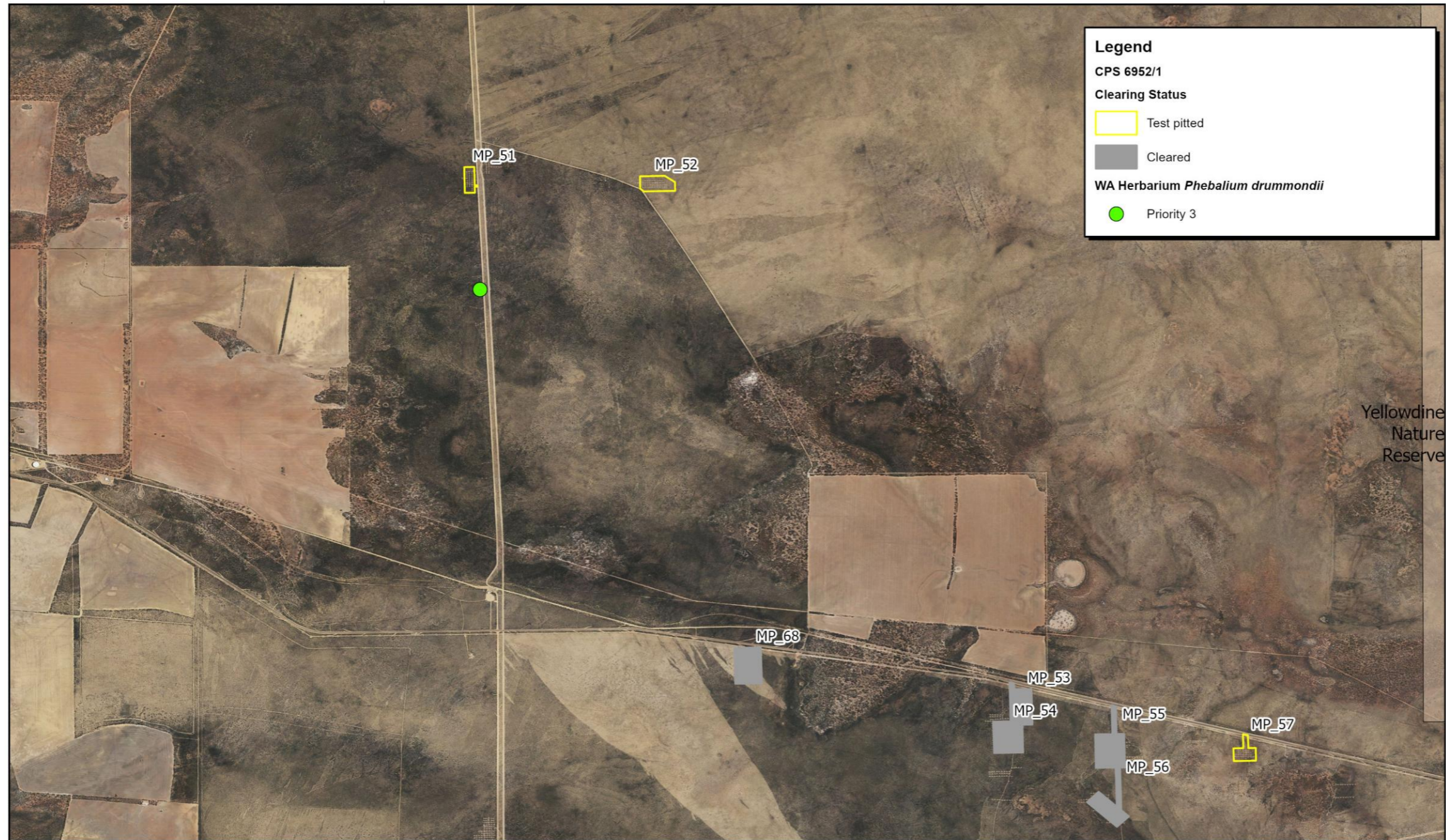


Coordinate System: GDA2020  
Scale: 1:60,000 @ A4  
Created Date: 4/03/2026  
Author: C10861

0 5  
Kilometers

Great Eastern Highway Material Pits CPS6952/1  
***Melichrus* sp. Coolgardie (K.R. Newbey 8698)**

6.2.22 *Phebalium drummondii*



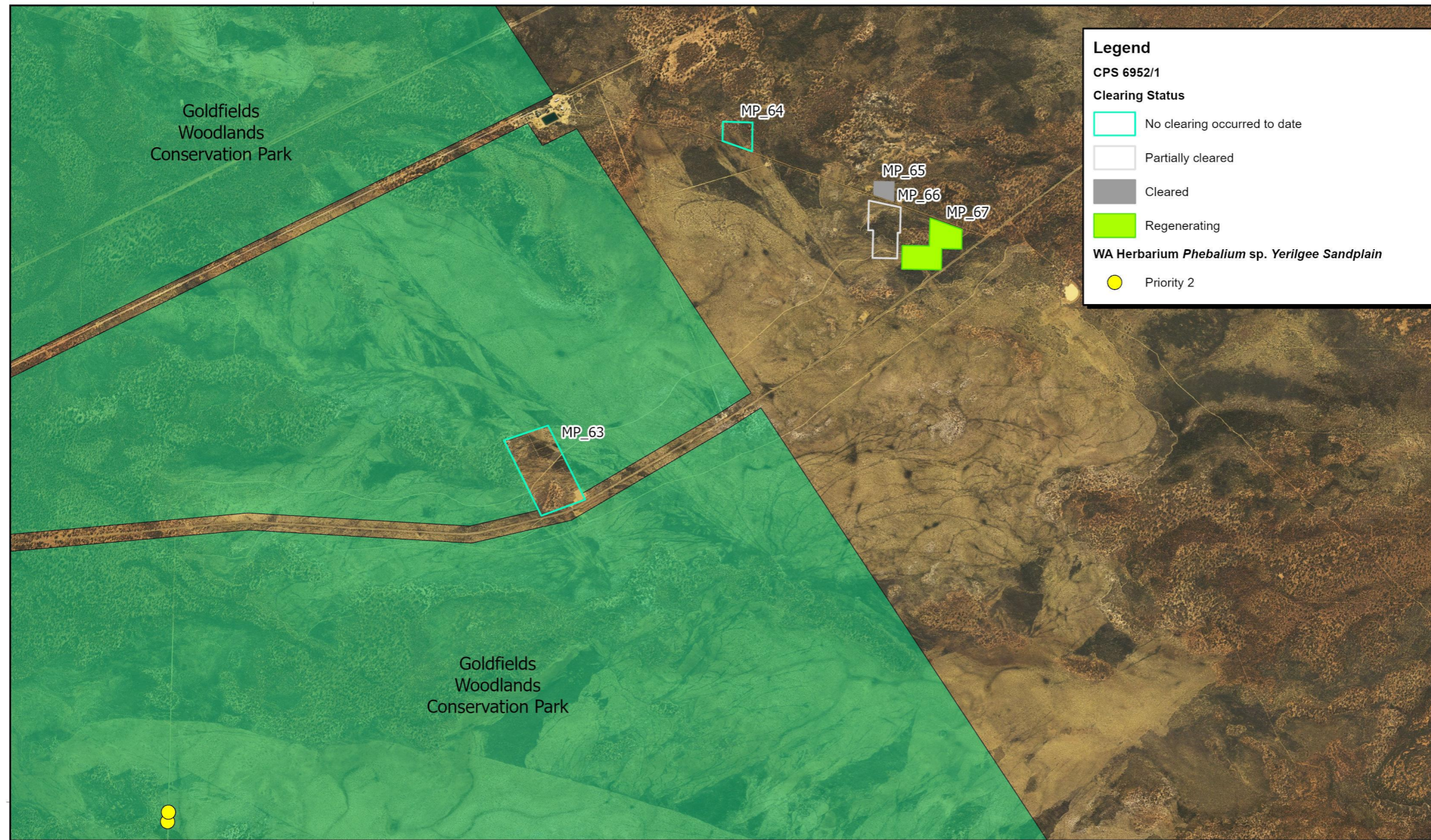
Coordinate System: GDA2020  
Scale: 1:60,000 @ A4  
Created Date: 4/03/2026  
Author: C10861

0 5  
Kilometers

Great Eastern Highway Material Pits CPS6952/1  
***Phebalium drummondii***

Path: E:\Goldfields Esperance Projects\Great Eastern Highway\GEH Material Pits\GEH Material Pits.aprx

6.2.23 *Phebalium* sp. Yerilgee Sandplain (J. Jackson 223)



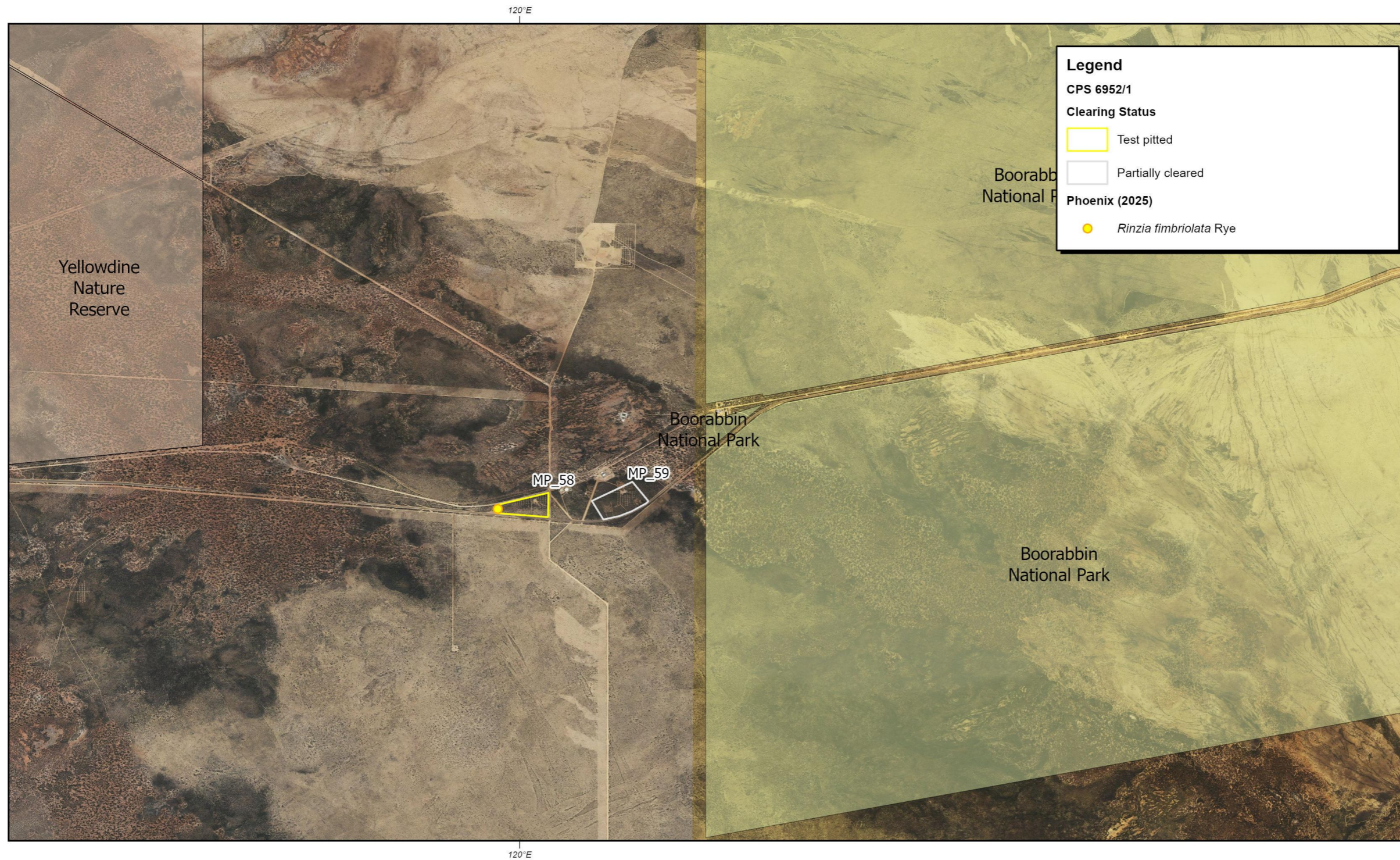
Coordinate System: GDA2020  
Scale: 1:60,000 @ A4  
Created Date: 4/03/2026  
Author: C10861

0 5  
Kilometers

Great Eastern Highway Material Pits CPS6952/1  
***Phebalium* sp. Yerilgee Sandplain (J. Jackson 223)**

The bottom section contains a north arrow, a scale bar from 0 to 5 kilometers, and a metadata block with the title 'Great Eastern Highway Material Pits CPS6952/1' and the species name '*Phebalium* sp. Yerilgee Sandplain (J. Jackson 223)'. It also features the logos for the Government of Western Australia and Mainroads Western Australia, and an inset map of Western Australia showing the location of the study area in the south-eastern region.

6.2.24 *Rinzia fimbriolata*

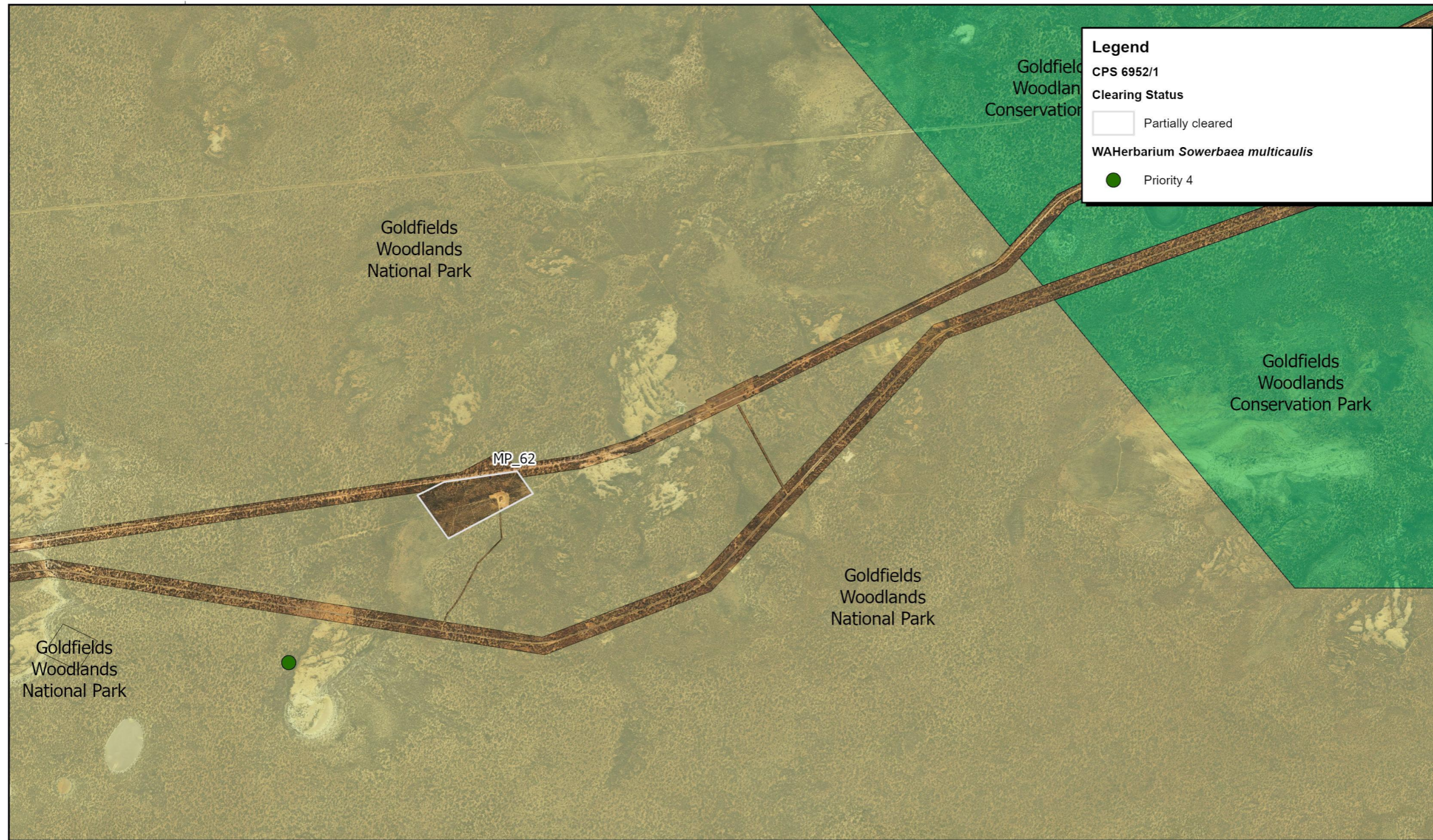


Coordinate System: GDA2020  
Scale: 1:60,000 @ A4  
Created Date: 5/03/2026  
Author: C10861

0 5  
Kilometers

Great Eastern Highway Material Pits CPS6952/1  
***Rinzia fimbriolata* Rye**

6.2.25 *Sowerbaea multicaulis*

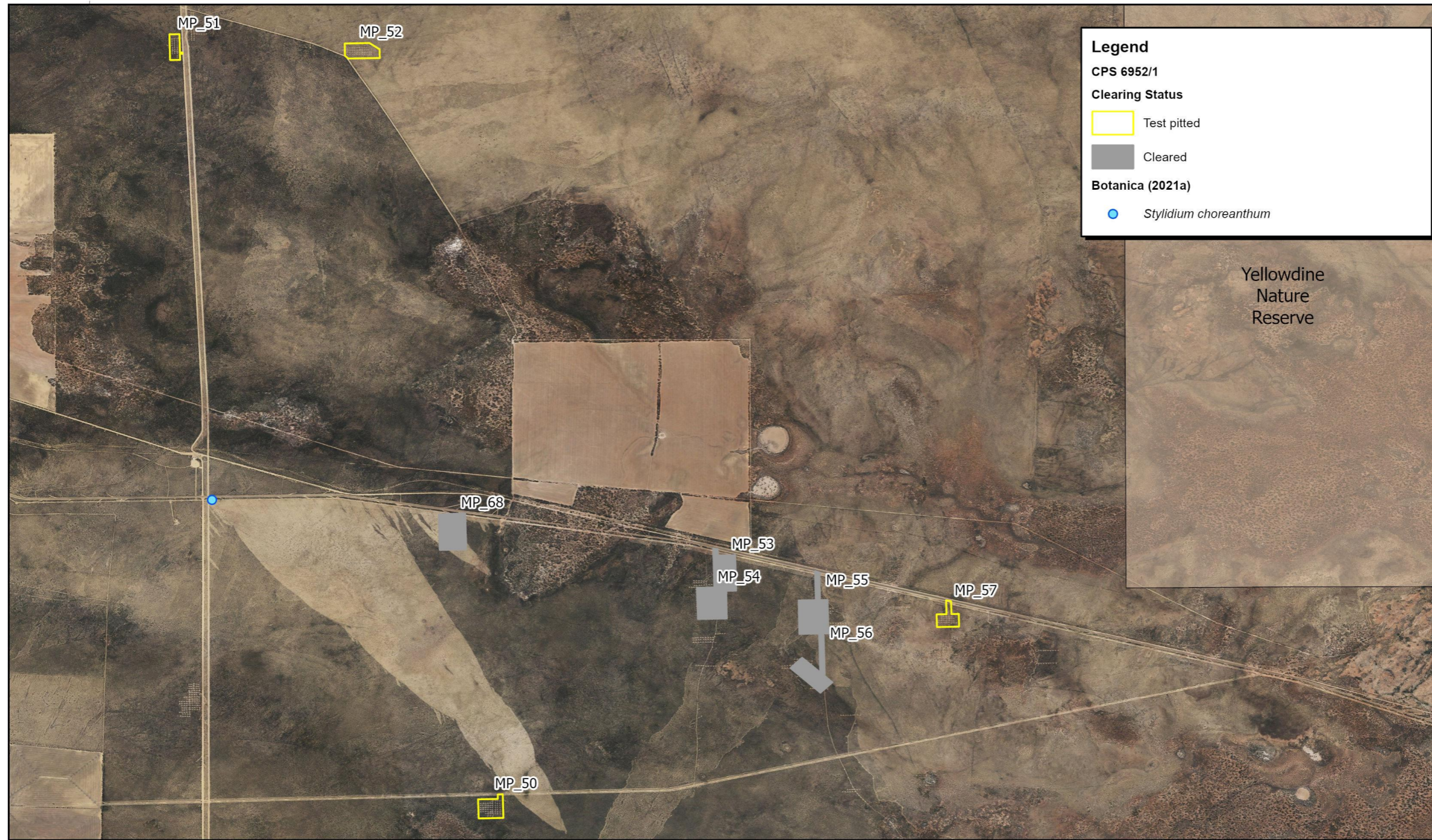


Coordinate System: GDA2020  
Scale: 1:60,000 @ A4  
Created Date: 5/03/2026  
Author: C10861

0 5  
Kilometers

Great Eastern Highway Material Pits CPS6952/1  
***Sowerbaea multicaulis***

6.2.26 *Stylidium choreanthum* (1 of 2)



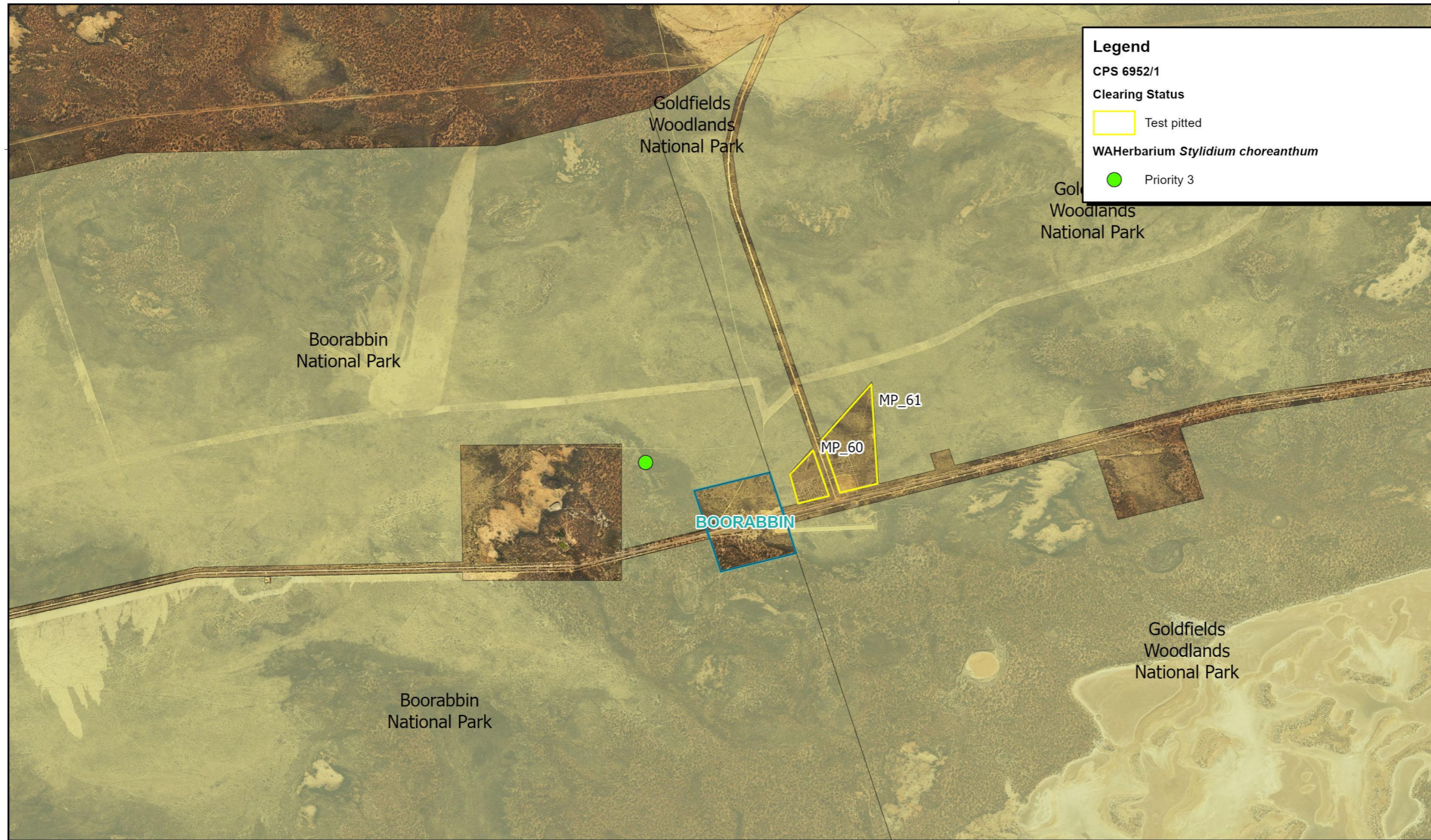
Coordinate System: GDA2020  
Scale: 1:60,000 @ A4  
Created Date: 9/03/2026  
Author: C10861

0 5  
Kilometers

Great Eastern Highway Material Pits CPS6952/1  
***Stylidium choreanthum***

Path: E:\Goldfields Esperance Projects\Great Eastern Highway\GEH Material Pits\GEH Material Pits.aprx

6.2.27 *Stylidium choreanthum* (2 of 2)

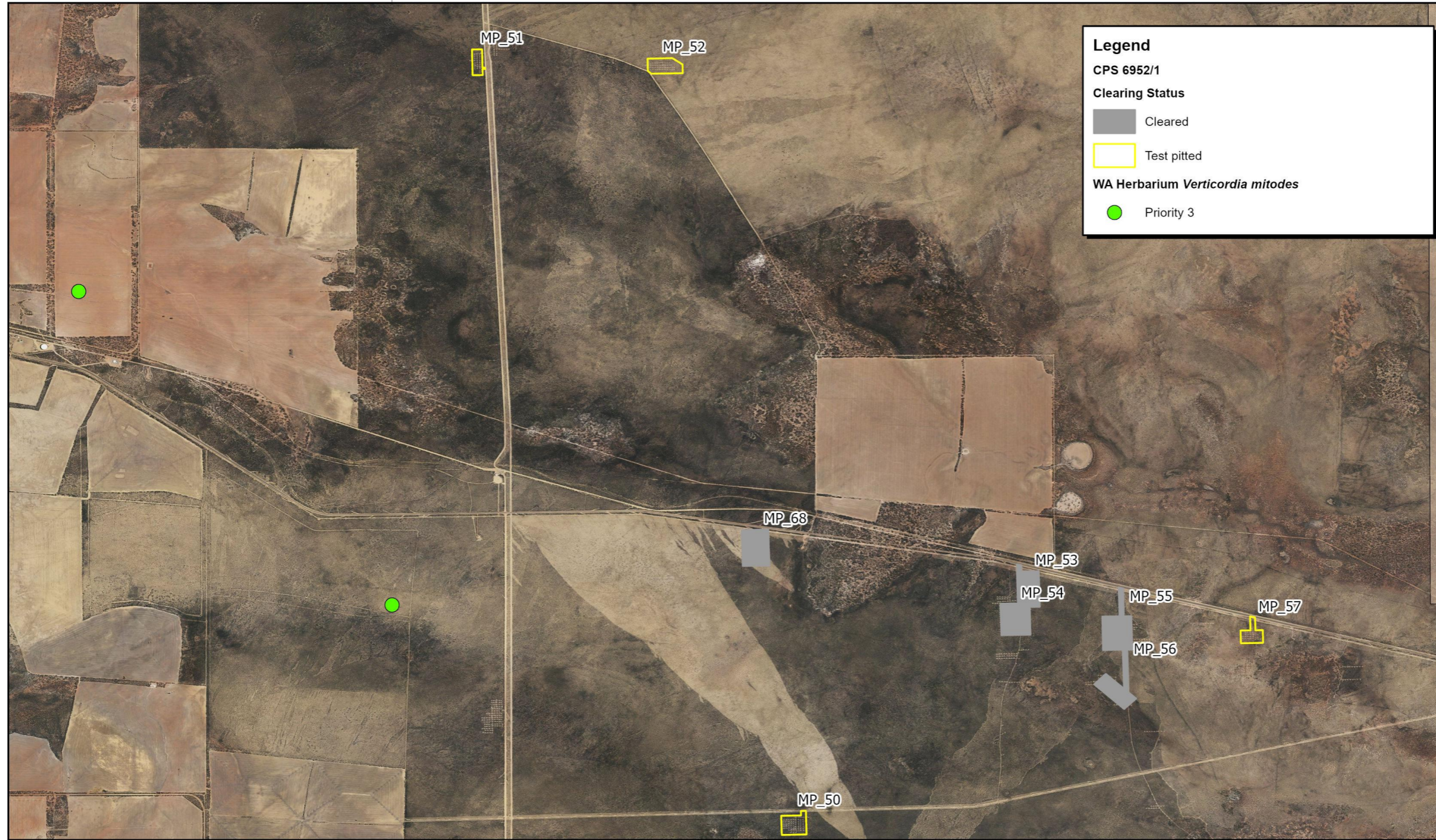


Coordinate System: GDA2020  
Scale: 1:60,000 @ A4  
Created Date: 5/03/2026  
Author: C10861

0 5  
Kilometers

Great Eastern Highway Material Pits CPS6952/1  
***Stylidium choreanthum***

6.2.28 *Verticordia mitodes* (1 of 2)



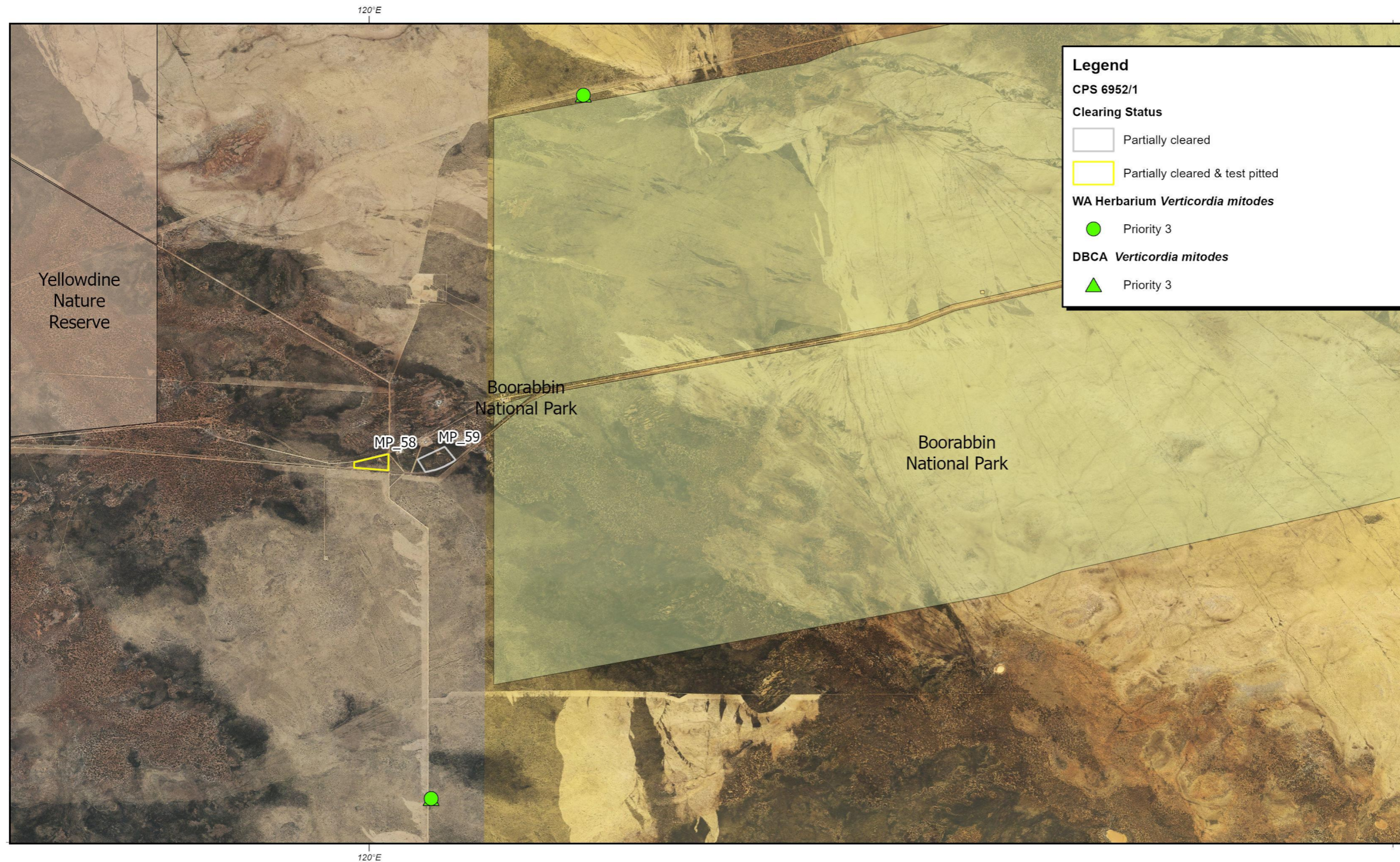
Coordinate System: GDA2020  
Scale: 1:60,000 @ A4  
Created Date: 24/03/2026  
Author: C10861

0 5  
Kilometers

Great Eastern Highway Material Pits CPS6952/1  
***Verticordia mitodes***

Path: E:\Goldfields Esperance Projects\Great Eastern Highway\GEH Material Pits\GEH Material Pits.aprx

6.2.29 *Verticordia mitodes* (2 of 2)



Coordinate System: GDA2020  
 Scale: 1:90,000 @ A4  
 Created Date: 24/03/2026  
 Author: C10861

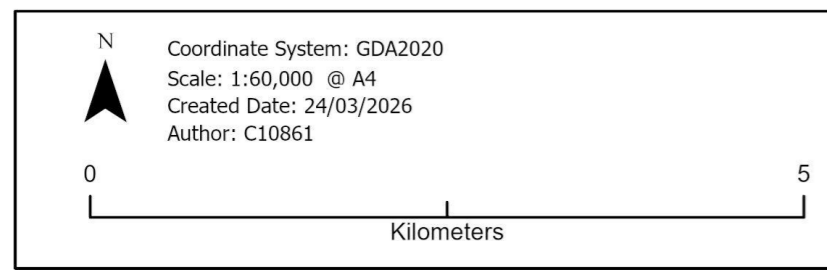
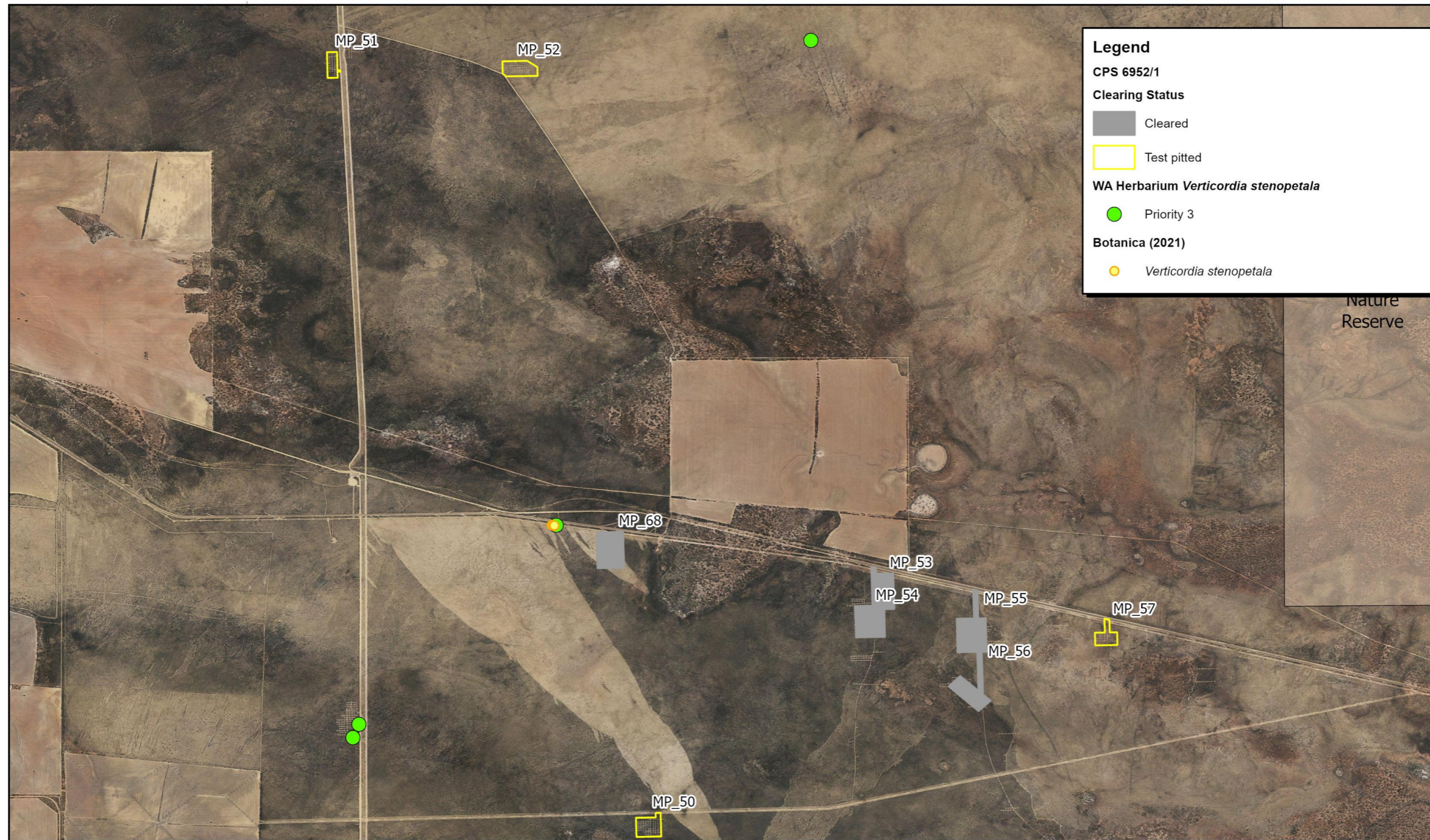
Great Eastern Highway Material Pits CPS6952/1

***Verticordia mitodes***

0 5 10  
 Kilometers

mainroads  
 WESTERN AUSTRALIA

6.2.30 *Verticordia stenopetala*



Great Eastern Highway Material Pits CPS6952/1

*Verticordia stenopetala*



Path: E:\Goldfields Esperance Projects\Great Eastern Highway\GEH Material Pits\GEH Material Pits.aprx