

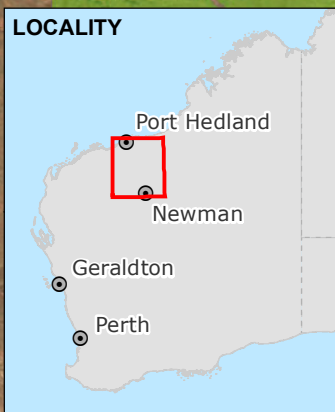
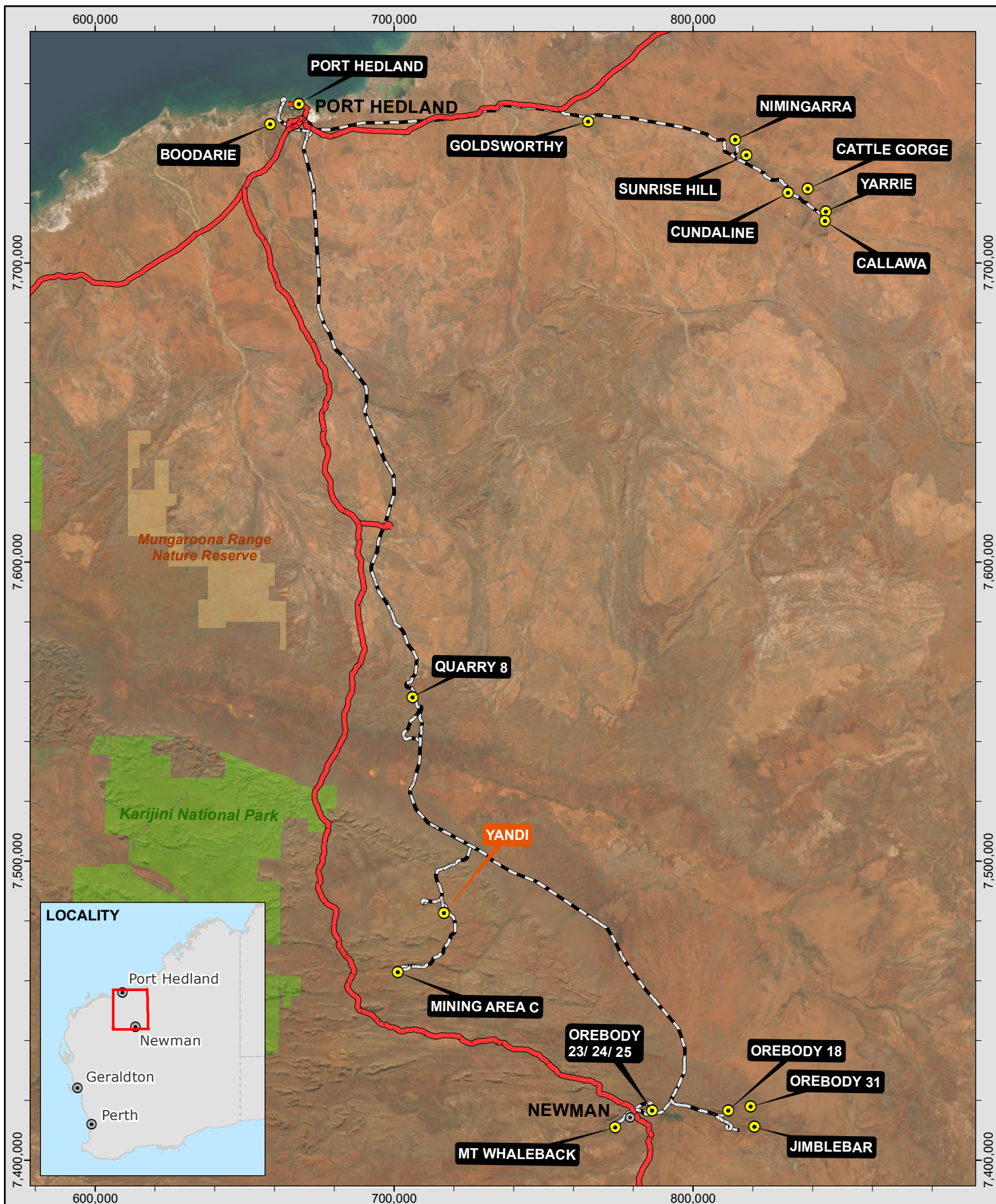


BHP Iron Ore Pty Ltd
Marillana Creek (Yandi) Closure Plan

Appendix Q



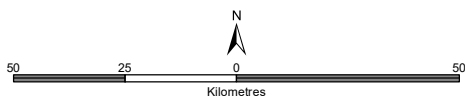
Appendix Q Maps



BHP

Spatial Data - Studies Planning & Access
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YANDI CLOSURE PLAN Location



Coordinate System: GDA 1994 MGA Zone 50 Projection: Transverse Mercator, Datum: GDA 1994, Units: Meter

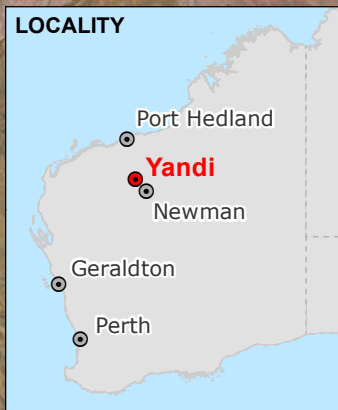
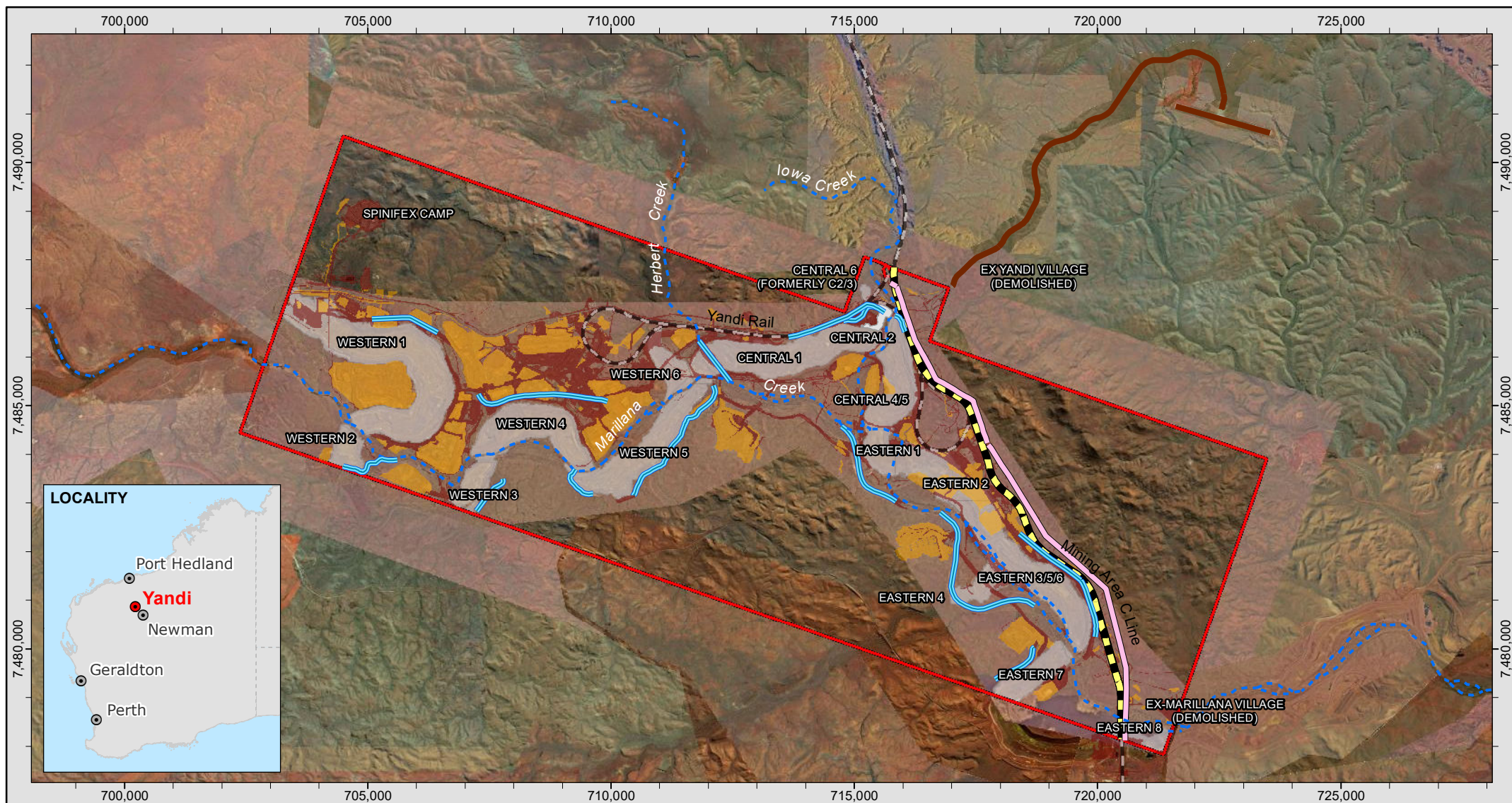
Date: 7/03/2025
Prepared: C.Devlin

Project No: A1238
Checked: D.Pershke

Figure: Fig 1-1

LEGEND

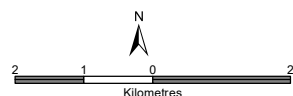
- Towns
- BHP operations
- BHP rail
- National park
- Nature reserve



BHP

Spatial Data - Studies Planning & Access
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YANDI CLOSURE PLAN Scope of Closure Plan

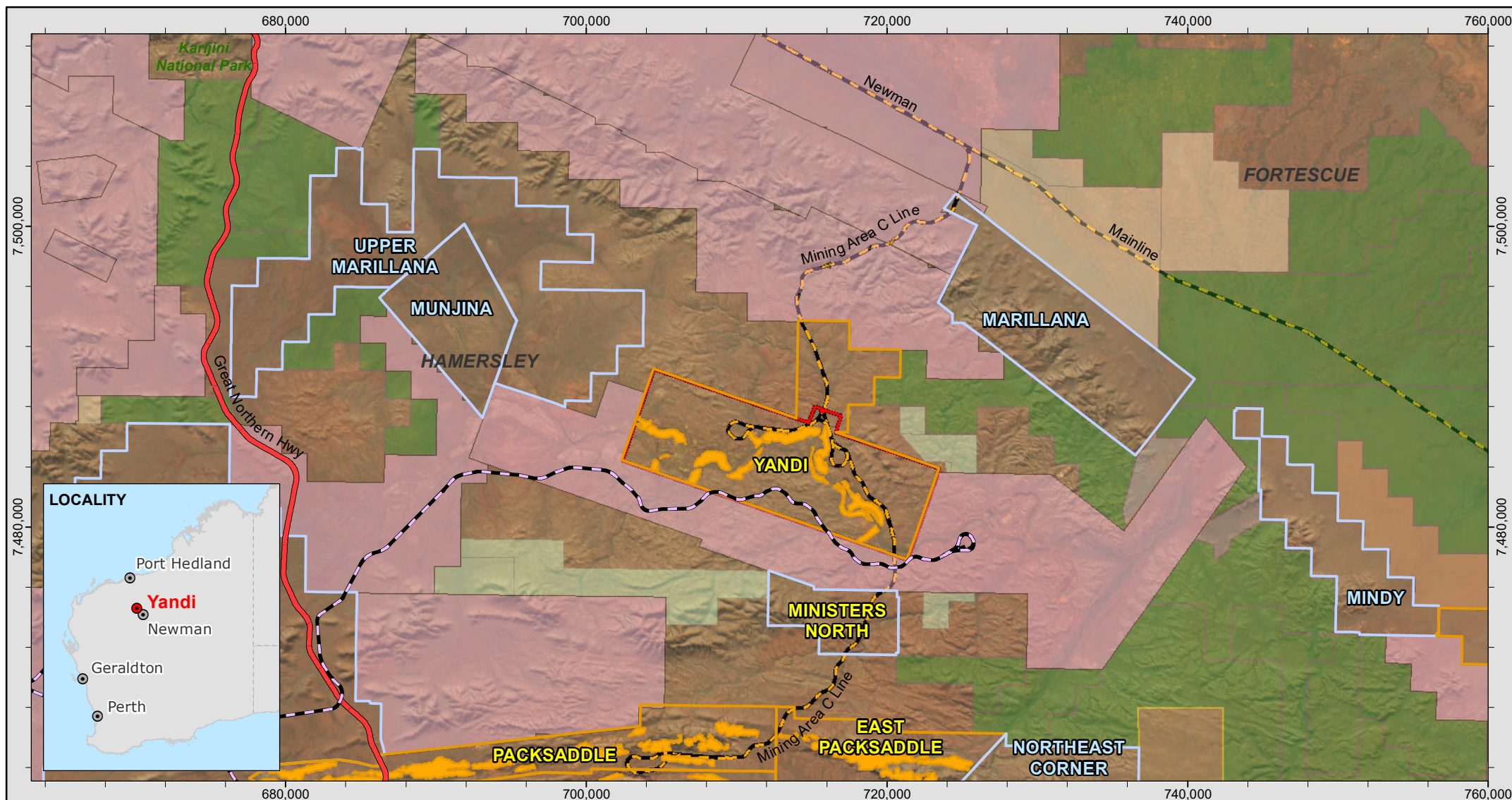


Coordinate System: GDA 1994 MGA Zone 50 Projection: Transverse Mercator, Datum: GDA 1994, Units: Meter

Date: 7/03/2025	Project No: A1238	Figure: 003 RevA
Prepared: C.Devlin	Checked: D.Pershke	

LEGEND

- BHP rail
- Rail (excluded from MCP Scope)
- Powerline (excluded from MCP Scope)
- Infrastructure jointly owned with RTIO
- Watercourse
- Constructed creek diversion
- Development envelope
- Indicative location of orebodies
- Infrastructure
- OSA/ Stockpile/ ROM





Spatial Data - Studies Planning & Access
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YANDI CLOSURE PLAN
Yandi Context





Kilometres

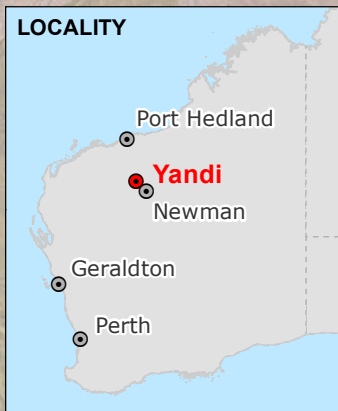
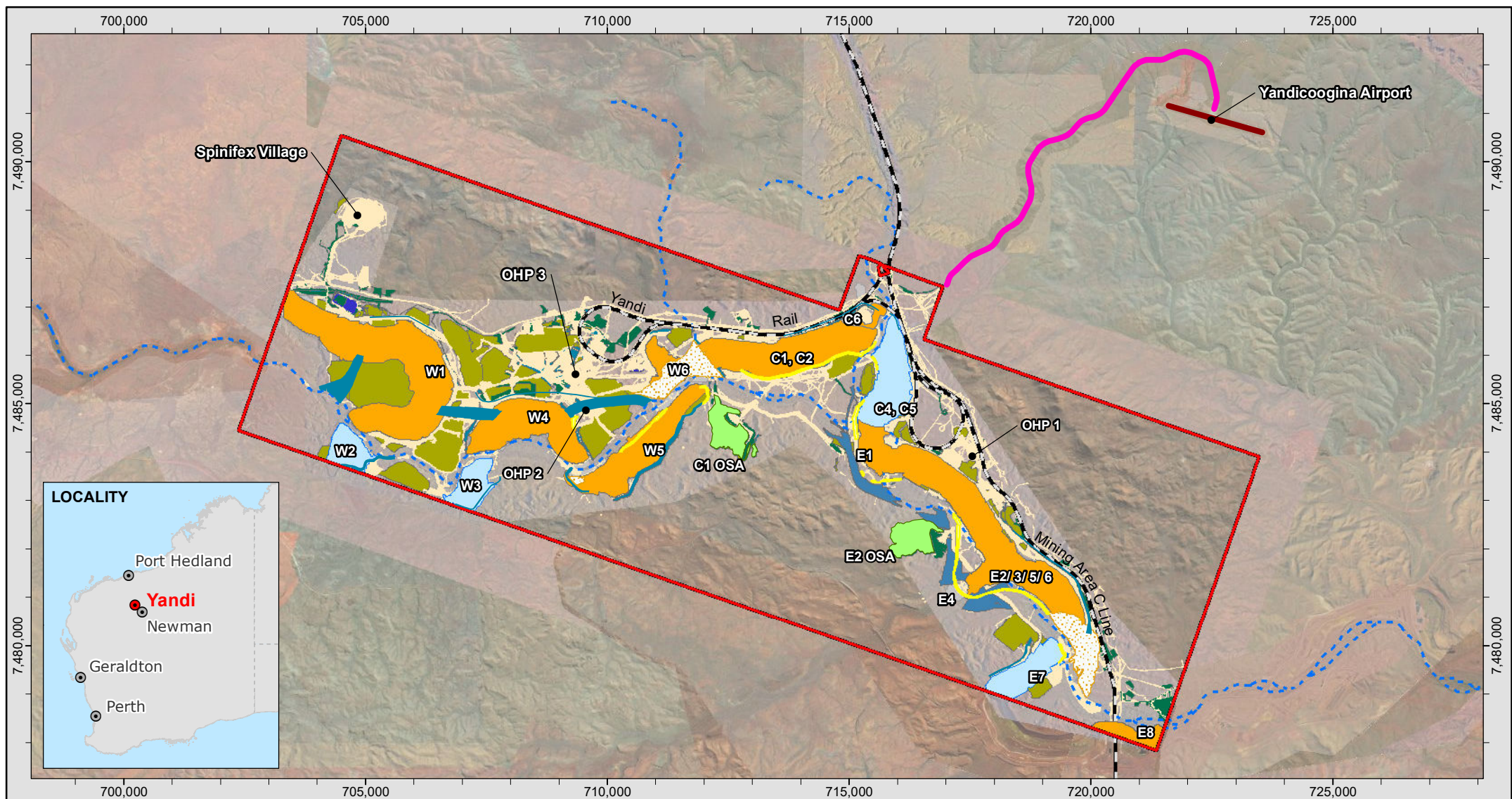
Coordinate System: GDA 1994 MGA Zone 50 Projection: Transverse Mercator, Datum: GDA 1994, Units: Meter

Date: 26/03/2025	Project No: A1238	Figure: 002 RevA
Prepared: C.Devlin	Checked: D.Pershke	

LEGEND

- BHP Rail
- Third Party Rail
- Great Northern Highway
- Operational BHP Project
- Undeveloped BHP Project
- Recommended Pit Design Outline
- Rio Group

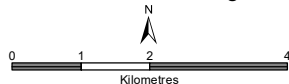
- Rio - Wright JV
- FMG Group JV
- FMG - Pilbara Iron Ore JV
- Hancock Group
- Brockman Resources
- BC Iron - Iron Ore Holdings Ltd
- Mineral Resources Ltd



BHP

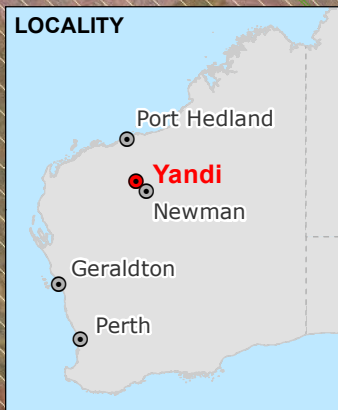
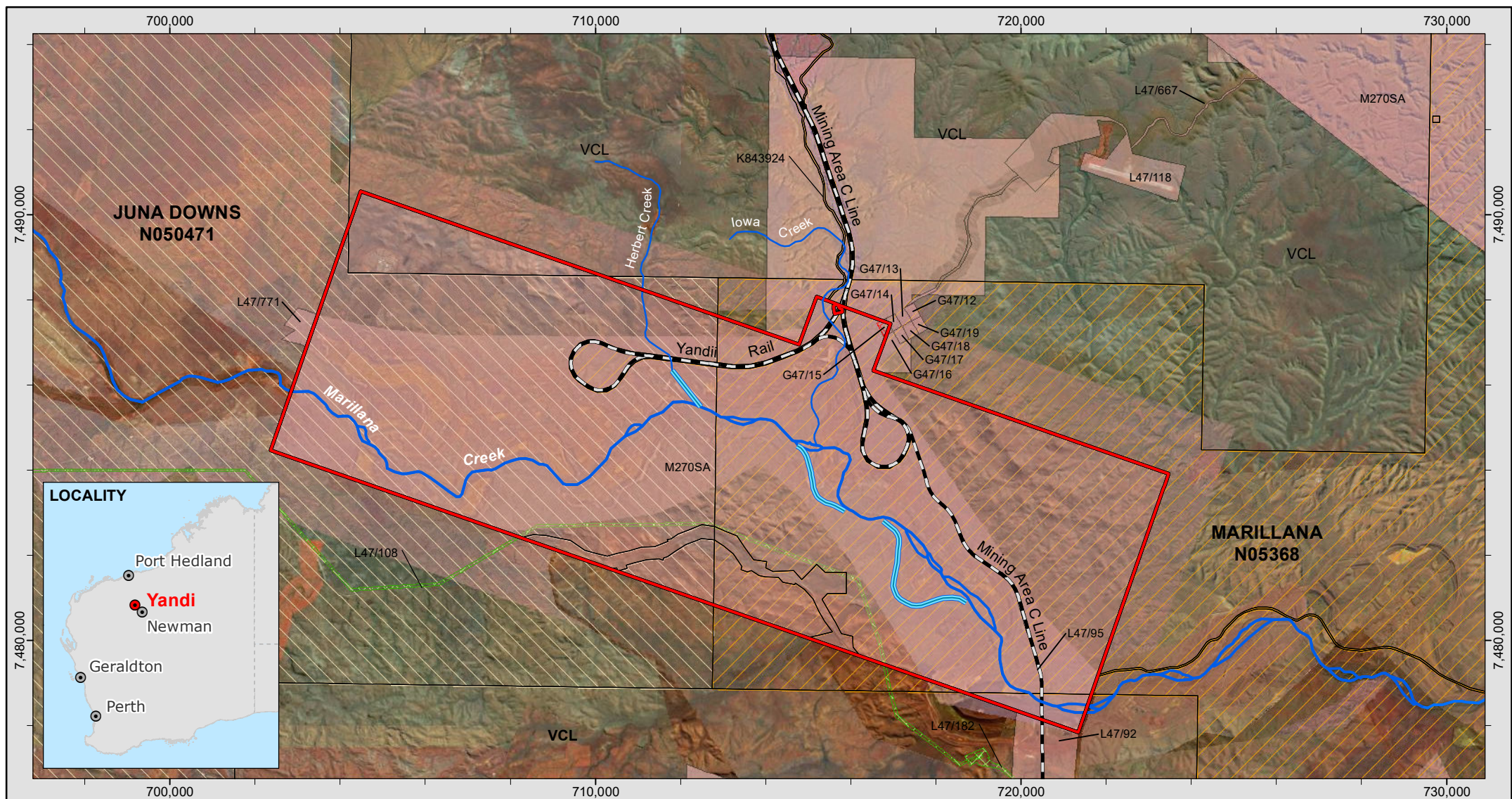
Spatial Data - Studies Planning & Access
BHP IRON ORE

YANDI CLOSURE PLAN Predicted Disturbance by Closure Domain at the End of Mining



Date: 26/03/2025 Project No: A1238 Figure: 005\RevA
Prepared: C.Devlin Checked: D.Pershke

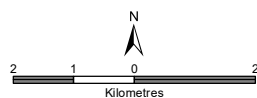
- | | |
|---|-------------------------------------|
| Airstrip | Flood plain |
| Infrastructure jointly owned with RTIO | Diversion channel or drain |
| BHP rail | Infrastructure |
| Watercourse | Landfill site |
| Development envelope | OSAs/ROM/Stockpile footprints |
| Mine void backfilled/partially backfilled | Not Applicable |
| Mine void no backfill | Ex Pit OSAs (Already Rehabilitated) |
| Flood protection bund | Current rehabilitation areas |



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YANDI CLOSURE PLAN Tenure

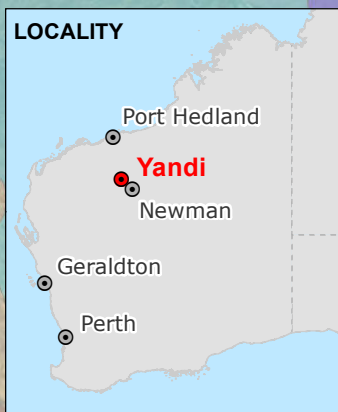
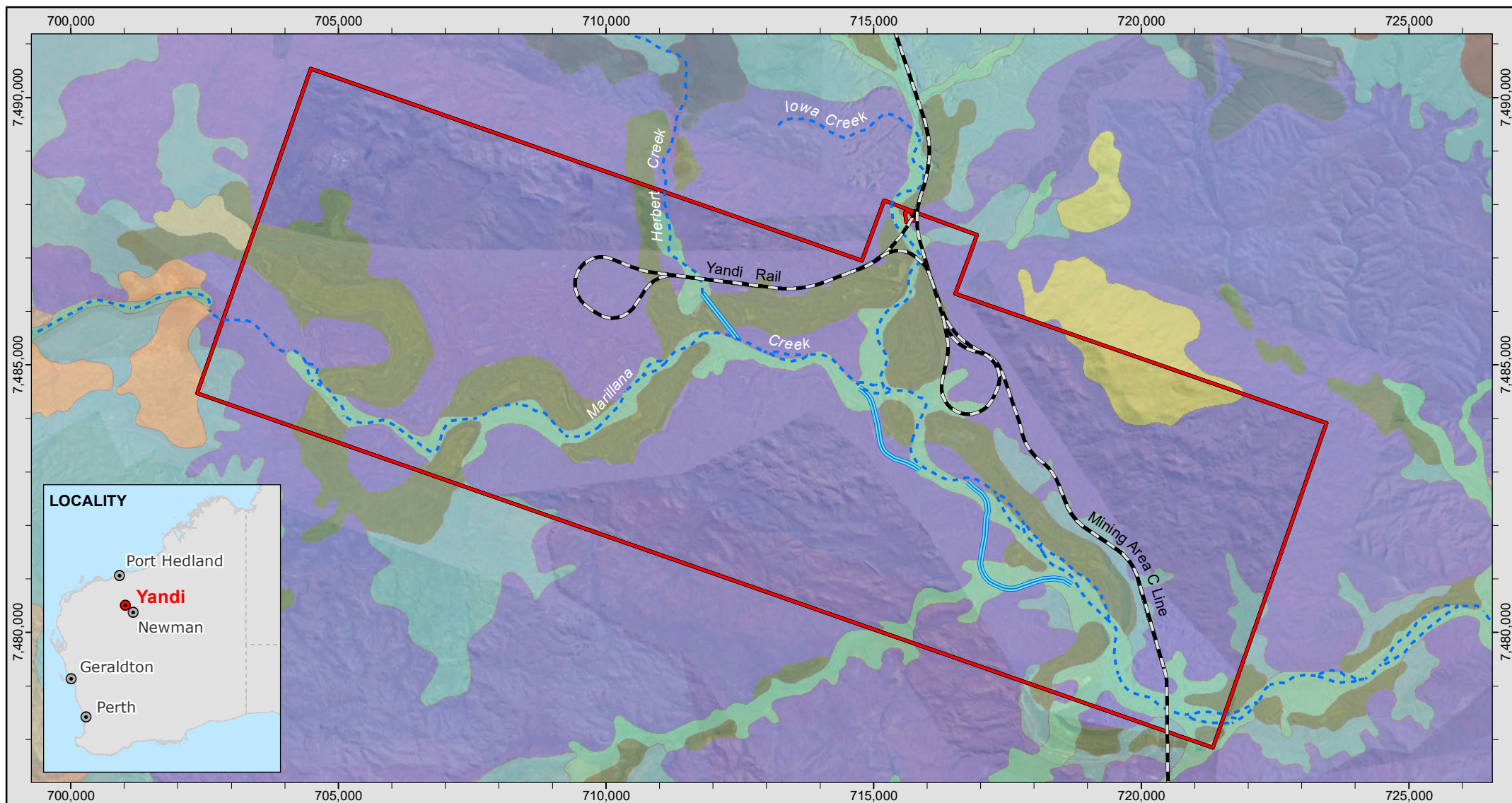


Coordinate System: GDA 1994 MGA Zone 50 Projection: Transverse Mercator, Datum: GDA 1994, Units: Meter

Date: 7/02/2024	Project No: A1238	Figure: 026/RevA
Prepared: C.Devlin	Checked: D.Pershke	

LEGEND

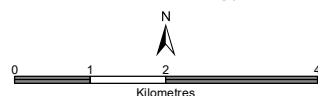
- Constructed creek diversion
- Marillana Creek
- BHP rail
- Development envelope
- Vacant crown land
- BHP tenure exclusions
- BHP tenements - granted
- Marillana Pastoral Station
- Rio Tinto tenements - granted
- Juna Downs Pastoral Station



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YANDI CLOSURE PLAN Yandi Geology



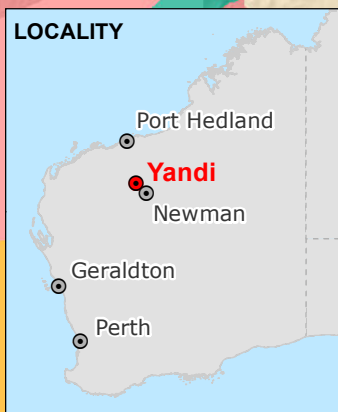
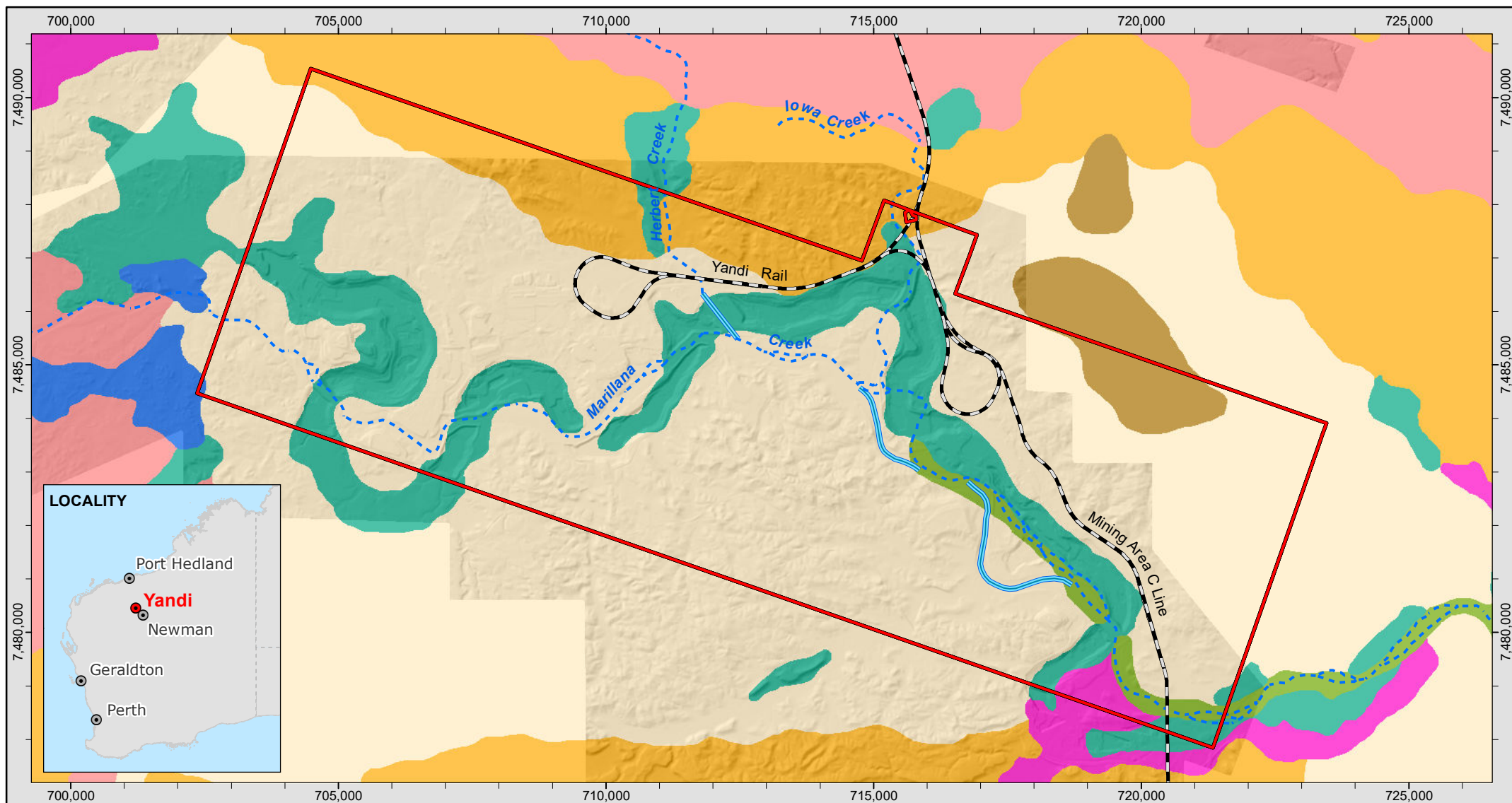
Coordinate System: GDA 1994 MGA Zone 50 Projection: Transverse Mercator, Datum: GDA 1994, Units: Meter

Date: 26/03/2025	Project No: A1238	Figure: 009 RevA
Prepared: C.Devlin	Checked: D.Pershke	

LEGEND

- BHP rail
- Watercourse
- Constructed creek diversion
- Development envelope
- PLHb: Brockman Iron Formation
- PLHj: Weeli Wolli Formation
- PLHt: Dolerite
- Czc: Colluvium - partly consolidated

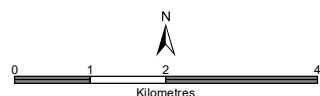
- Czk: Calcrete
- Czp: Robe Pisolite (Channel Iron Deposit)
- Czir: Hematite-goethite deposits
- Qa: Alluvium
- Qc: Colluvium - unconsolidated



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YANDI CLOSURE PLAN Land Systems of the Yandi Lease and Surrounds



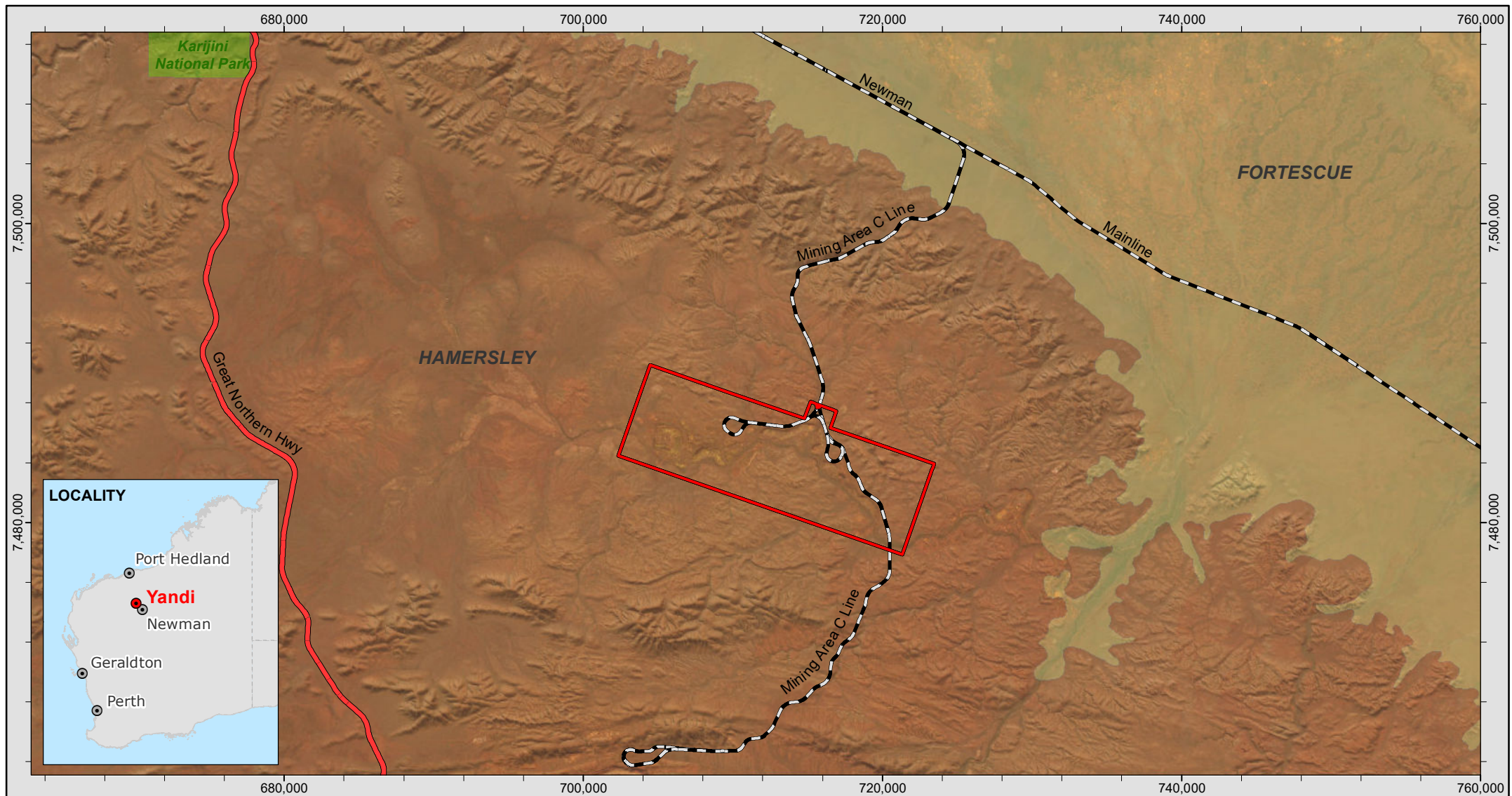
Coordinate System: GDA 1994 MGA Zone 50 Projection: Transverse Mercator, Datum: GDA 1994, Units: Meter

Date: 26/03/2025	Project No: A1238	Figure: 010 RevA
Prepared: C.Devlin	Checked: D.Pershke	

LEGEND

- BHP rail
- Watercourse
- Constructed creek diversion
- Development envelope
- Boolgeeda: Stony plains with spinifex grasslands
- McKay: Hills and ranges with spinifex grasslands

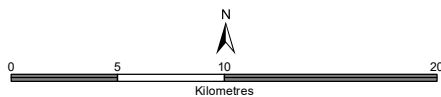
- Newman: Hills and ranges with spinifex grasslands
- Oakover: Mesas, breakaways and stony plains with spinifex grasslands
- Platform: Stony plains with spinifex grasslands
- River: River plains with grassy woodlands and tussock grasslands
- Robe: Mesas, breakaways and stony plains with spinifex grasslands
- Rocklea: Hills and ranges with spinifex grasslands



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YANDI CLOSURE PLAN IBRA Sub-regions

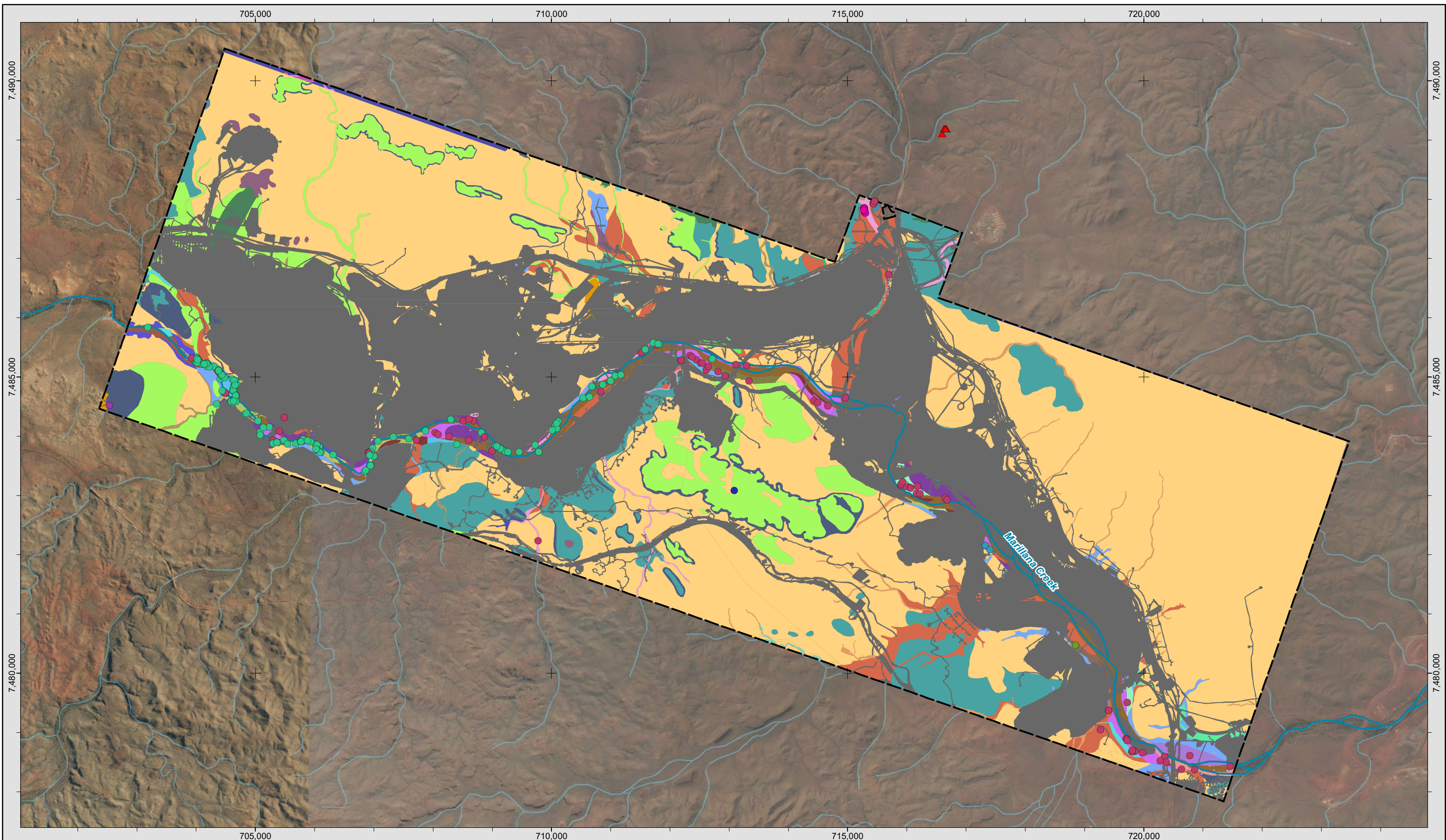


Coordinate System: GDA 1994 MGA Zone 50 Projection: Transverse Mercator, Datum: GDA 1994, Units: Meter

Date: 27/03/2025	Project No: A1238	Figure: 011\RevA
Prepared: C.Devlin	Checked: D.Pershke	

LEGEND

- Great Northern Highway
- BHP rail
- National park
- Fortescue IBRA region
- Hamersley IBRA region



- *Acacia subtiliformis* - Priority 3
- *Amaranthus centralis* - Priority 3
- *Aristida lazareidis* - Priority 2
- *Ipomoea racemigera* - Priority 2
- *Lepidium catapycnon* - Priority 4
- *Rostellularia adscendens* var. *latifolia* - Priority 3
- *Sida* sp. Barlee Range - Priority 4

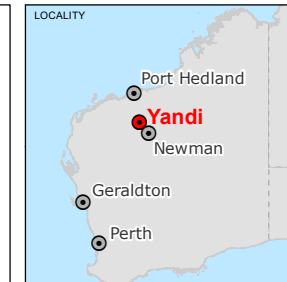
- ▲ *Isotropis parviflora*
- ▭ Development Envelope
- Marillana Creek
- Existing Disturbance

- A4/A5
- B6
- C2
- CP TwTa Ese AbPIApyp
- D1
- D10
- D13
- D2
- Disturbed
- FP AcaoAaEx Erff Tp
- FP Tp ChApr GrwhApypAb

- FP TtEuaAri EvCa GoroEroAthe
- FS Ts CdHc AancAiGrwh
- GG TtErmuThmb EIIChCf AtpGoroPI
- HC TbTw Erfr AbAk
- HC Tw AiAb InrSeao
- HC TwTbTp EIICh AmaGrwhAb
- HS TsTwTp EIICh AhiAaa
- HS TwTbTs EIIExCh PtcPtasAhi
- HS TwTpTs EII AprAaAanc
- MAAaAciApr CcTtChf EvEcr

- MA AciAcpAthe Tp EteEnl
- MA CcCs Aci EcrEv
- MA CocTerfc EcrEv EteCcEpd
- MA EcrEv AciAcp Mg
- MA EcrEvEx ApypAtpGoro TtEuaCyp
- MA EcrEvMa AcpAamAthe TydCyy
- MA Ev TefcCocrApy TtSoplCyy
- MA EvAciEcr TercCocrApyp CcEuaTt
- MA MaEcrEv MgAcpAtr Cyy
- MA PtEcr TdScsuCyy

- ME TpTlo ExAciCh PIApypGoro
- ME TtChfEua ExEvCh PIAPApy
- ME TtEuaEte ApypAtpPI EvCh
- MI AbAdAma Tp TtPamuEua
- MI AtpPIAm TpTs ChEII
- SA Aa TpTwTb CcChf
- SP AaApr TmTwTp TtChfAri
- SP DyrTrhPta
- SP TbTp HIAancAi Ch
- Watercourse

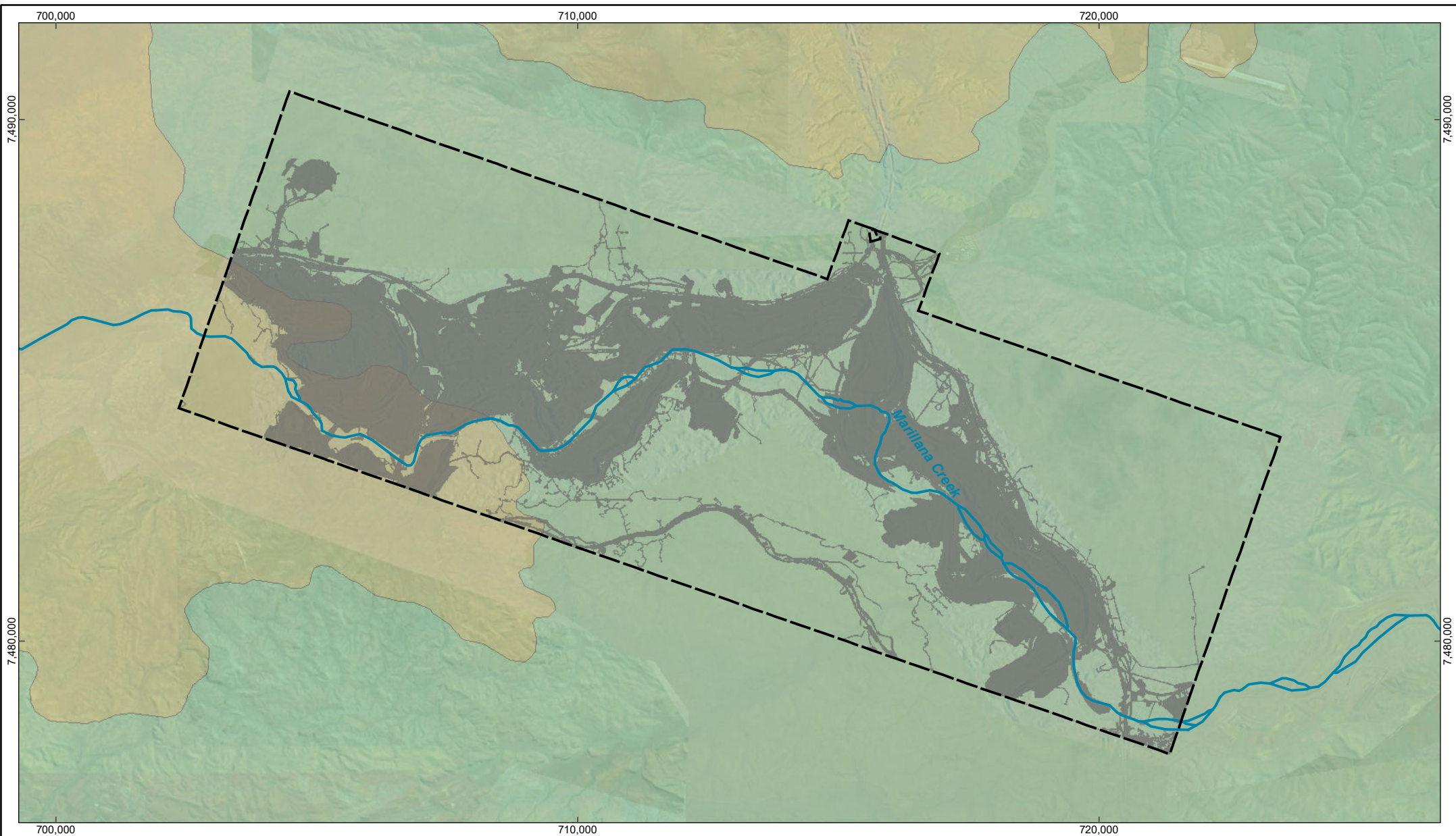


BHP
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YANDI CLOSURE PLAN
Vegetation Communities and Conservation Significant Flora

Coordinate System: GDA 1994 MGA Zone 50
Projection: Transverse Mercator, Datum: GDA 1994, Units: Meter

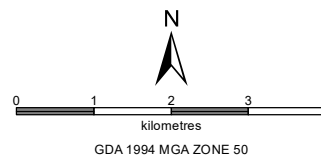
Scale @ A3: 1:60,000	Prepared: C.Devlin	Project No: A1238
Date: 27/03/2025	Checked: D.Pershke	Figure: 012RevB



- Marillana Creek
- Development Envelope
- Existing Disturbance

Beard's Pre-European Vegetation Classification

- Association 82 – hummock grasslands, low tree steppe and snappy gums over *Triodia wiseana*
- Association 18 – low mulga woodland dominated by *Acacia aneura*



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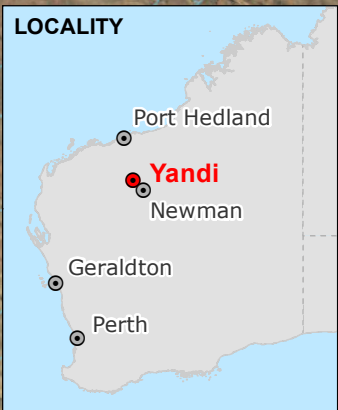
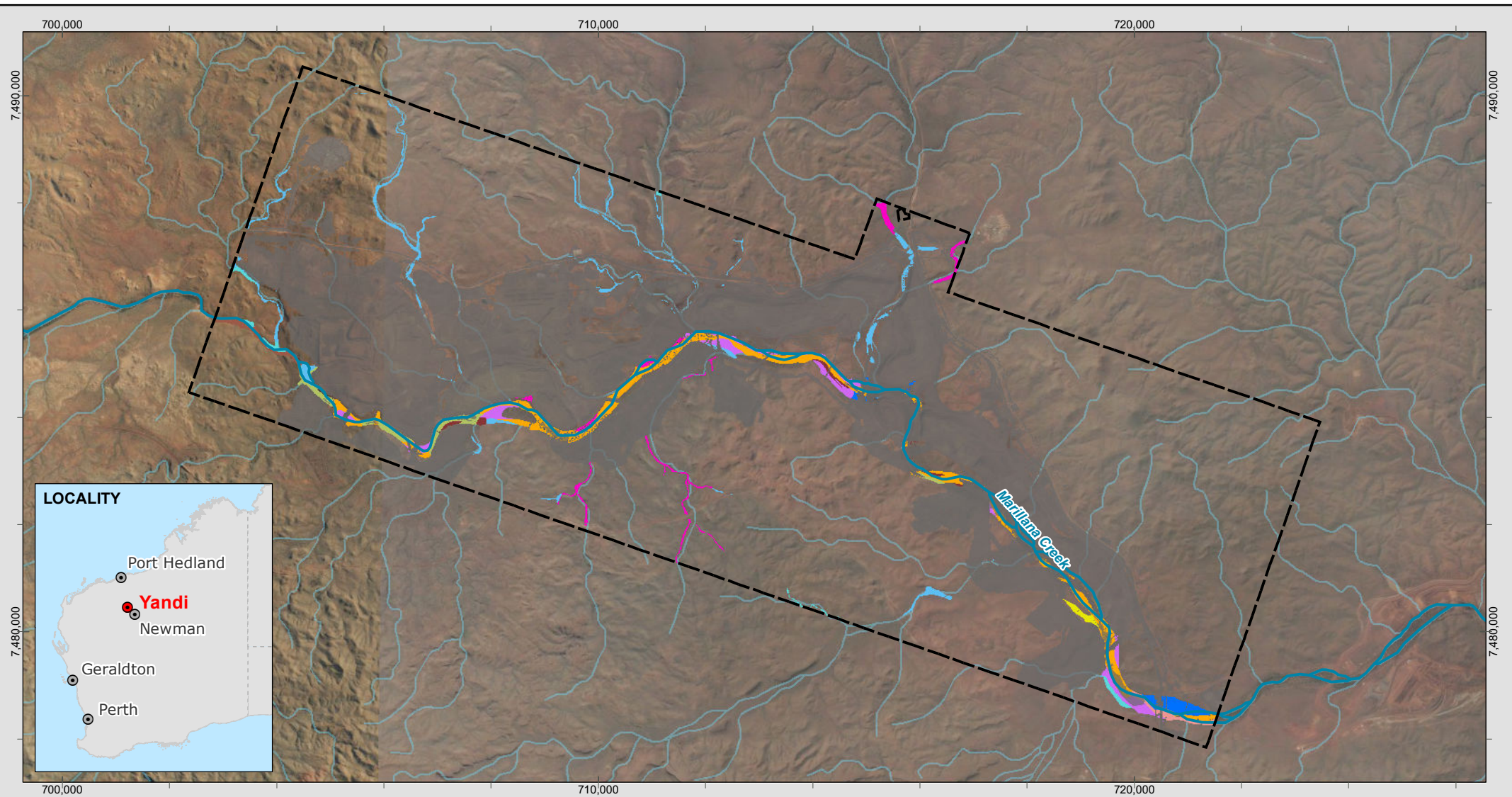
PUBLIC

**YANDI SIGNIFICANT AMENDMENT
BEARD VEGETATION ASSOCIATIONS**

PLANNING & STANDARDS - IRON ORE

SCALE @ A4: 1:98,000	PREPARED: SPATIAL DATA	FIGURE: 8-3	
DATE: 23/02/2024	REQUESTOR: ENV APPROVALS		

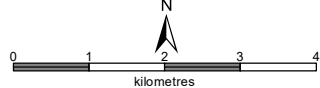
A1205-007-RevA



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Spatial Data - Studies Planning & Access
BHP IRON ORE

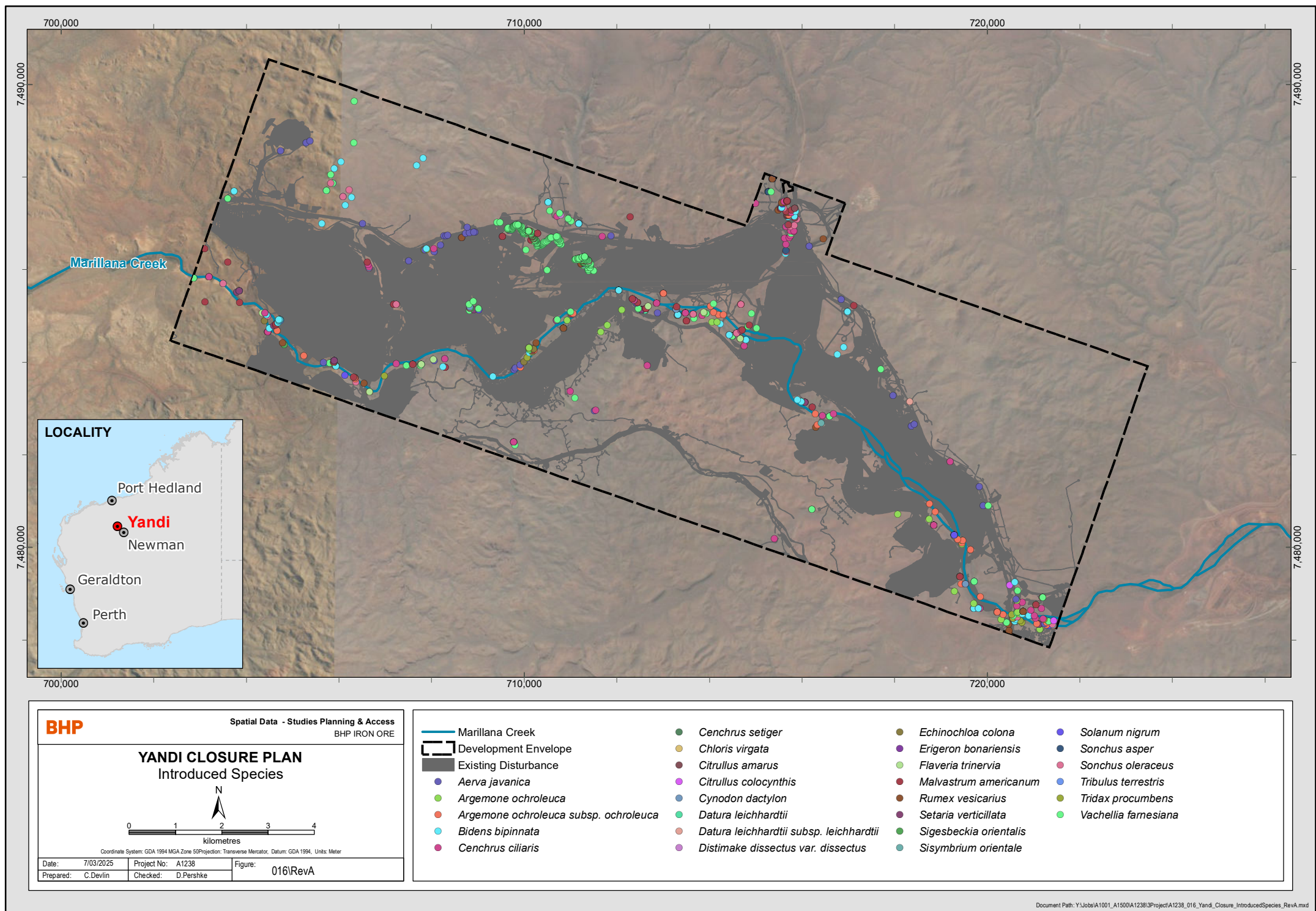
YANDI CLOSURE PLAN Ecosystems at Risk

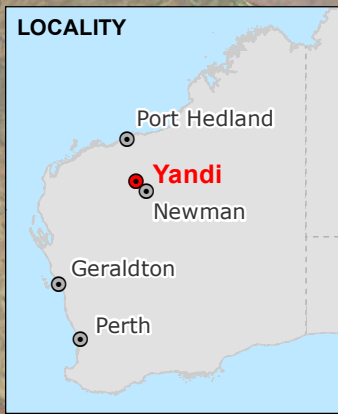
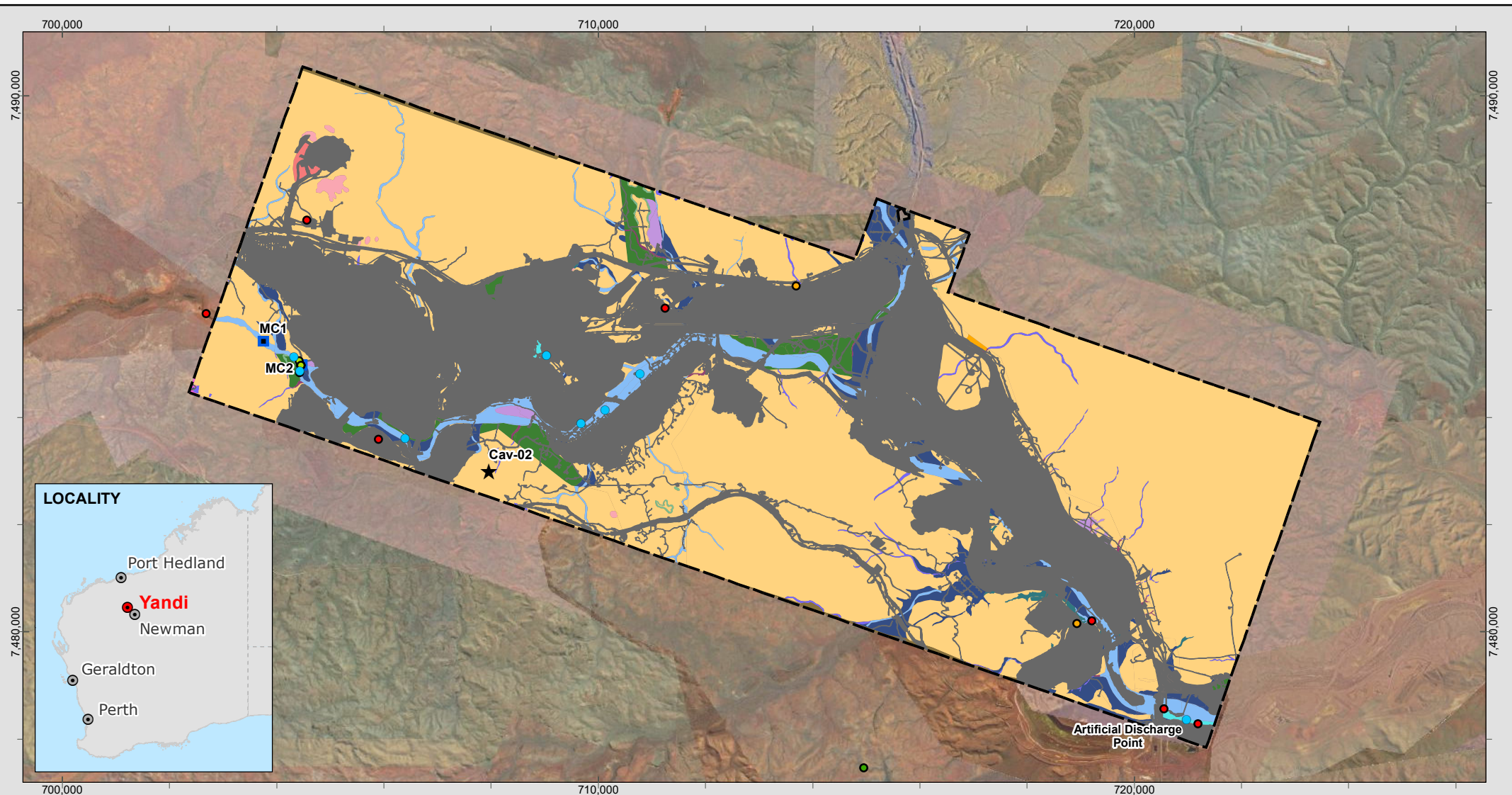


Coordinate System: GDA 1994 MGA Zone 50 Projection: Transverse Mercator, Datum: GDA 1994, Units: Meter

Date: 27/03/2025	Project No: A1238	Figure: 014 RevA
Prepared: C.Devlin	Checked: D.Pershke	

- Marillana Creek
- Development Envelope
- Existing Disturbance
- Major ephemeral watercourse vegetation**
- FP TtEuaAri EvCa GoroErloAthe
- MA CcCs Aci EcrEv
- MA CocrTerfc EcrEv EteCcEpd
- MA EcrEvEx ApypAtpGoro TtEuaCyp
- MA EcrEvMa AcpAamAthe TydCyp
- MA EcrEv AciAcp Mg
- MA EcrEv AcpAtheEv TpTI
- MA EvAciEcr TercCocrApyp CcEuaTt
- MA MaEcrEv MgAcpAtr Cyv
- MA Pt Ecr TdScsuCyv
- ME TtEuaEte ApypAtpPI EvCh





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YANDI CLOSURE PLAN
Fauna habitats and conservation significant fauna observations

Coordinate System: GDA 1994 MGA Zone 50 Projection: Transverse Mercator, Datum: GDA 1994, Units: Meter

Date: 7/03/2025	Project No: A1238	Figure: 017/RevA
Prepared: C.Devlin	Checked: D.Pershke	

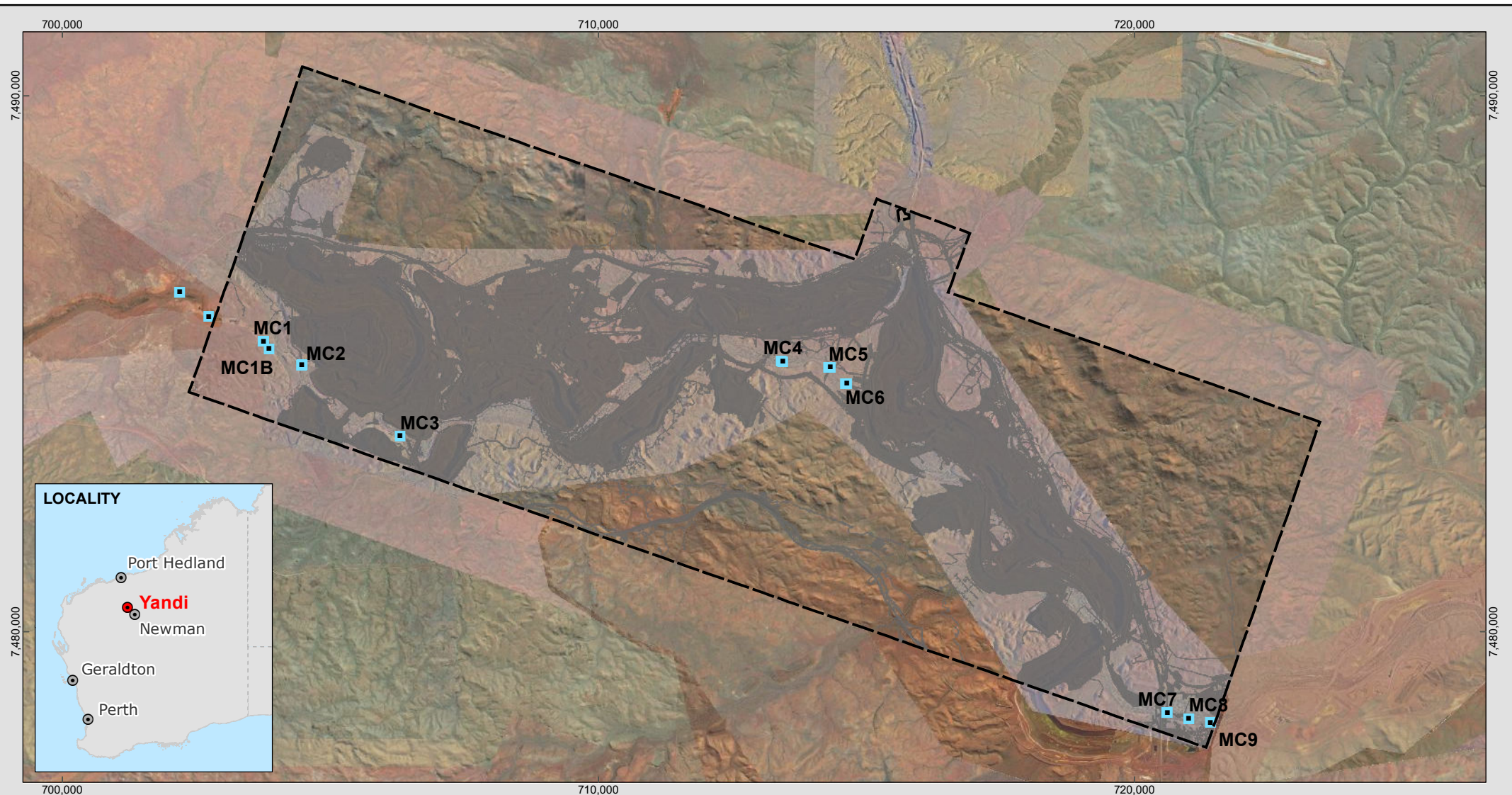
Waterholes previously recorded in surveys
 Permanent / semi-permanent natural water features
 Ghost Bat Cave
 Development Envelope

Conservation Significant Vertebrate Fauna

- Pilbara Olive Python (*Liasis olivaceus subsp. barroni*)
- Northern Quoll (*Dasyurus hallucatus*)
- Common Sandpiper (*Actitis hypoleucos*)
- Peregrine falcon (*Falco peregrinus*)

Existing Disturbance
 Breakaway/Cliff
 Calcrete Plain
 Drainage Area/ Floodplain
 Hardpan Plain
 Hillcrest/Hillslope
 Major Drainage Line
 Medium Drainage Line

Minor Drainage Line
 Mulga Woodland
 No Survey Data
 Sand Plain
 Sandy/Stony Plain
 Stony Plain
 Undulating Low Hills
 Wetland





Spatial Data - Studies Planning & Access

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YANDI CLOSURE PLAN

Aquatic Fauna Sampling Locations

N

0123

kilometres

Coordinate System: GDA 1994 MGA Zone 50Projection: Transverse Mercator, Datum: GDA 1994, Units: Meter

Date: 24/03/2025	Project No: A1238	Figure: 033 RevA
Prepared: C.Devlin	Checked: D.Pershke	



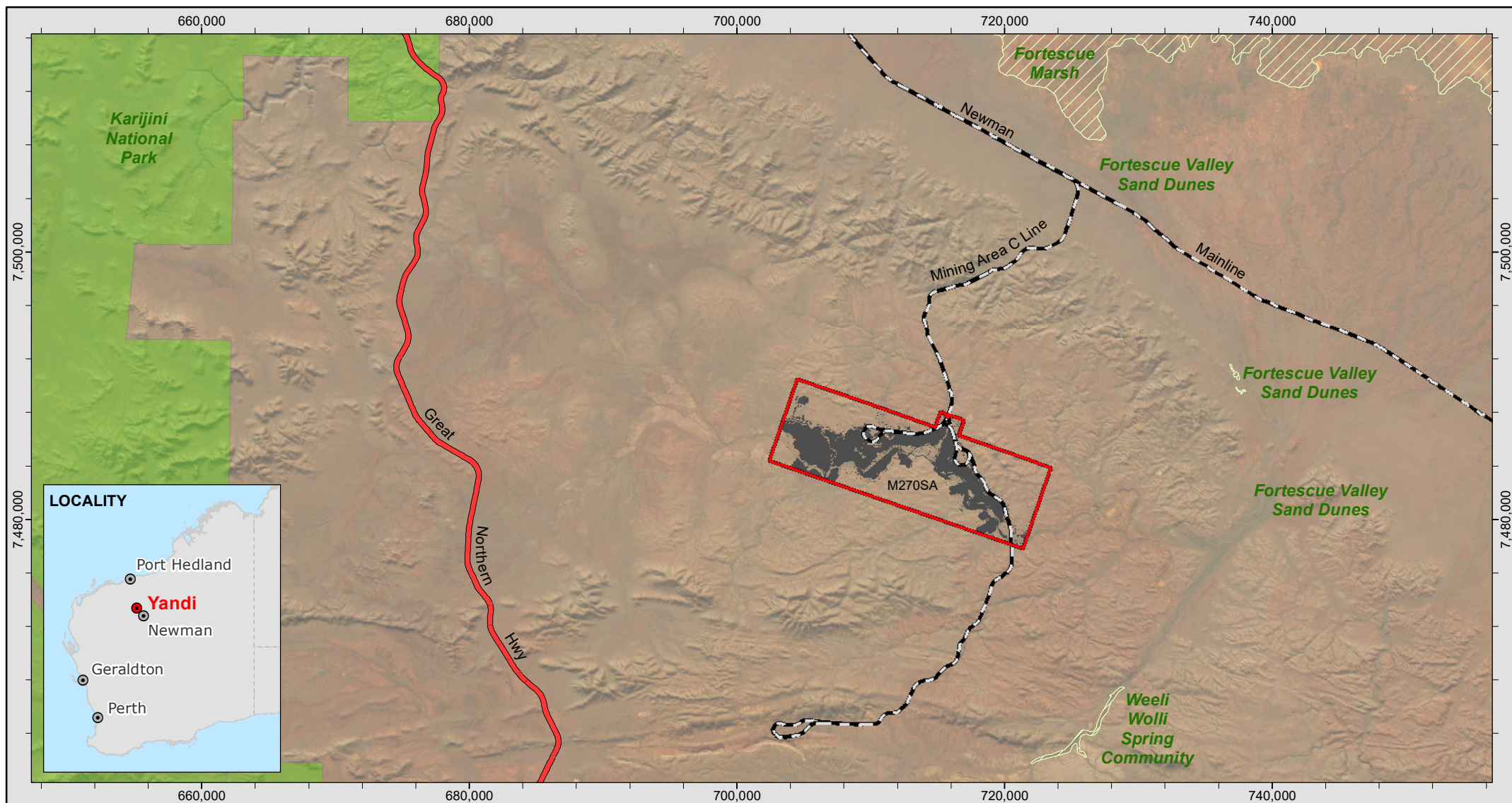
Freshwater Aquatic Fauna Sample Sites



Development Envelope



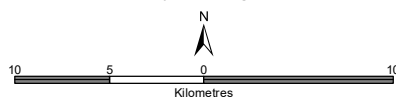
Existing Disturbance



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YANDI CLOSURE PLAN Location of priority ecological communities

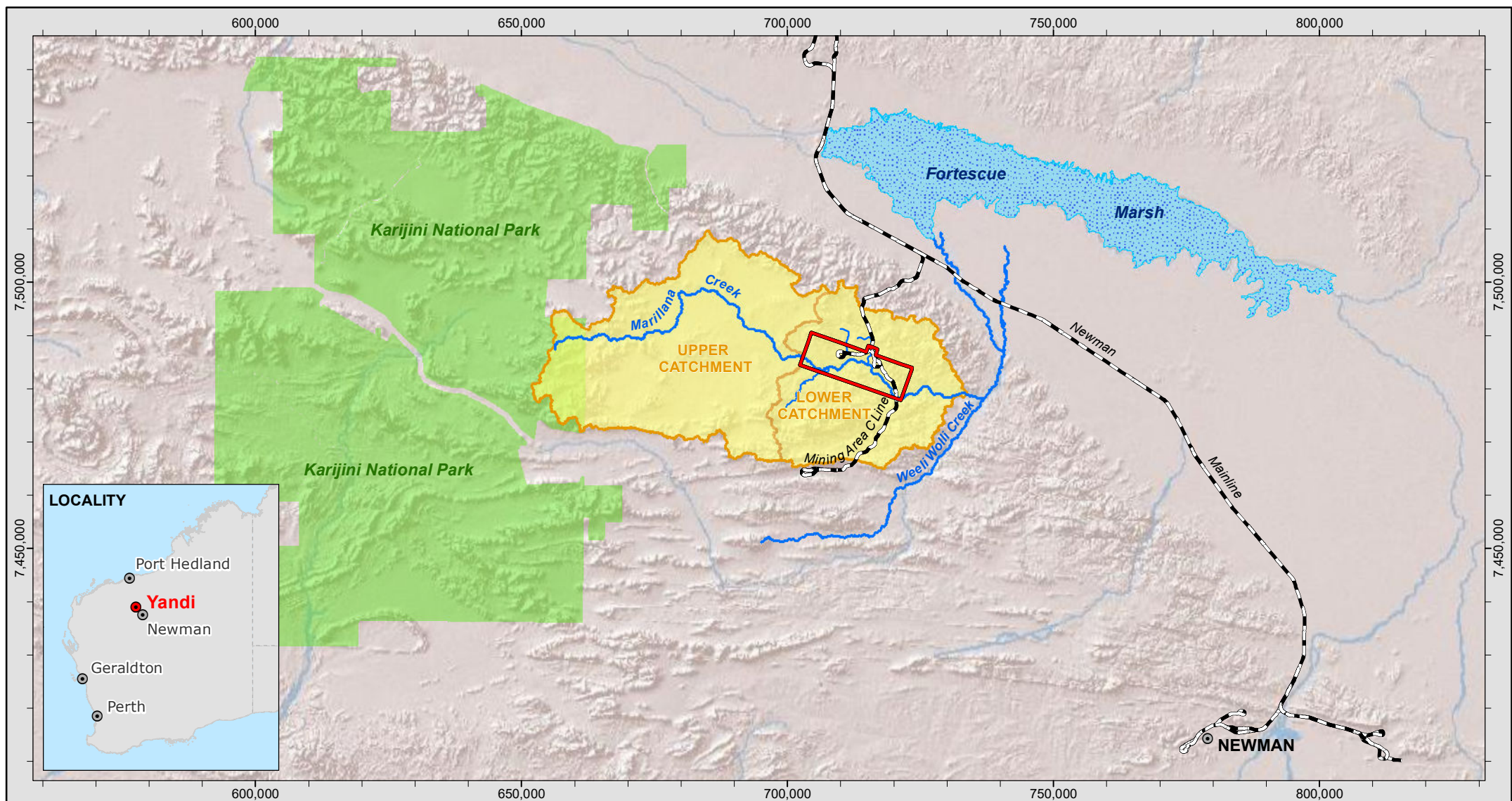


Coordinate System: GDA 1994 MGA Zone 50 Projection: Transverse Mercator, Datum: GDA 1994, Units: Meter

Date: 7/03/2025	Project No: A1238	Figure: 015\RevA
Prepared: C.Devlin	Checked: D.Pershke	

LEGEND

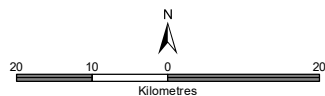
- BHP rail
- Great Northern Highway
- Development envelope
- Priority ecological community
- National park
- Disturbed



BHP

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YANDI CLOSURE PLAN Catchment overview

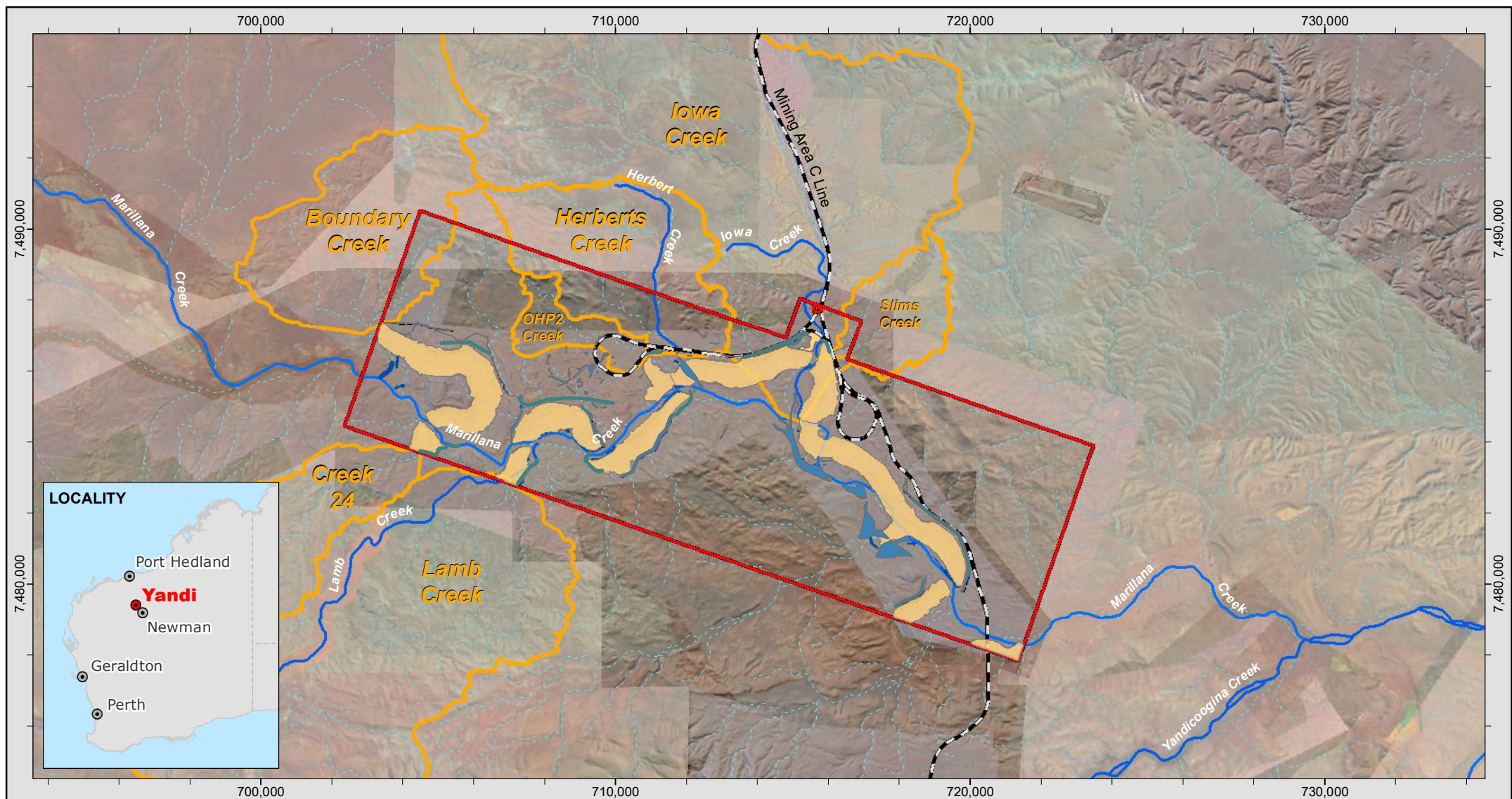


Coordinate System: GDA 1994 MGA Zone 50 Projection: Transverse Mercator, Datum: GDA 1994, Units: Meter

Date: 7/03/2025	Project No: A1238	Figure: 019 RevA
Prepared: C.Devlin	Checked: D.Pershke	

LEGEND

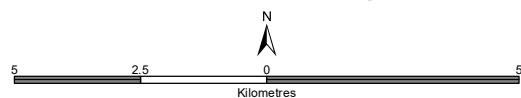
- BHP rail
- Major drainage
- Development envelope
- Marillana Creek catchment
- National park
- Fortescue Marsh



BHP

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 BHP IRON ORE

YANDI CLOSURE PLAN Surface water drainage

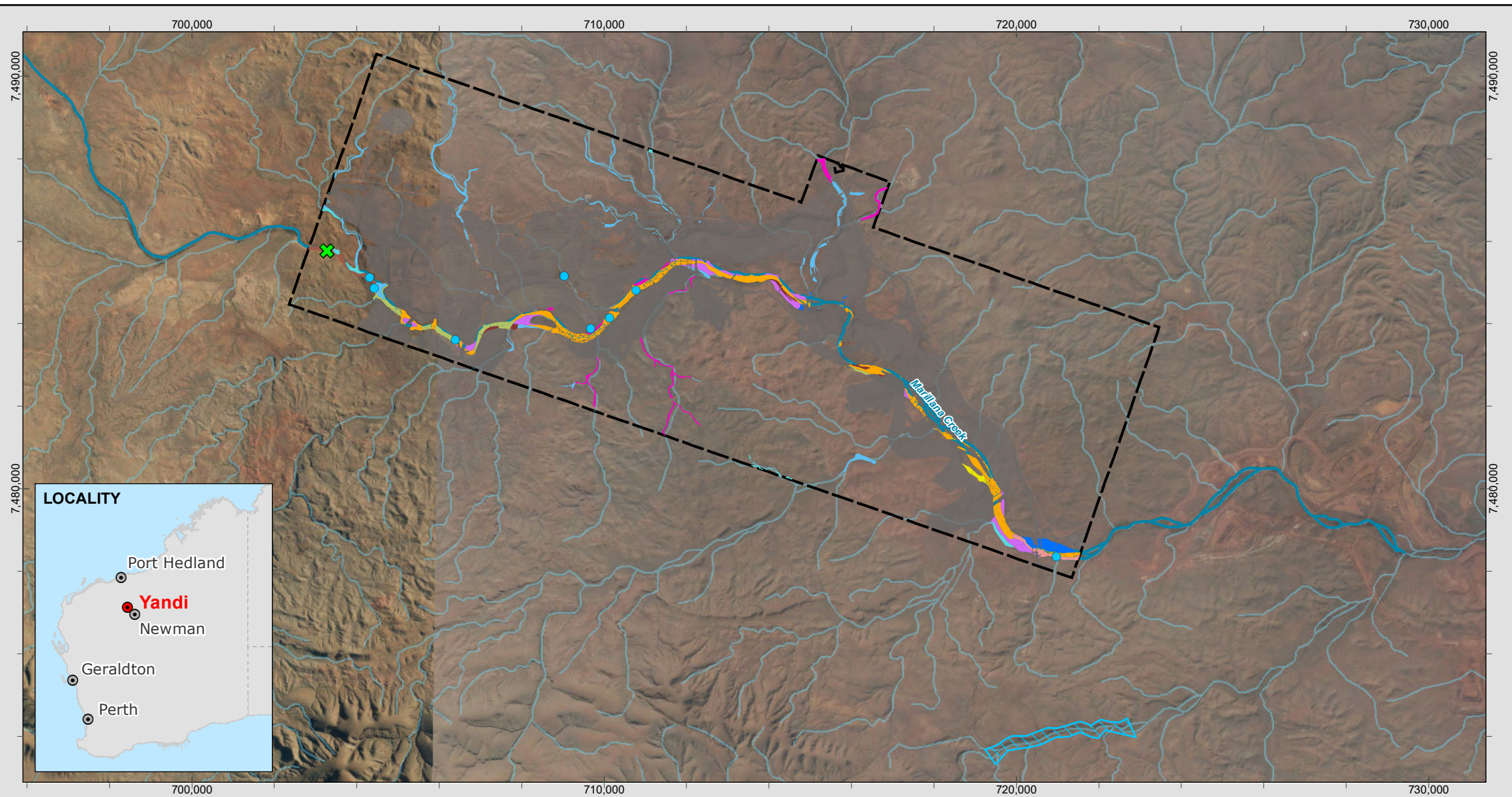


Coordinate System: GDA 1994 MGA Zone 50 Projection: Transverse Mercator, Datum: GDA 1994, Units: Meter

Date: 4/04/2025	Project No: A1238	Figure: 020\RevB
Prepared: C.Devlin	Checked: D.Pershke	

LEGEND

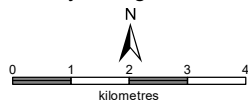
- BHP rail
- Major drainage
- Existing minor diversion drains
- Constructed creek diversions
- Yandi catchments
- Indicative mining area
- Development envelope



BHP

Spatial Data - Studies Planning & Access
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YANDI CLOSURE PLAN Ecohydrological Assets



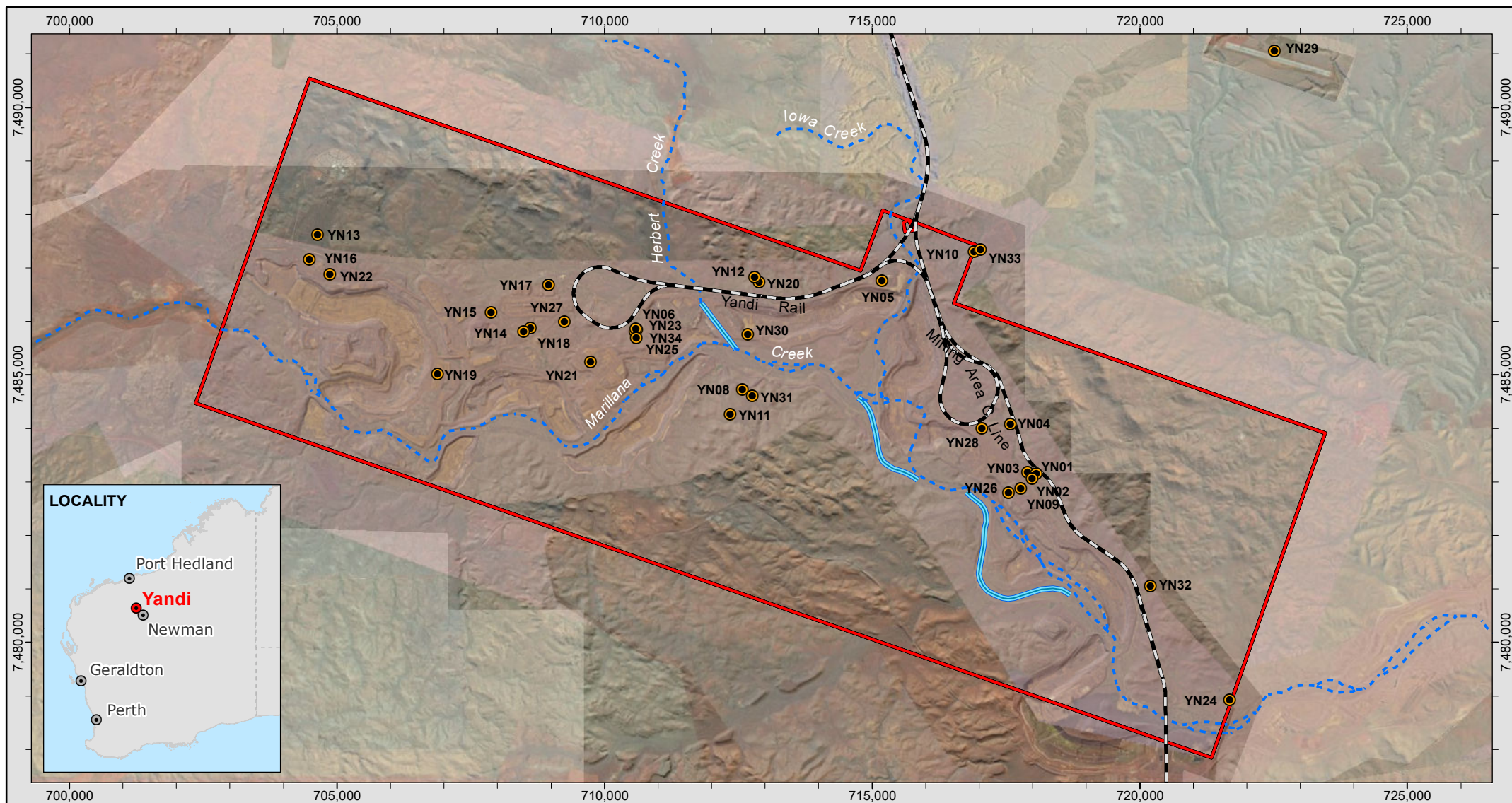
Coordinate System: GDA 1994 MGA Zone 50 Projection: Transverse Mercator, Datum: GDA 1994, Units: Meter

Date: 7/03/2025	Project No: A1238	Figure: 032 RevA
Prepared: C.Devlin	Checked: D.Pershke	

- ✕ Flat Rocks Pools
- Pools previously recorded in surveys
- Marillana Creek
- Yandicoogina Gorge
- Development Envelope
- Existing Disturbance

Major ephemeral watercourse vegetation

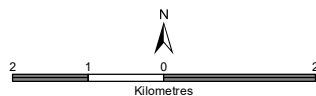
- | | |
|--|--|
| FP TtEuaAri EvCa GoroErloAthe | MA EcrEv AciAcp Mg |
| MA CcCs Aci EcrEv | MA EcrEv AcpAtheEv TpTI |
| MA CocrTerfc EcrEv EteCcEpd | MA EvAciEcr TercCocrApyy CcEuaTt |
| MA EcrEvEx ApypAtpGoro TtEuaCyp | MA MaEcrEv MgAcpAtr Cyv |
| MA EcrEvMa AcpAamAthe TydCyv | MA Pt Ecr TdScsuCyv |
| | ME TtEuaEte ApypAtpPI EvCh |



BHP

Spatial Data - Studies Planning & Access
BHP IRON ORE

YANDI CLOSURE PLAN Location of contaminated targets

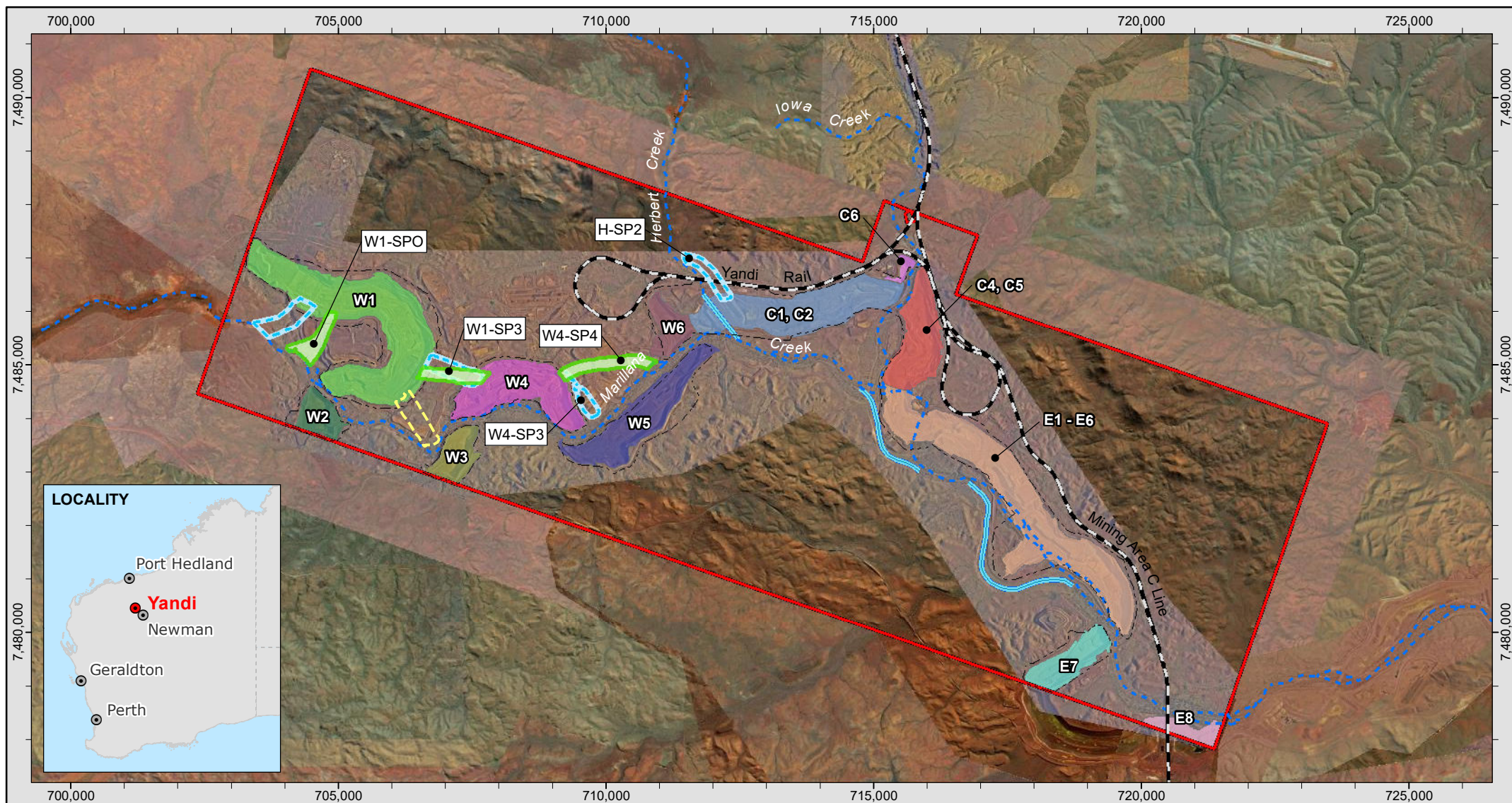


Coordinate System: GDA 1994 MGA Zone 50 Projection: Transverse Mercator, Datum: GDA 1994, Units: Meter

Date: 7/03/2025	Project No: A1238	Figure: 024 RevA
Prepared: C.Devlin	Checked: D.Pershke	

LEGEND

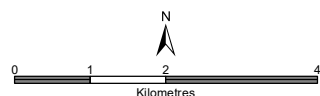
- Contaminated site
- BHP rail
- Watercourse
- Constructed creek diversion
- Development envelope



BHP

Spatial Data - Studies Planning & Access
BHP IRON ORE

YANDI CLOSURE PLAN Flood Channel Locations



Coordinate System: GDA 1994 MGA Zone 50 Projection: Transverse Mercator, Datum: GDA 1994, Units: Meter

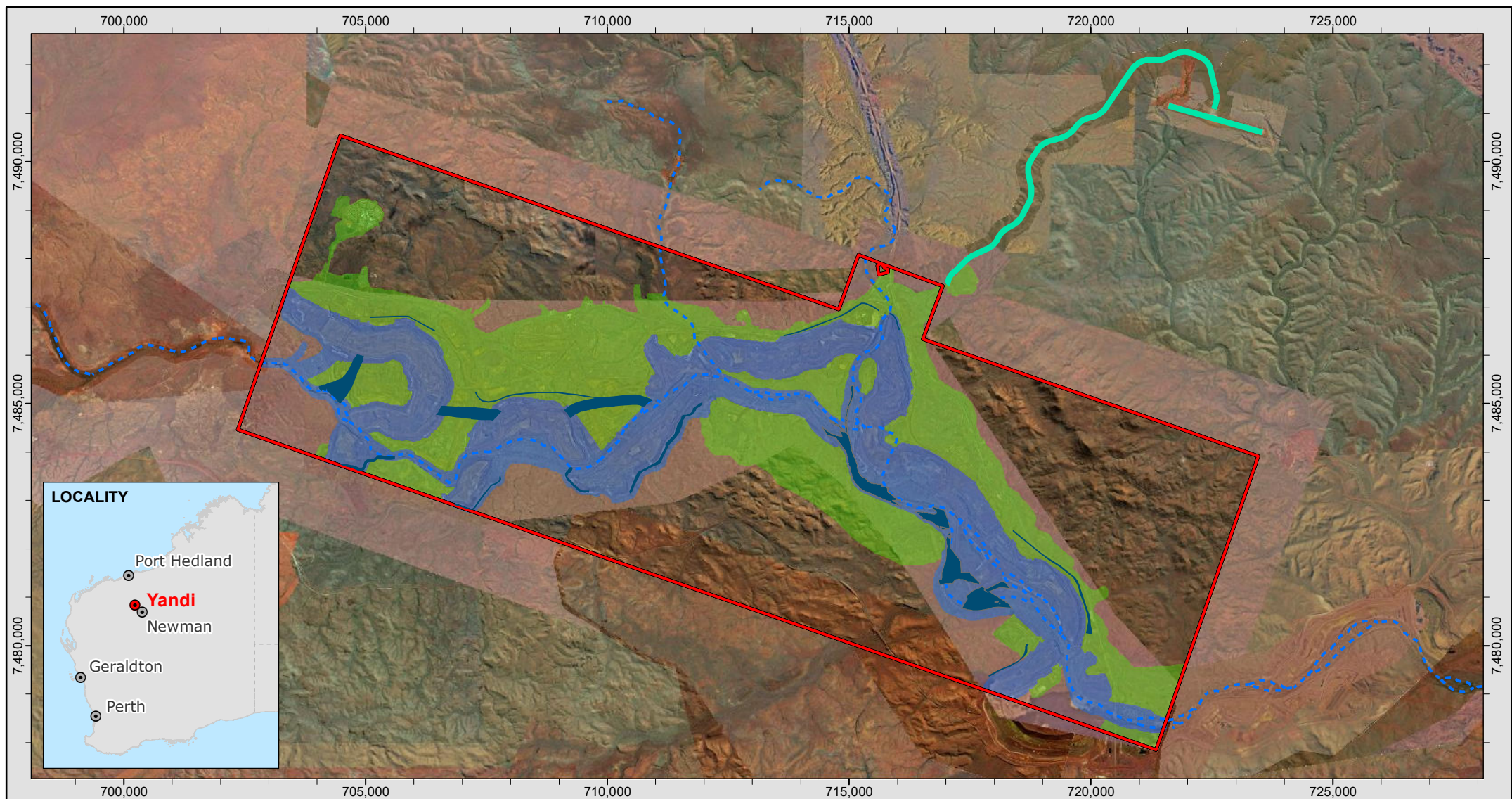
Date: 2/04/2025 Project No: A1238 Figure: 025\RevA
Prepared: C.Devlin Checked: D.Pershke

LEGEND

- BHP rail
- Watercourse
- Constructed creek diversion
- Flood channels shown in the 2020 MCP
- Revised flood channel locations
- Alternate W1-SP4 flood channel location analysed
- Safety bunds

- Development envelope
- C1, C2 Pit
- C4, C5 Pit
- C6 Pit
- E1 - E6 Pit
- E7 Pit
- E8 Pit

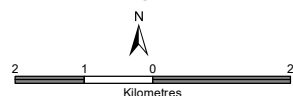
- W1 Pit
- W2 Pit
- W3 Pit
- W4 Pit
- W5 Pit
- W6 Pit



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YANDI CLOSURE PLAN Post mining land use

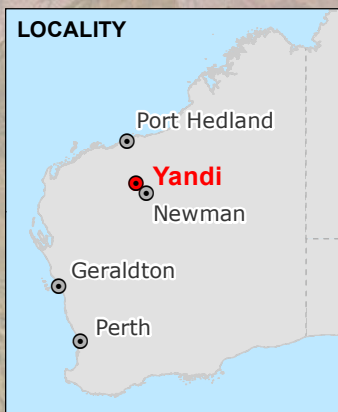
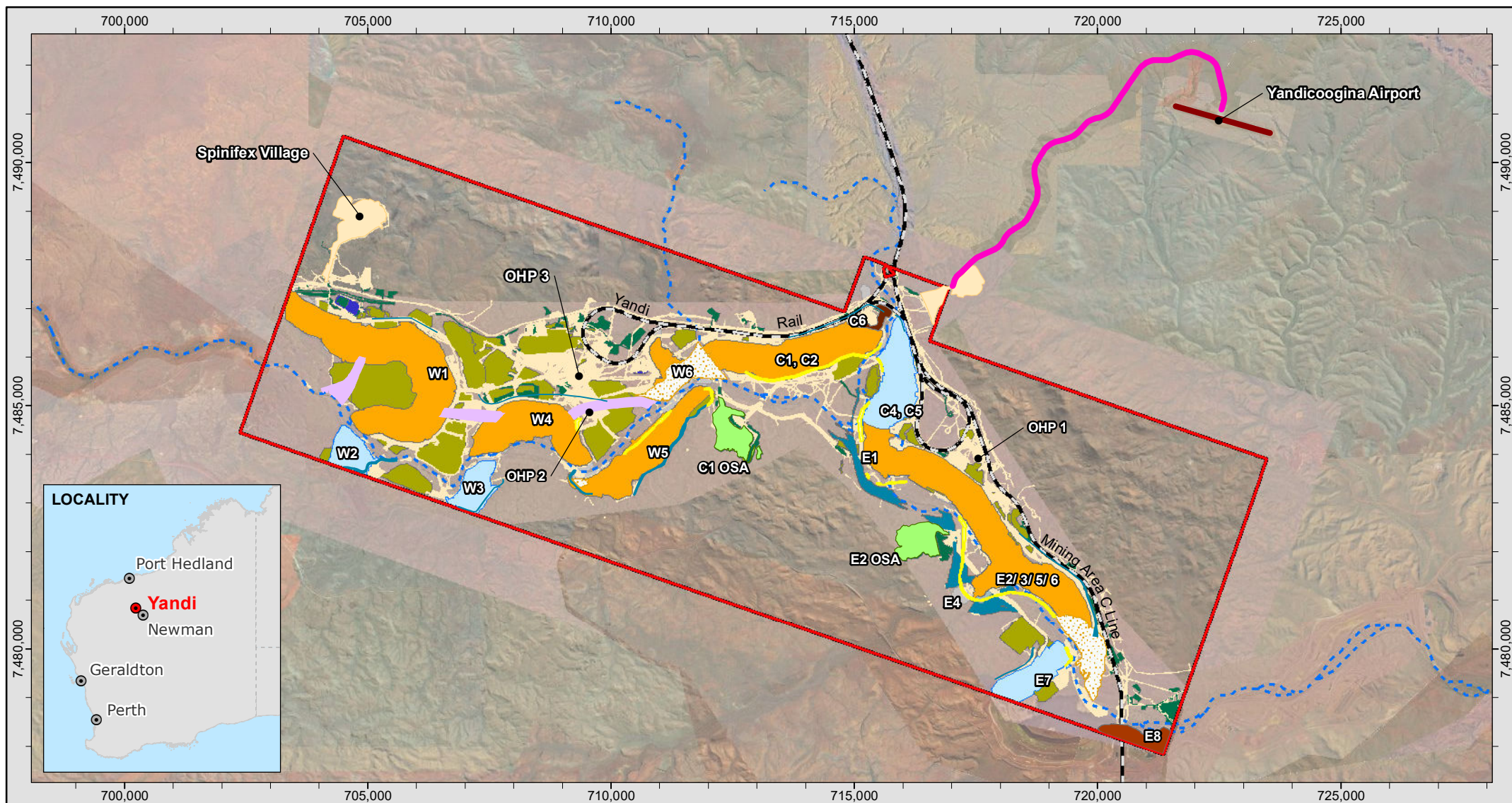


Coordinate System: GDA 1994 MGA Zone 50 Projection: Transverse Mercator, Datum: GDA 1994, Units: Meter

Date: 4/05/2024	Project No: A1238	Figure: 026\RevA
Prepared: C.Devlin	Checked: D.Pershke	

LEGEND

- Watercourse
- Natural environment for managed resource protection
- Range of terrestrial and aquatic environments with land use to be determined
- Relatively natural environments for pastoral grazing purposes
- Relatively natural environment not inconsistent with pastoral use
- Development envelope



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YANDI CLOSURE PLAN

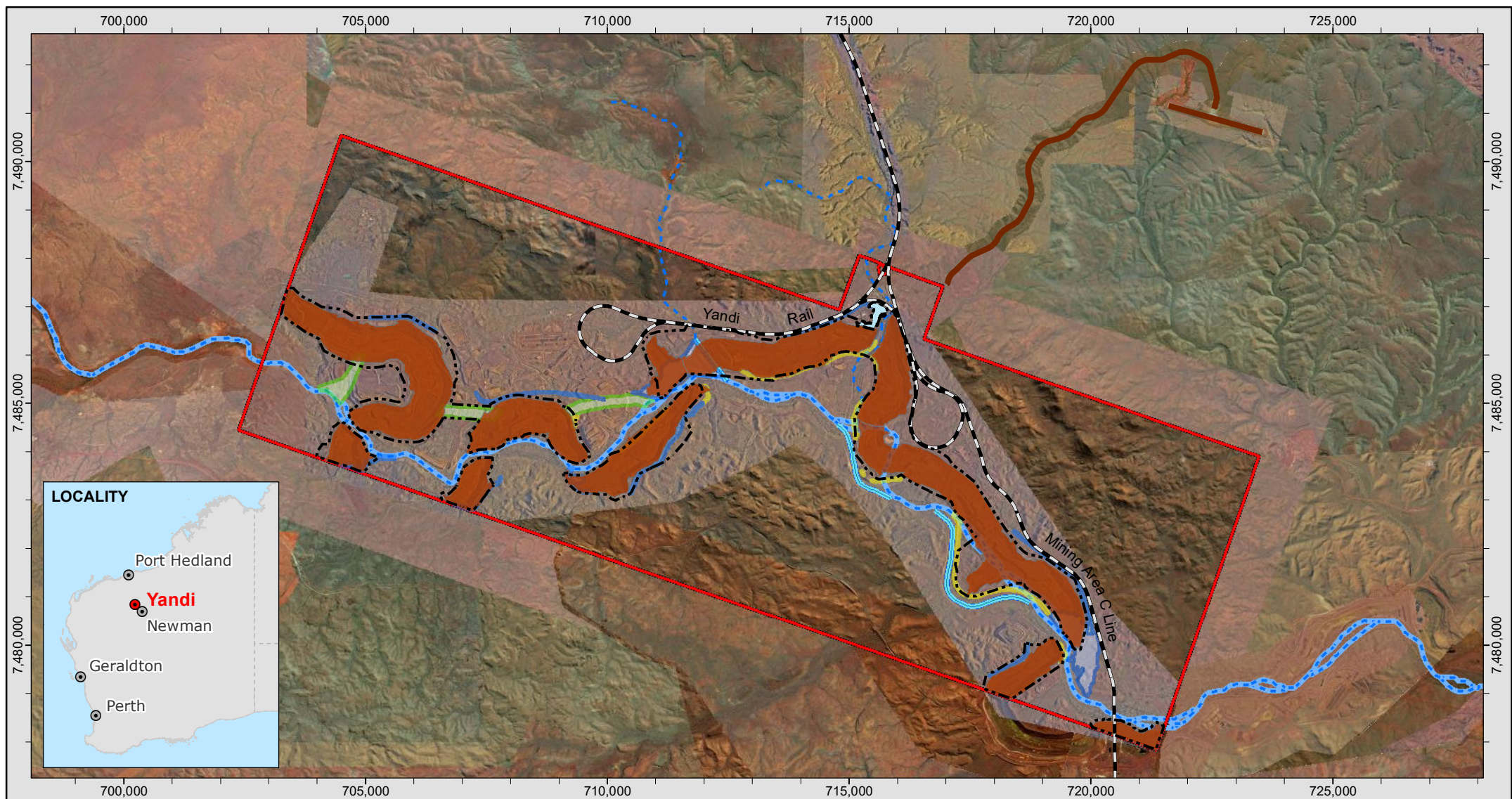
Closure Domains

2 1 0 2
Kilometres

Coordinate System: GDA 1994 MGA Zone 50 Projection: Transverse Mercator, Datum: GDA 1994, Units: Meter

Date: 4/05/2024	Project No: A1238	Figure: 006\RevB
Prepared: C.Devlin	Checked: D.Pershke	

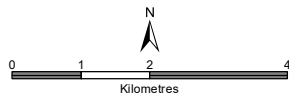
- | | | |
|---|-------------------------------------|----------------------|
| Airstrip | Permanent pit lake | Development envelope |
| Infrastructure jointly owned with RTIO | Flood protection bund | |
| BHP rail | Flood plain | |
| Watercourse | Infrastructure | |
| Flood channel | Landfill site | |
| Diversion channel | OSAs/ROM/Stockpile footprints | |
| Backfilled with no expressions of water | Not Applicable | |
| Backfilled with seasonal expressions of water | Ex Pit OSAs (Already Rehabilitated) | |
| | Current rehabilitation areas | |



BHP

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YANDI CLOSURE PLAN Indicative Locations of Safety Bunds



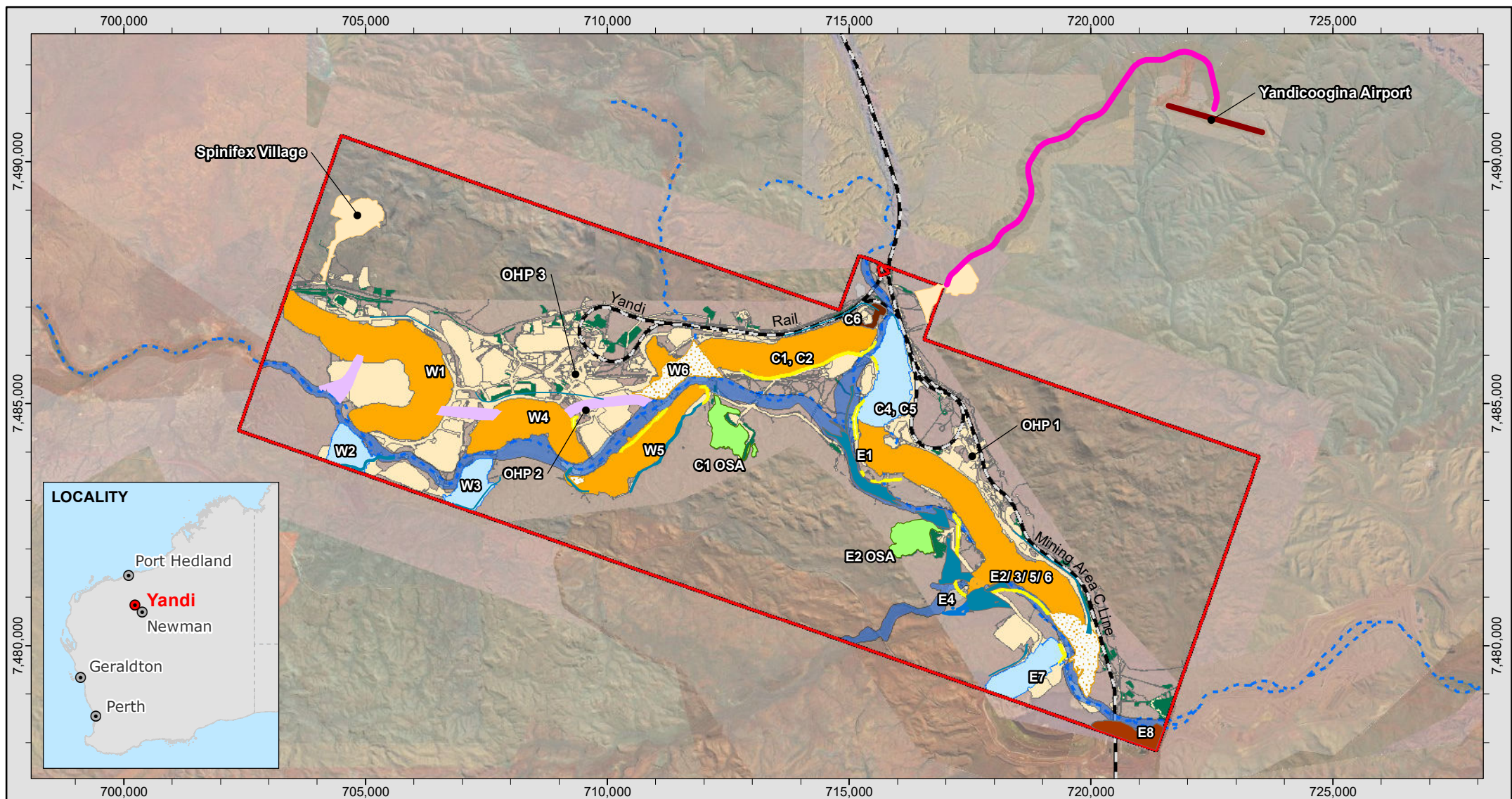
Coordinate System: GDA 1994 MGA Zone 50 Projection: Transverse Mercator, Datum: GDA 1994, Units: Meter

Date: 2/04/2025	Project No: A1238	Figure: 030/RevB
Prepared: C.Devlin	Checked: D.Pershke	

LEGEND

- Safety bunds
- BHP rail
- Marillana Creek
- Infrastructure jointly owned with RTIO
- Development envelope

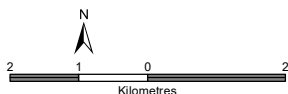
- Diversion channel
- Flood protection bund
- Flood channel
- Flood plain
- Ex-Pit



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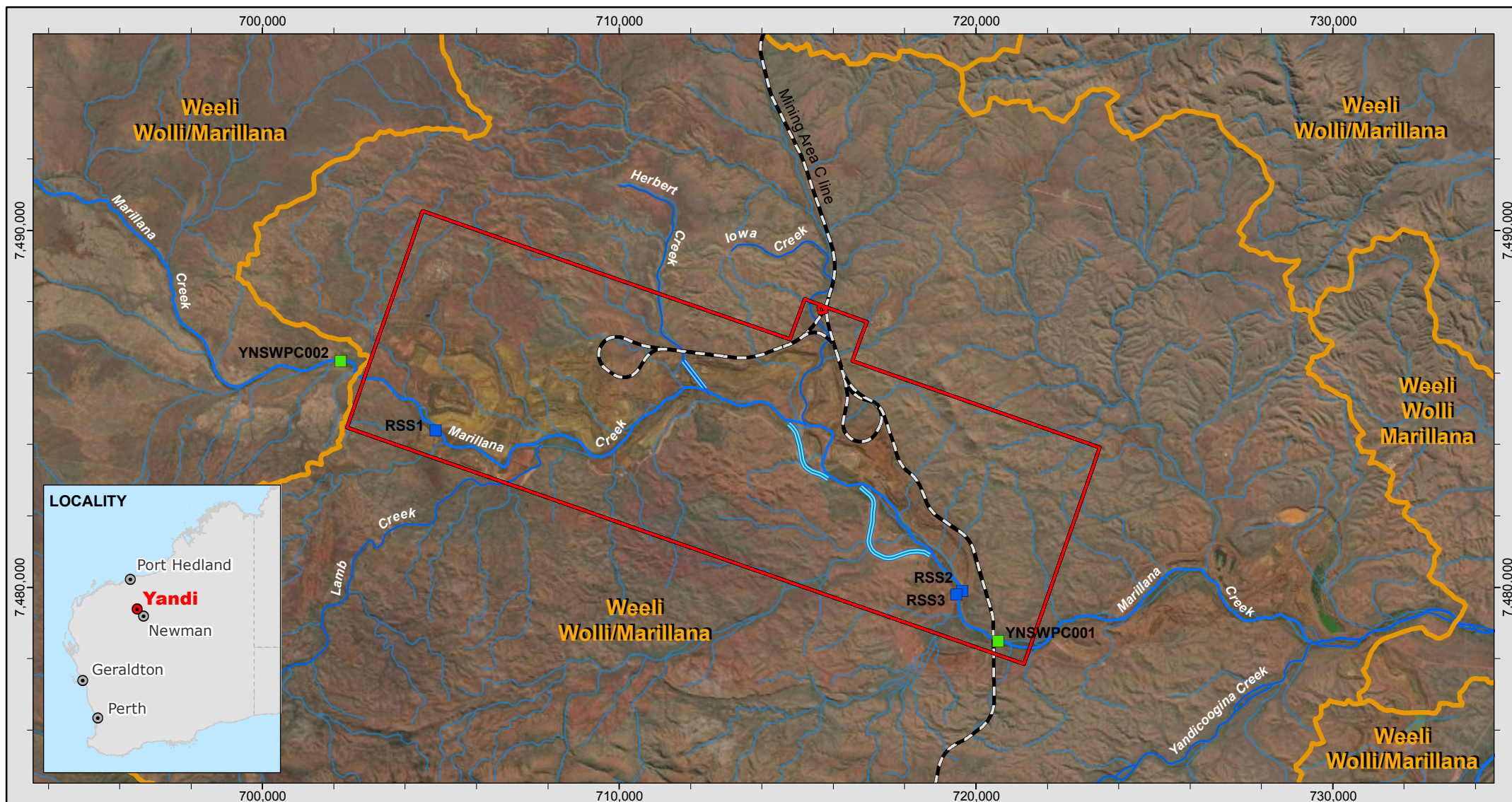
YANDI CLOSURE PLAN Revegetation Domains



Coordinate System: GDA 1994 MGA Zone 50 Projection: Transverse Mercator, Datum: GDA 1994, Units: Meter

Date: 4/05/2024	Project No: A1238	Figure: 034 RevA
Prepared: C.Devlin	Checked: D.Pershke	

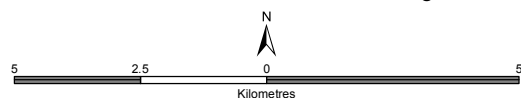
- | | |
|---|---|
| Airstrip | Backfilled with seasonal expressions of water |
| Infrastructure jointly owned with RTIO | Permanent pit lake |
| BHP rail | Flood protection bund |
| Watercourse | Flood plain |
| Marillana Creek 1 in 10 year flood extent | Ex-pit |
| Flood channel | Not Applicable |
| Diversion channel | Ex-pit OSAs (Already Rehabilitated) |
| Backfilled with no expressions of water | Current rehabilitation areas |
| | Development envelope |



BHP

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YANDI CLOSURE PLAN Marillana Creek Surface Water Monitoring Locations



Coordinate System: GDA 1994 MGA Zone 50 Projection: Transverse Mercator, Datum: GDA 1994, Units: Meter

Date: 13/05/2020	Project No: A809	Figure: 022/RevA
Prepared: M. English	Checked: D. Pershke	

LEGEND

- Rising Stage Samplers
- Spot Sampling
- BHP Rail
- Major Drainage
- E1, E4 and Herbert's Creek Diversions
- Development Envelope