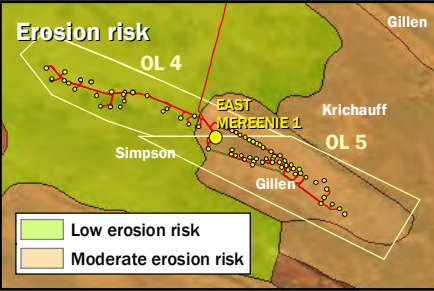
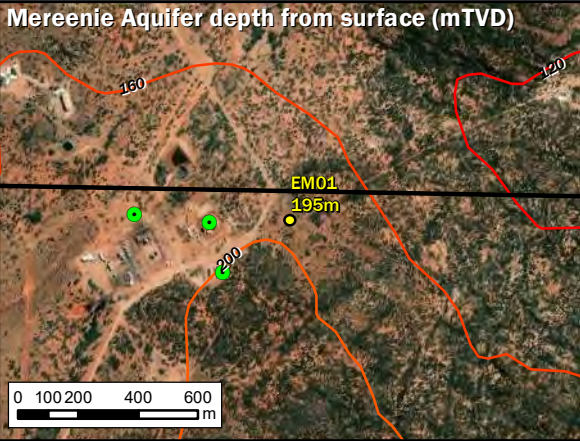


Appendix 4. Environmental Sensitivity Maps



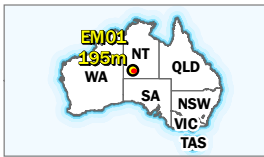
EAST MEREENIE 1

- Well
- Water bore
- Conservation Significant Flora
- (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
- (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
 - brilliant hopbush
 - false caustic bush
- TPWCA Near Threatened Flora Populations
 - brilliant hopbush
 - false caustic bush
- Flare Pit
- Sump

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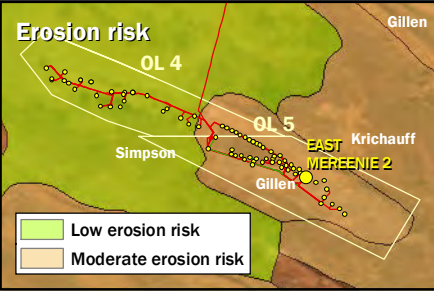
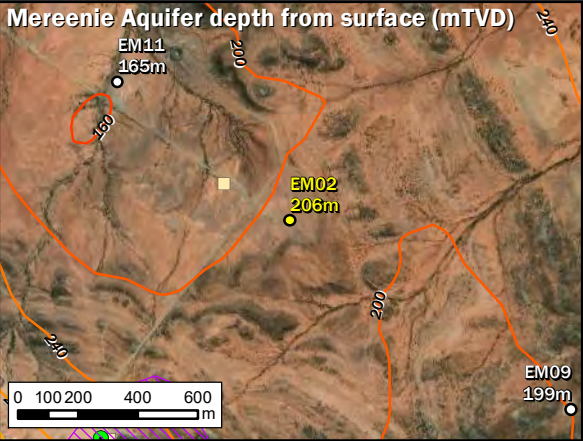
Map Scale is 1:1,500 when printed at A4
Coordinate System: GCS WGS 1984

Streams modified to match imagery and DEM by Central Petroleum after NT Drainage Lines: Australian Hydrological Geospatial Fabric (Geofabric) V2 1:1 Modified by: DENR. Significant Flora (TPWCA Status) - Department of Environment and Natural Resources, Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment. Significant Fauna (TPWCA Status), Land Systems from Department of Environment and Natural Resources - Copyright Northern Territory Government. Environmental Weeds from "Low Ecological Services Pty Ltd, 2019 - Central Petroleum Mereenie Weed Management Plan" and Department of Environment and Natural Resources. TPWCA Near Threatened Flora Populations - Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment.



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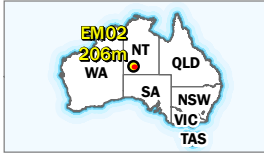
EAST MEREEENIE 2

- Well
- Conservation Significant Flora
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
- brilliant hopbush
 - false caustic bush
- Flare Pit

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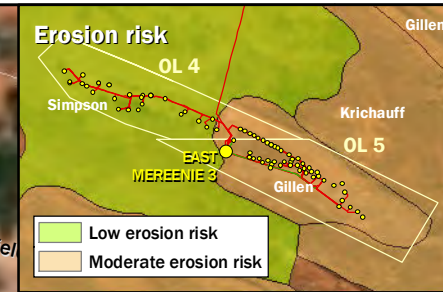
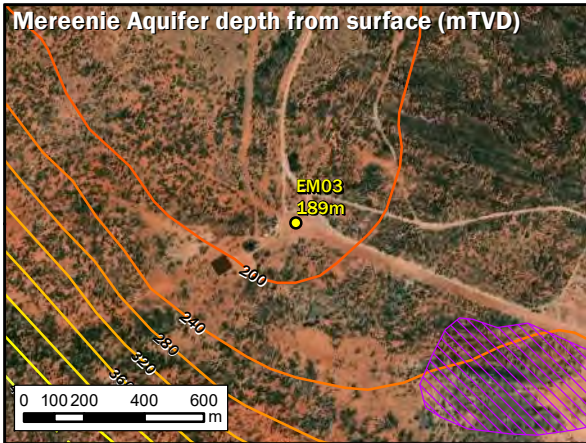
Map Scale is 1:1,500 when printed at A4
Coordinate System: GCS WGS 1984

Streams modified to match imagery and DEM by Central Petroleum after NT Drainage Lines: Australian Hydrological Geospatial Fabric (Geofabric) V2 1:1 Modified by: DENR. Significant Flora (TPWCA Status) - Department of Environment and Natural Resources, Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment. Significant Fauna (TPWCA Status), Land Systems from Department of Environment and Natural Resources - Copyright Northern Territory Government. Environmental Weeds from "Low Ecological Services Pty Ltd, 2019 - Central Petroleum Mereenie Weed Management Plan" and Department of Environment and Natural Resources. TPWCA Near Threatened Flora Populations - Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment.



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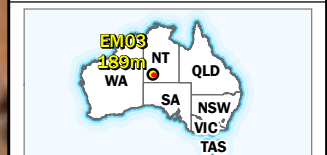
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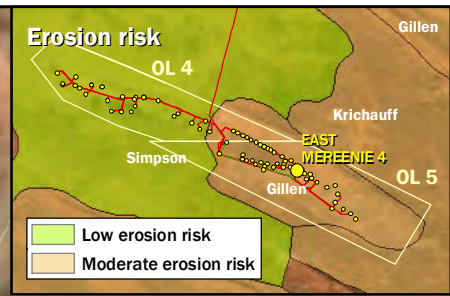
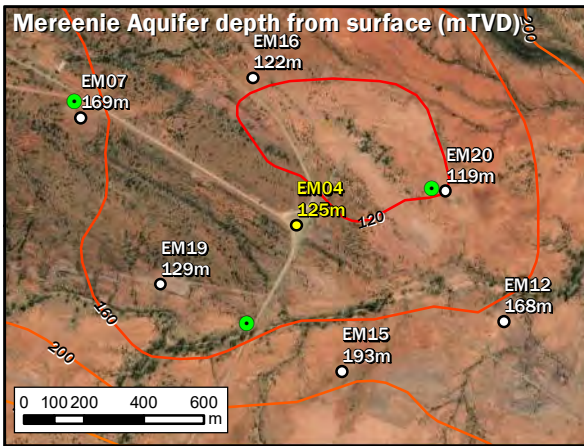
- Well
 - Water bore
- Conservation Significant Flora
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
- brilliant hopbush
 - false caustic bush

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Coordinate System: GCS WGS 1984

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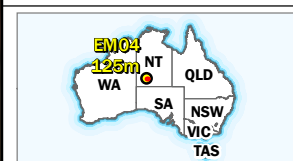
EAST MEREENIE 4

- Well
- Conservation Significant Flora (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- brilliant hopbush
 - false caustic bush
- TPWCA Near Threatened Flora Populations
- Flare Pit

ID: 0534-010
Rev:
Date: 6/12/2022

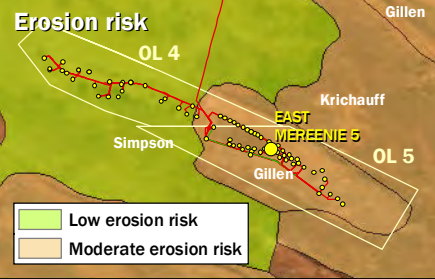
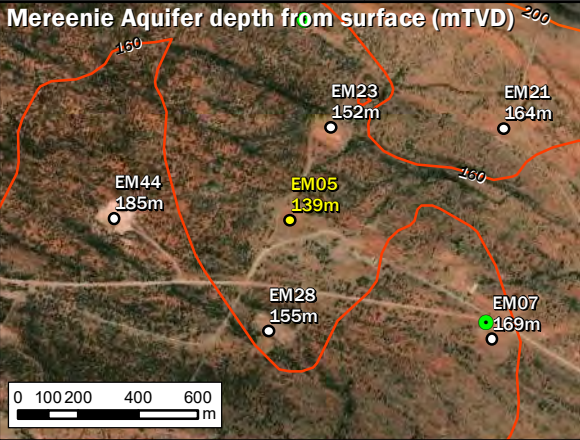
Map Scale is 1:1,500 when printed at A4
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EAST MEREENIE 5

Well

Conservation Significant Flora

(TPWCA Status)

- Critically Endangered
- Data Deficient
- Endangered
- Near Threatened
- Vulnerable

Conservation Significant Fauna

(TPWCA Status)

- Critically Endangered
- Data Deficient
- Endangered
- Near Threatened
- Vulnerable

Environmental Weeds

- brilliant hopbush
- false caustic bush

TPWCA Near Threatened Flora Populations

- Flare Pit

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Date: 6/12/2022

Map Scale is 1:1,500 when printed at A4

Coordinate System: GCS WGS 1984

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EM05 139m

NT

QLD

WA

SA

NSW

VIC

TAS

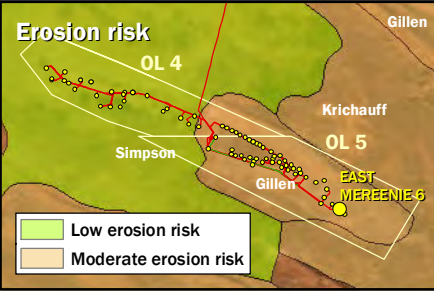
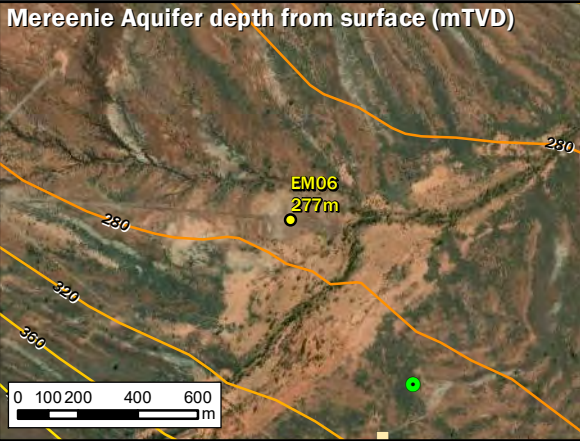
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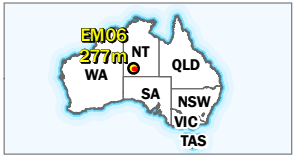
EAST MEREENIE 6

- Well
- Conservation Significant Flora
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
- brilliant hopbush
 - false caustic bush
- Flare Pit

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Map Scale is 1:1,500 when printed at A4
Coordinate System: GCS WGS 1984

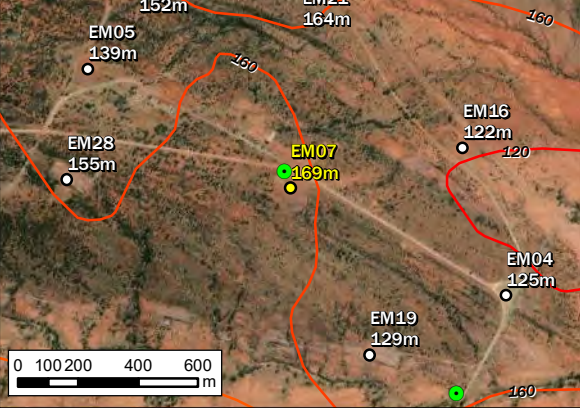
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Significant Flora (TPWCA Status) - Department of Environment and Natural Resources, Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment.
Significant Fauna (TPWCA Status), Land Systems from Department of Environment and Natural Resources - Copyright Northern Territory Government.
Environmental Weeds from "Low Ecological Services Pty Ltd, 2019 - Central Petroleum Mereenie Weed Management Plan" and Department of Environment and Natural Resources.
TPWCA Near Threatened Flora Populations - Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment.



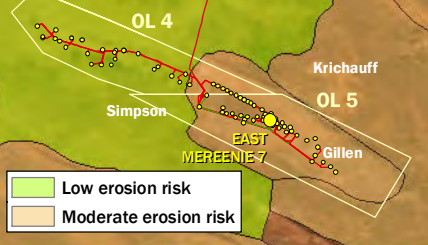
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Mereenie Aquifer depth from surface (mTVD)



Erosion risk



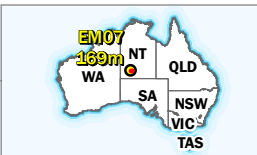
EAST MEREENIE 7

- Well
- Conservation Significant Flora (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
 - brilliant hopbush
 - false caustic bush
- Flare Pit

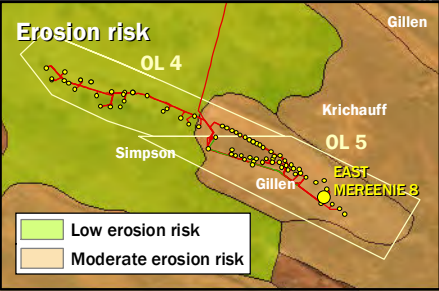
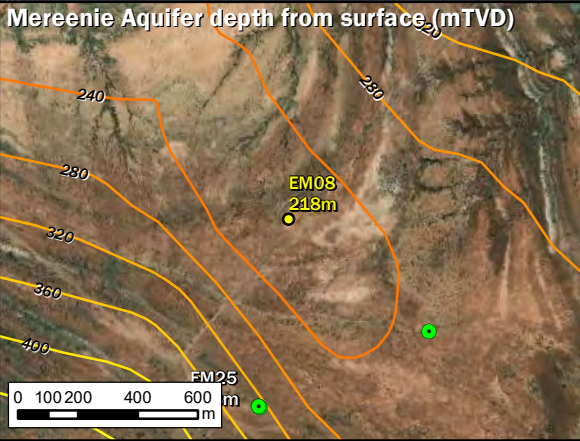
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Date: 6/12/2022

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Streams modified to match imagery and DEM by Central Petroleum after NT Drainage Lines: Australian Hydrological Geospatial Fabric (Geofabric) V2.1.1 Modified by: DENR. Significant Flora (TPWCA Status) - Department of Environment and Natural Resources, Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment. Significant Fauna (TPWCA Status), Land Systems from Department of Environment and Natural Resources - Copyright Northern Territory Government. Environmental Weeds from "Low Ecological Services Pty Ltd, 2019 - Central Petroleum Mereenie Weed Management Plan" and Department of Environment and Natural Resources. TPWCA Near Threatened Flora Populations - Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment.



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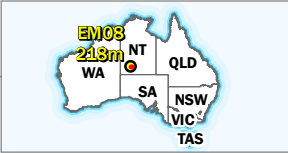
EAST MEREEENIE 8

- Well
- Conservation Significant Flora
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
- brilliant hobbush
 - false caustic bush

ID: 0534-010
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Date: 6/12/2022

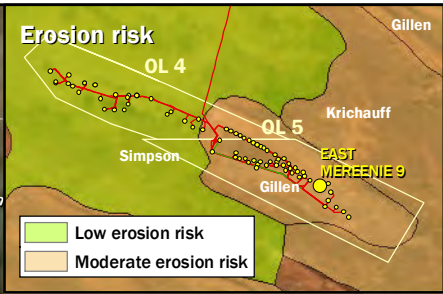
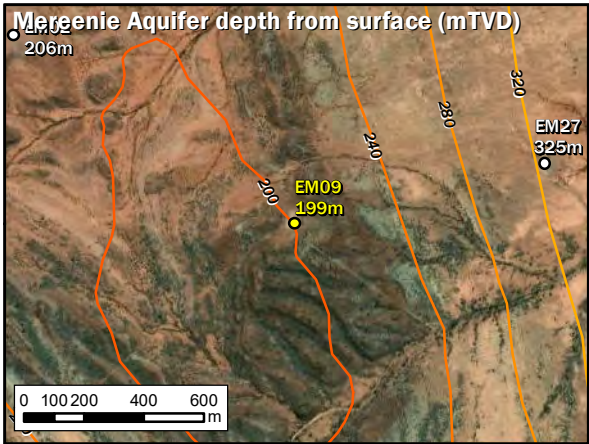
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Coordinate System: GCS WGS 1984

Streams modified to match imagery and DEM by Central Petroleum after NT Drainage Lines: Australian Hydrological Geospatial Fabric (Geofabric) V2 1:1 Modified by: DENR. Significant Flora (TPWCA Status) - Department of Environment and Natural Resources, Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment. Significant Fauna (TPWCA Status), Land Systems from Department of Environment and Natural Resources - Copyright Northern Territory Government. Environmental Weeds from "Low Ecological Services Pty Ltd, 2019 - Central Petroleum Mereenie Weed Management Plan" and Department of Environment and Natural Resources. TPWCA Near Threatened Flora Populations - Parks and Wildlife Commission of the Northern Territory, 2000. Central Petroleum Flora and Fauna Assessment.



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EAST MEREENIE 9

Well

Conservation Significant Flora

(TPWCA Status)

- Critically Endangered
- Data Deficient
- Endangered
- Near Threatened
- Vulnerable

Conservation Significant Fauna

(TPWCA Status)

- Critically Endangered
- Data Deficient
- Endangered
- Near Threatened
- Vulnerable

Environmental Weeds

- brilliant hopbush
- false caustic bush

Flare Pit

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Date: 6/12/2022

Map Scale is 1:1,500 when printed at A4

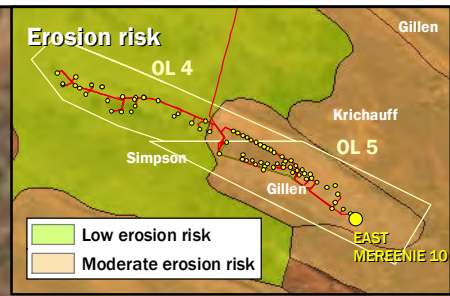
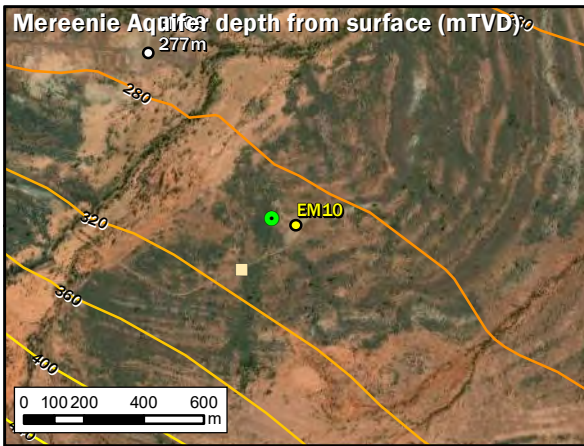
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Streams modified to match imagery and DEM by Central Petroleum after NT Drainage Lines: Australian Hydrological Geospatial Fabric (Geofabric) V2 1:1 Modified by: DENR. Significant Flora (TPWCA Status) - Department of Environment and Natural Resources, Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment. Significant Fauna (TPWCA Status), Land Systems from Department of Environment and Natural Resources - Copyright Northern Territory Government. Environmental Weeds from "Low Ecological Services Pty Ltd, 2019 - Central Petroleum Mereenie Weed Management Plan" and Department of Environment and Natural Resources. TPWCA Near Threatened Flora Populations - Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment.

NT, QLD, WA, SA, NSW, VIC, TAS

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EAST MERREENIE 10

- Well
- Conservation Significant Flora
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
- brilliant hopbush
 - false caustic bush
- Borrow pit

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Rev:

Date: 6/12/2022

Map Scale is 1:1,500 when printed at A4

Coordinate System: GCS WGS 1984

Streams modified to match imagery and DEM by Central Petroleum after NT Drainage Lines: Australian Hydrological Geospatial Fabric (Geofabric) V2 1:1 Modified by: DENR. Significant Flora (TPWCA Status) - Department of Environment and Natural Resources, Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment. Significant Fauna (TPWCA Status), Land Systems from Department of Environment and Natural Resources - Copyright Northern Territory Government. Environmental Weeds from "Low Ecological Services Pty Ltd, 2019 - Central Petroleum Mereenie Weed Management Plan" and Department of Environment and Natural Resources. TPWCA Near Threatened Flora Populations - Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment.

NT

QLD

WA

SA

NSW

VIC

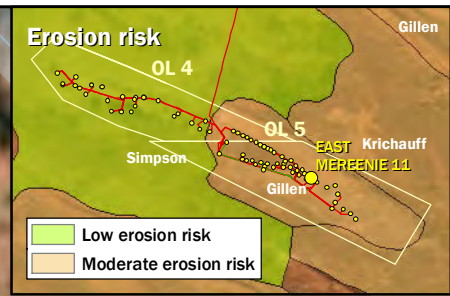
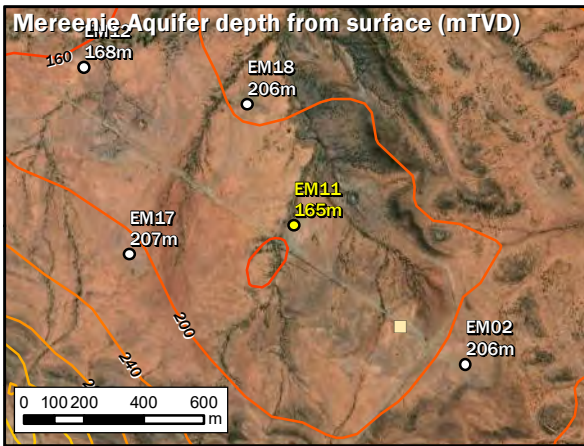
TAS

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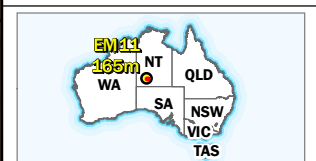
EAST MEREENIE 11

- Well
- Conservation Significant Flora (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
 - brilliant hobbush
 - false caustic bush
- TPWCA Near Threatened Flora Populations
 - Streams (modified CTP after NT Drainage Lines)
 - 5m riparian zone

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Rev:
Date: 6/12/2022

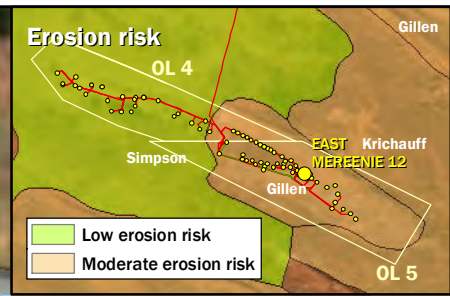
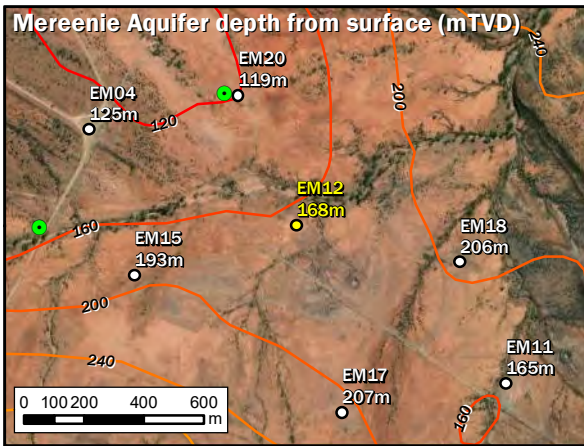
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Streams modified to match imagery and DEM by Central Petroleum after NT Drainage Lines: Australian Hydrological Geospatial Fabric (Geofabric) V2 1:1 Modified by: DENR. Significant Flora (TPWCA Status) - Department of Environment and Natural Resources, Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment. Significant Fauna (TPWCA Status), Land Systems from Department of Environment and Natural Resources - Copyright Northern Territory Government. Environmental Weeds from "Low Ecological Services Pty Ltd, 2019 - Central Petroleum Mereenie Weed Management Plan" and Department of Environment and Natural Resources. TPWCA Near Threatened Flora Populations - Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment.



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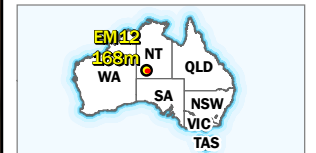
EAST MEREENIE 12

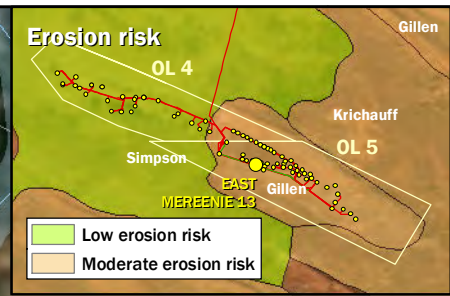
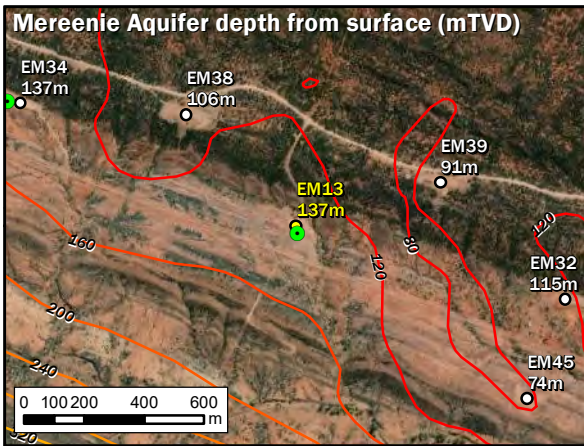
- Well
- Conservation Significant Flora
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
 - brilliant hopbush
 - false caustic bush
- Streams (modified CTP after NT Drainage Lines)
- 5m riparian zone
- Flare Pit

ID: 0534-010
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Date: 6/12/2022

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Coordinate System: GCS WGS 1984

Streams modified to match imagery and DEM by Central Petroleum after NT Drainage Lines: Australian Hydrological Geospatial Fabric (Geofabric) V2.1.1 Modified by: DENR. Significant Flora (TPWCA Status) - Department of Environment and Natural Resources, Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment. Significant Fauna (TPWCA Status), Land Systems from Department of Environment and Natural Resources - Copyright Northern Territory Government. Environmental Weeds from "Low Ecological Services Pty Ltd, 2019 - Central Petroleum Mereenie Weed Management Plan" and Department of Environment and Natural Resources. TPWCA Near Threatened Flora Populations - Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment.





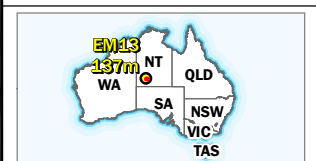
EAST MEREEENIE 13

- Well
- Conservation Significant Flora
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
 - brilliant hopbush
 - false caustic bush
- TPWCA Near Threatened Flora Populations
 - Streams (modified CTP after NT Drainage Lines)
 - 5m riparian zone
- Borrow pit
- Flare Pit

ID: 0534-010
Rev:
Date: 6/12/2022

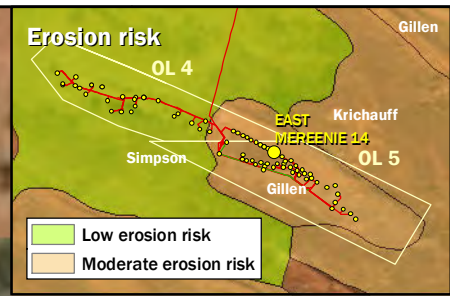
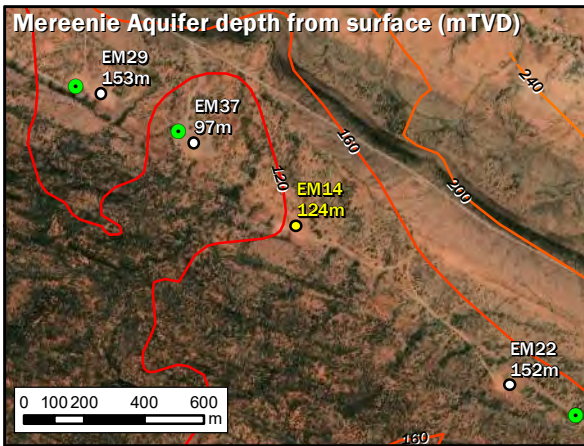
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Coordinate System: GCS WGS 1984

Streams modified to match imagery and DEM by Central Petroleum after NT Drainage Lines: Australian Hydrological Geospatial Fabric (Geofabric) V2 1:1 Modified by: DENR. Significant Flora (TPWCA Status) - Department of Environment and Natural Resources, Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment. Significant Fauna (TPWCA Status), Land Systems from Department of Environment and Natural Resources - Copyright Northern Territory Government. Environmental Weeds from "Low Ecological Services Pty Ltd, 2019 - Central Petroleum Mereenie Weed Management Plan" and Department of Environment and Natural Resources. TPWCA Near Threatened Flora Populations - Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment.



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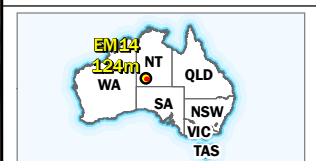
EAST MEREENIE 14

- Well
- Conservation Significant Flora
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
 - brilliant hopbush
 - false caustic bush
- Streams (modified CTP after NT Drainage Lines)
- 5m riparian zone
- Flare Pit

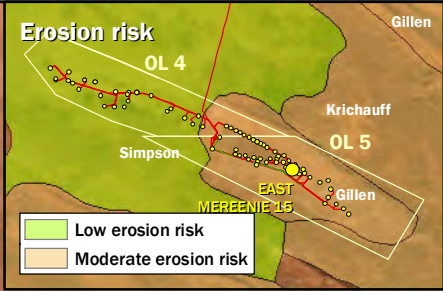
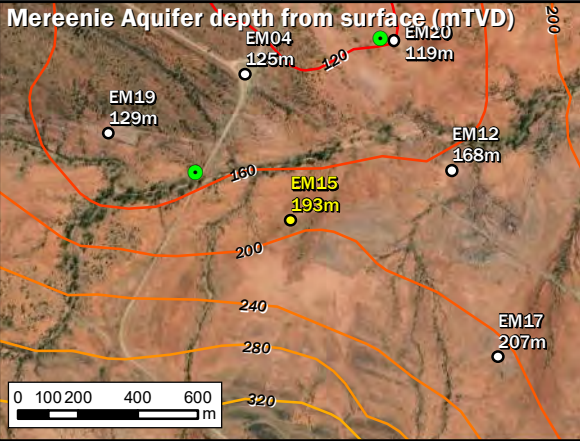
ID: 0534-010
Rev:
Date: 6/12/2022

Map Scale is 1:1,500 when printed at A4
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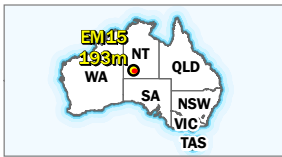
EAST MERENEIE 15

- Well
- Conservation Significant Flora
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
 - brilliant hopbush
 - false caustic bush
- Streams (modified CTP after NT Drainage Lines)
- Flare Pit
- Sump

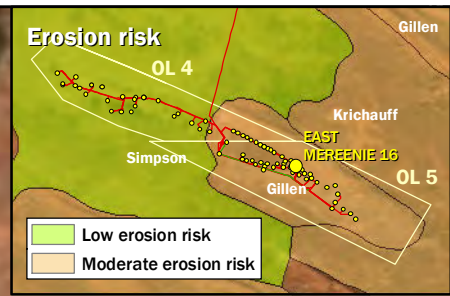
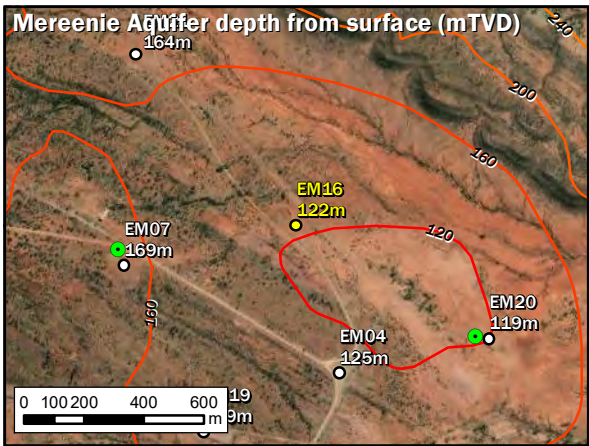
ID: 0534-010
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Date: 6/12/2022

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EAST MEREENIE 16

- Well
- Conservation Significant Flora (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
 - brilliant hopbush
 - false caustic bush
- TPWCA Near Threatened Flora Populations
 - Flare Pit
 - Sump

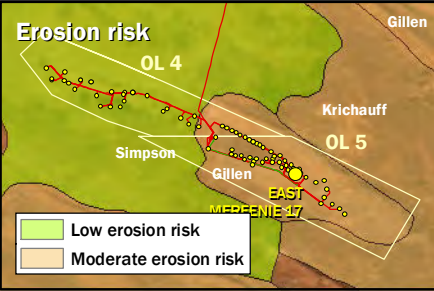
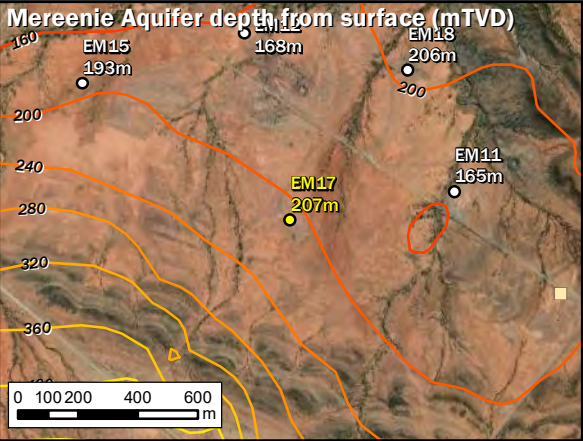
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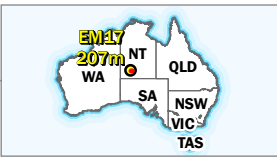
EAST MEREENIE 17

- Well
- Conservation Significant Flora
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
 - brilliant hopbush
 - false caustic bush
 - 5m riparian zone
- Flare Pit

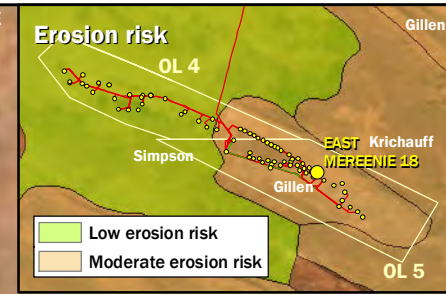
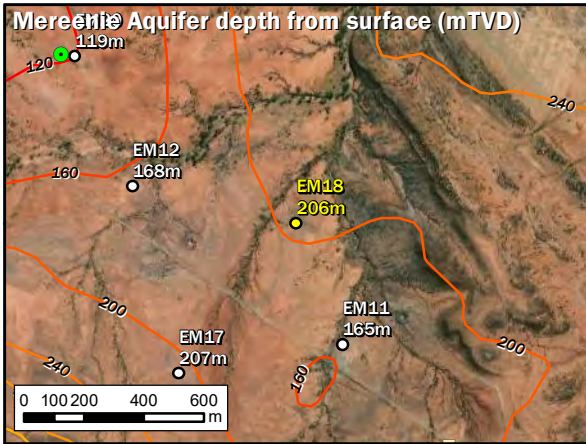
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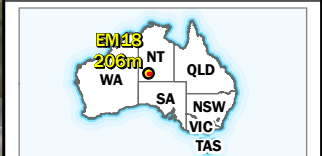
EAST MEREENIE 18

- Well
- Conservation Significant Flora
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
 - brilliant hopbush
 - false caustic bush
- Streams (modified CTP after NT Drainage Lines)
- 5m riparian zone
- Sump

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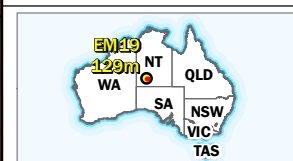
EAST MERREENIE 19

- Well
- Conservation Significant Flora
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
 - TPWCA Near Threatened Flora Populations
 - brilliant hopbush
 - false caustic bush
 - Streams (modified CTP after NT Drainage Lines)
 - 5m riparian zone
 - Flare
 - Flare Pit
 - Sump

ID: 0534-010
Rev:
Date: 6/12/2022

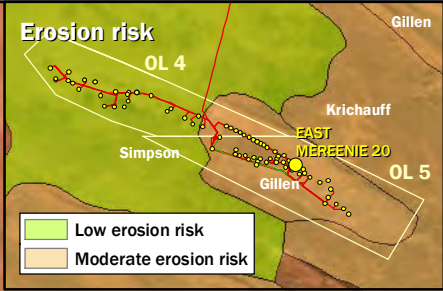
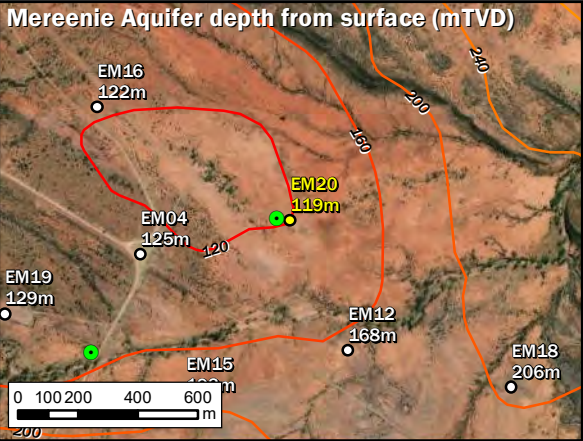
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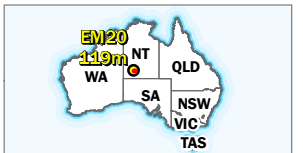
EAST MEREEENIE 20

- Well
- Conservation Significant Flora (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
- brilliant hopbush
 - false caustic bush
- Flare Pit

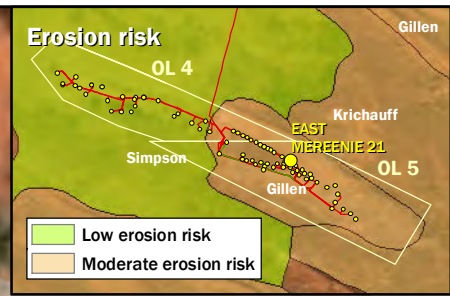
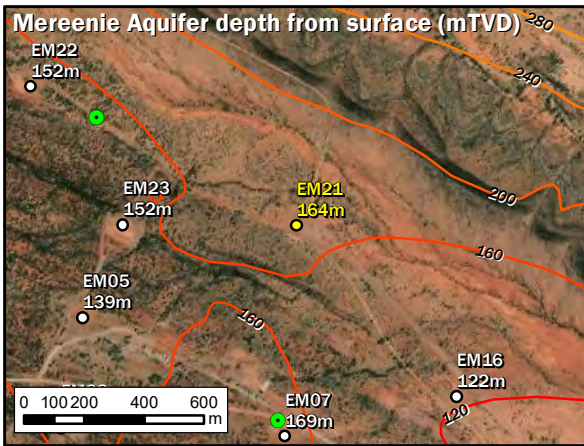
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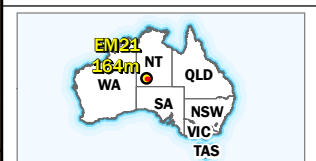
EAST MEREENIE 21

- Well
- Conservation Significant Flora
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
 - brilliant hopbush
 - false caustic bush
- Streams (modified CTP after NT Drainage Lines)
- 5m riparian zone
- Flare Pit

ID: 0534-010
Rev:
Date: 6/12/2022

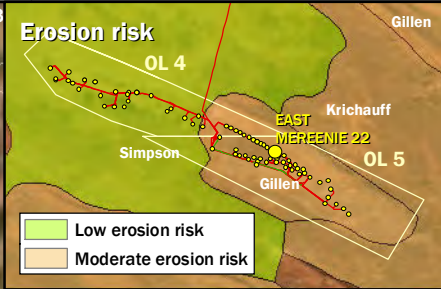
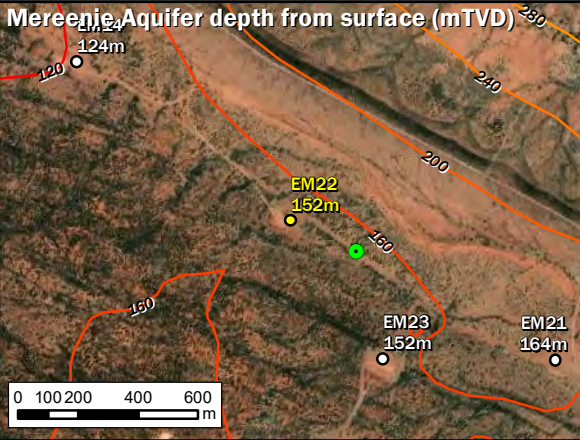
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EAST MEREENIE 22

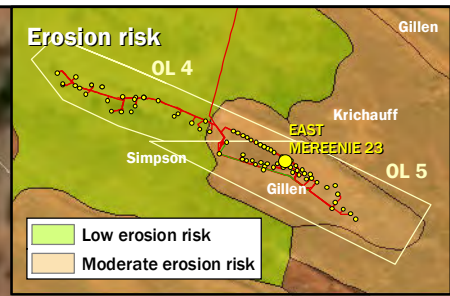
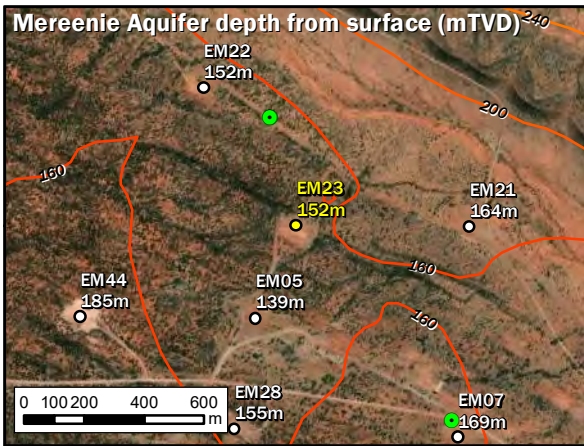
- Well
- Conservation Significant Flora (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
- brilliant hopbush
 - false caustic bush
- Flare Pit

ID: 0534-010
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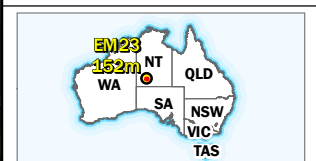
EAST MEREEENIE 23

- Well
- Conservation Significant Flora
- (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
- (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
 - brilliant hopbush
 - false caustic bush
- Streams (modified CTP after NT Drainage Lines)
- 5m riparian zone
- Flare Pit

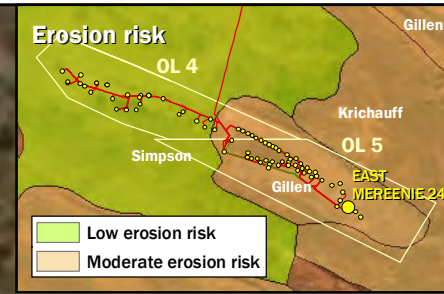
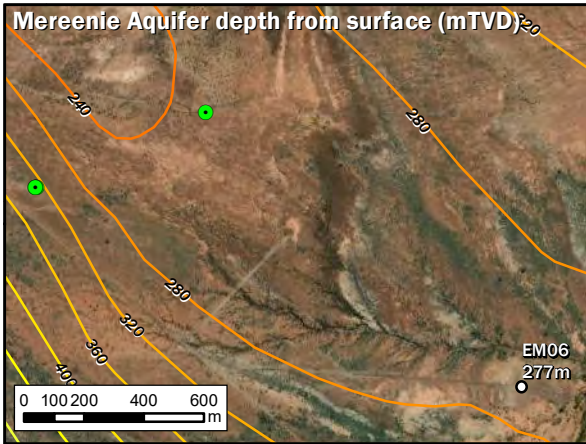
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EAST MEREENIE 24

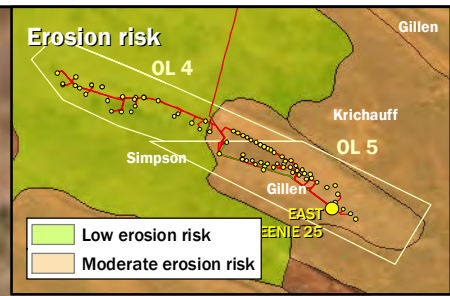
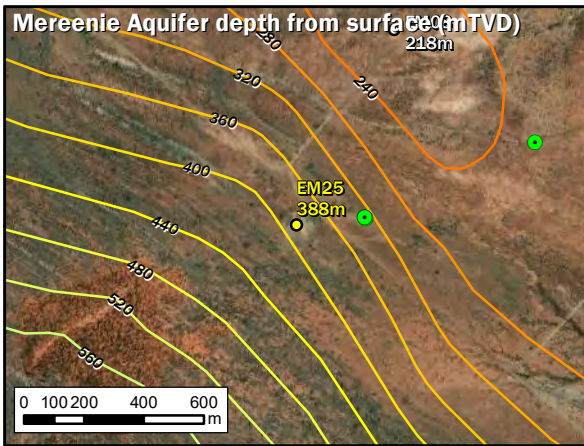
- Well
- Conservation Significant Flora
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
- brilliant hopbush
 - false caustic bush
- Flare Pit
- Sump

ID: 0534-010
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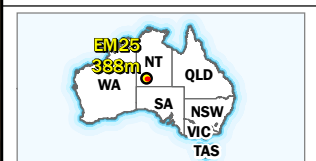
EAST MEREENIE 25

- Well
- Conservation Significant Flora
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
- brilliant hopbush
 - false caustic bush
- Flare Pit

ID: 0534-010
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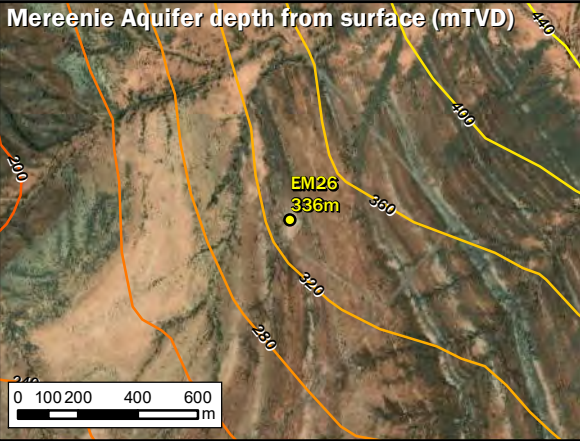
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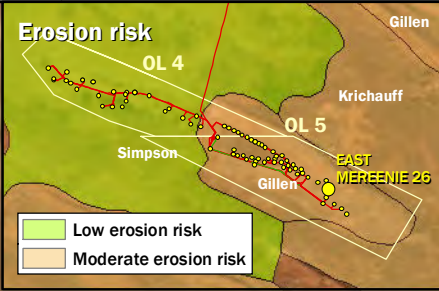


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131°40'15"E



EAST MEREENIE 26

Well

Conservation Significant
Flora

(TPWCA Status)

- Critically Endangered
- Data Deficient
- Endangered
- Near Threatened
- Vulnerable

Conservation Significant
Fauna

(TPWCA Status)

- Critically Endangered
- Data Deficient
- Endangered
- Near Threatened
- Vulnerable

Environmental Weeds

TPWCA Near Threatened
Flora Populations

- brilliant hopbush
- false caustic bush

Flare Pit

Sump

ID: 0534-010

Rev:

Date: 6/12/2022

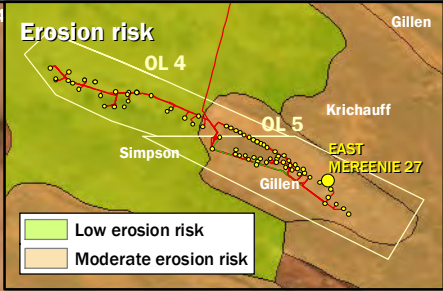
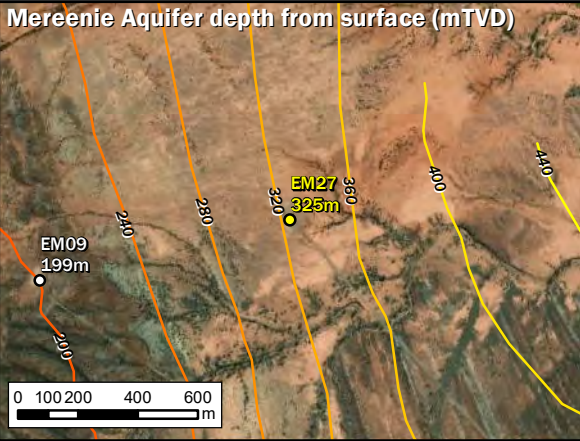
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Streams modified to match imagery and DEM by Central Petroleum after NT Drainage Lines: Australian Hydrological Geospatial Fabric (Geofabric) V2 1:1 Modified by: DENR. Significant Flora (TPWCA Status) - Department of Environment and Natural Resources, Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment. Significant Fauna (TPWCA Status), Land Systems from Department of Environment and Natural Resources - Copyright Northern Territory Government. Environmental Weeds from "Low Ecological Services Pty Ltd, 2019 - Central Petroleum Mereenie Weed Management Plan" and Department of Environment and Natural Resources. TPWCA Near Threatened Flora Populations - Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment.



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EAST MEREEENIE 27

- Well
- Conservation Significant Flora
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
- brilliant hopbush
 - false caustic bush
- Flare Pit
- Sump

ID: 0534-010

Rev:

Date: 6/12/2022

Map Scale is 1:1,500 when printed at A4

Coordinate System: GCS WGS 1984

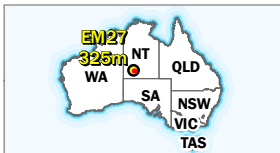
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Significant Flora (TPWCA Status) - Department of Environment and Natural Resources, Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment.

Significant Fauna (TPWCA Status), Land Systems from Department of Environment and Natural Resources - Copyright Northern Territory Government.

Environmental Weeds from "Low Ecological Services Pty Ltd, 2019 - Central Petroleum Mereenie Weed Management Plan" and Department of Environment and Natural Resources.

TPWCA Near Threatened Flora Populations - Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment.

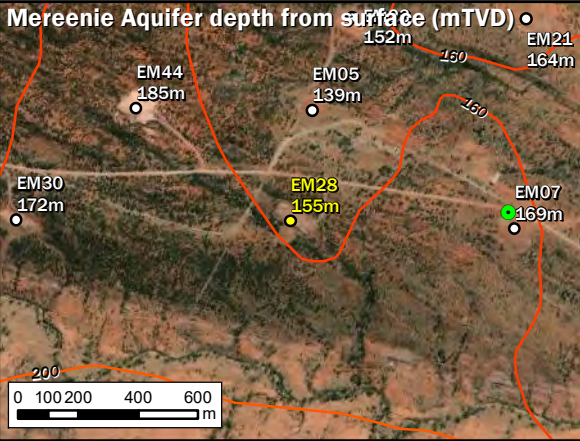


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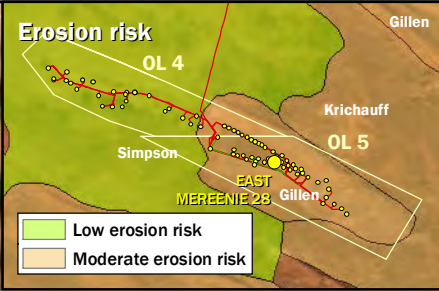
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131°37'0"E



EAST MEREEENIE 28

- Well**
- Conservation Significant Flora**
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna**
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds**
- TPWCA Near Threatened Flora Populations**
- brilliant hopbush
 - false caustic bush
- Streams (modified CTP after NT Drainage Lines)**
- 5m riparian zone**
- Flare Pit**

ID: 0534-010
Rev:
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Map Scale is 1:1,500 when printed at A4
Coordinate System: GCS WGS 1984

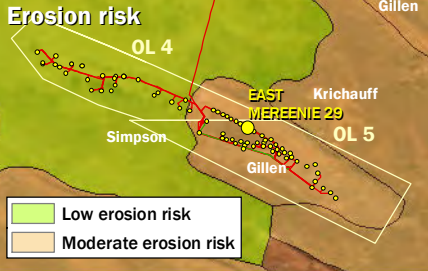
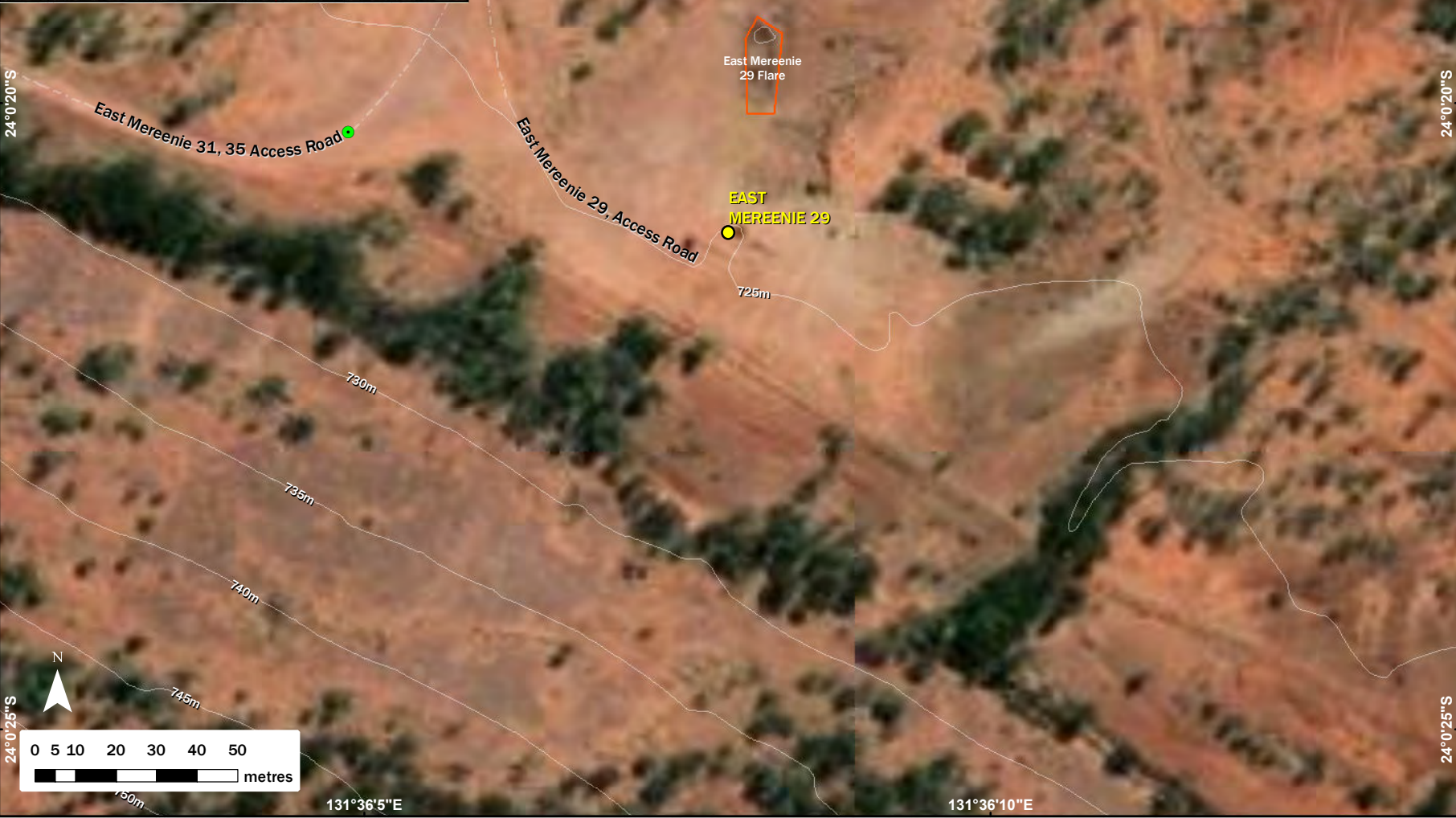
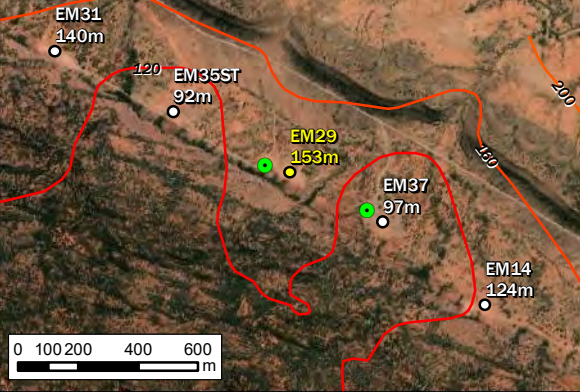
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131°37'0"E

131°37'5"E

Mereenie Aquifer depth from surface (mTVD)



EAST MEREEENIE 29

- Well
- Conservation Significant Flora (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
 - brilliant hopbush
 - false caustic bush
- Flare Pit

ID: 0534-010
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Date: 6/12/2022

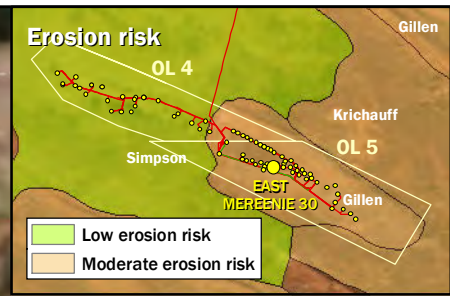
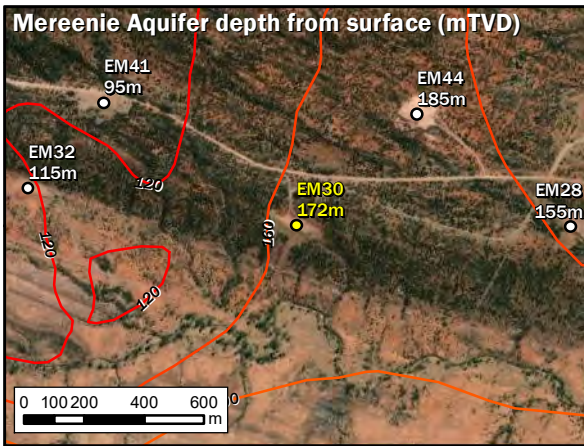
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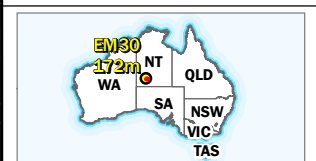
EAST MEREEENIE 30

- Well**
- Yellow circle
- Conservation Significant Flora**
- (TPWCA Status)
- Critically Endangered (Orange square)
 - Data Deficient (Grey square)
 - Endangered (Red square)
 - Near Threatened (Yellow square)
 - Vulnerable (Green square)
- Conservation Significant Fauna**
- (TPWCA Status)
- Critically Endangered (Orange diamond)
 - Data Deficient (Grey diamond)
 - Endangered (Red diamond)
 - Near Threatened (Yellow diamond)
 - Vulnerable (Green diamond)
- Environmental Weeds**
- Green circle
- TPWCA Near Threatened Flora Populations**
- brilliant hopbush (Purple circle)
 - false caustic bush (Pink circle)
- Flare Pit**
- Orange rectangle

ID: 0534-010
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Date: 6/12/2022

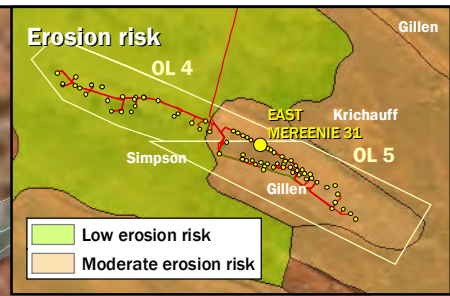
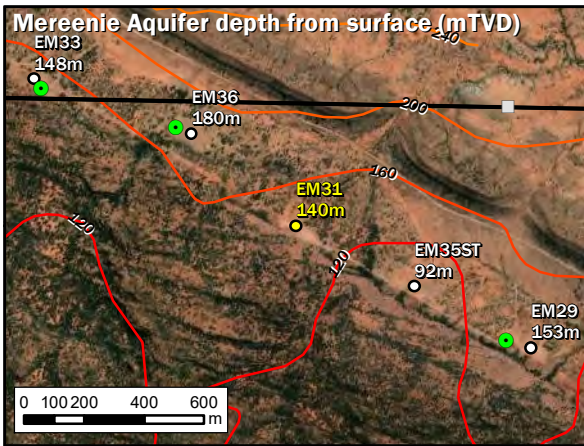
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Streams modified to match imagery and DEM by Central Petroleum after NT Drainage Lines: Australian Hydrological Geospatial Fabric (Geofabric) V2 1:1 Modified by: DENR. Significant Flora (TPWCA Status) - Department of Environment and Natural Resources, Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment. Significant Fauna (TPWCA Status), Land Systems from Department of Environment and Natural Resources - Copyright Northern Territory Government. Environmental Weeds from "Low Ecological Services Pty Ltd, 2019 - Central Petroleum Mereenie Weed Management Plan" and Department of Environment and Natural Resources. TPWCA Near Threatened Flora Populations - Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment.



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EAST MEREENIE 31

Well

Conservation Significant Flora

(TPWCA Status)

- Critically Endangered
- Data Deficient
- Endangered
- Near Threatened
- Vulnerable

Conservation Significant Fauna

(TPWCA Status)

- Critically Endangered
- Data Deficient
- Endangered
- Near Threatened
- Vulnerable

Environmental Weeds

- brilliant hopbush
- false caustic bush

TPWCA Near Threatened Flora Populations

- Streams (modified CTP after NT Drainage Lines)
- 5m riparian zone

Flare Pit

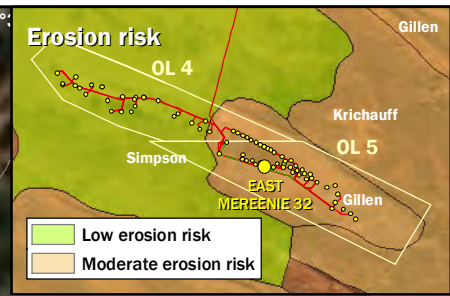
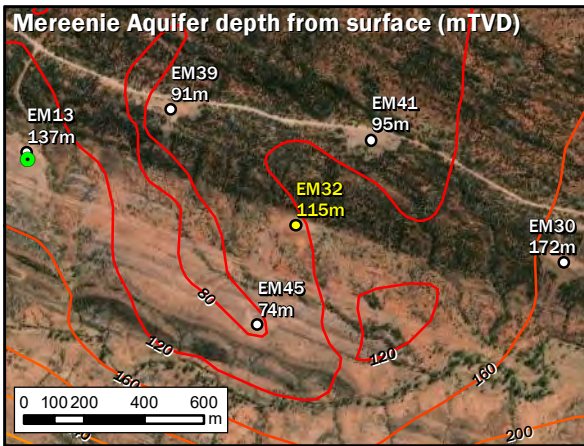
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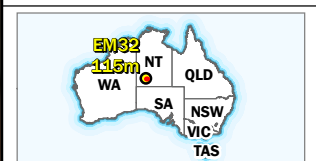
EAST MEREENIE 32

- Well
- Conservation Significant Flora (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
- brilliant hopbush
 - false caustic bush
- Flare Pit

ID: 0534-010
Rev:
Date: 6/12/2022

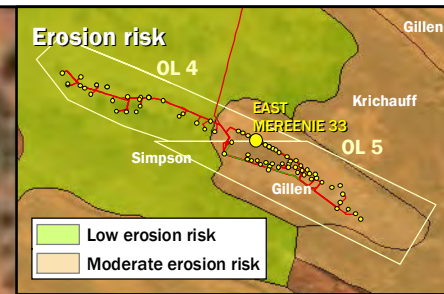
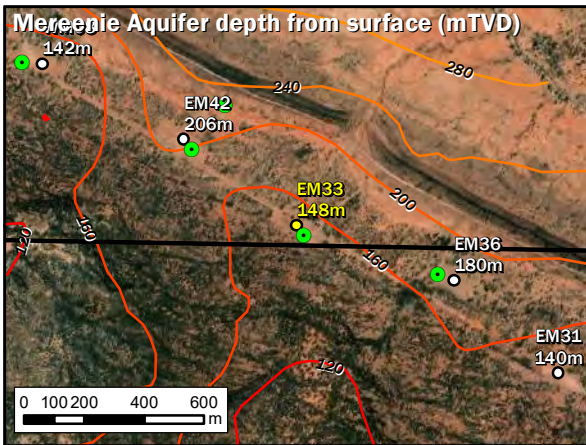
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EAST MEREENIE 33

Well

Conservation Significant Flora

(TPWCA Status)

Critically Endangered

Data Deficient

Endangered

Near Threatened

Vulnerable

Conservation Significant Fauna

(TPWCA Status)

Critically Endangered

Data Deficient

Endangered

Near Threatened

Vulnerable

Environmental Weeds

TPWCA Near Threatened Flora Populations

brilliant hopbush

false caustic bush

Flare Pit

ID: 0534-010

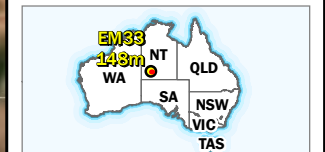
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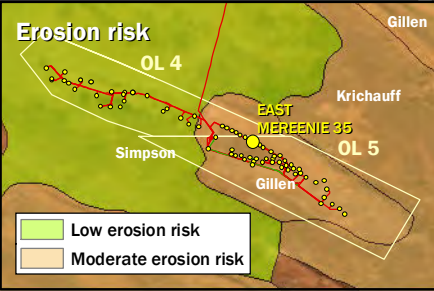
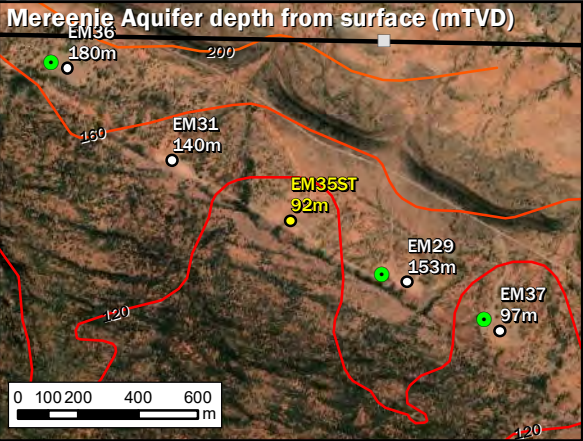
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EAST MEREEENIE 35

- Well**
- Conservation Significant Flora**
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna**
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds**
- TPWCA Near Threatened Flora Populations**
- brilliant hopbush
 - false caustic bush
 - Streams (modified CTP after NT Drainage Lines)
 - 5m riparian zone
 - Flare Pit

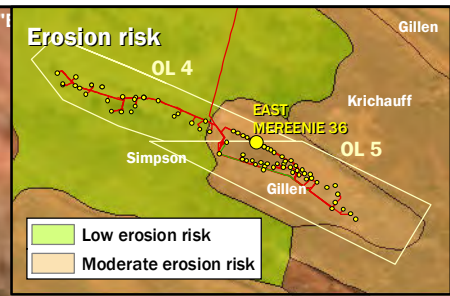
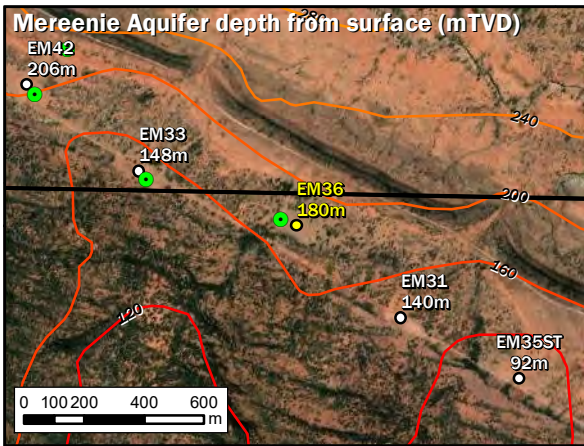
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EAST MEREENIE 36

Well

Conservation Significant Flora

(TPWCA Status)

- Critically Endangered
- Data Deficient
- Endangered
- Near Threatened
- Vulnerable

Conservation Significant Fauna

(TPWCA Status)

- Critically Endangered
- Data Deficient
- Endangered
- Near Threatened
- Vulnerable

Environmental Weeds

- brilliant hopbush
- false caustic bush

TPWCA Near Threatened Flora Populations

- Streams (modified CTP after NT Drainage Lines)
- 5m riparian zone

Flare Pit

ID: 0534-010
Rev:
Date: 6/12/2022

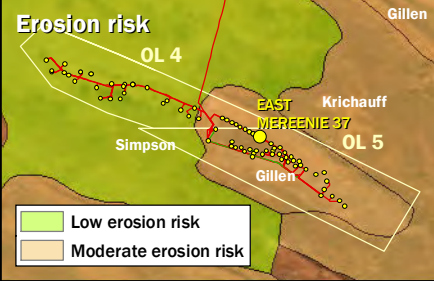
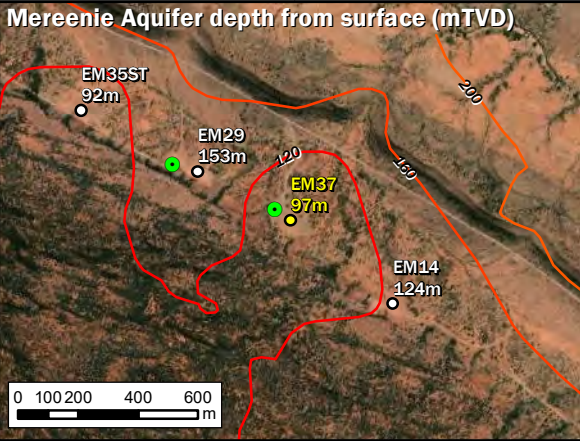
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EAST MEREEENIE 37

- Well
- Conservation Significant Flora (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
 - brilliant hopbush
 - false caustic bush
- TPWCA Near Threatened Flora Populations
 - Streams (modified CTP after NT Drainage Lines)
 - 5m riparian zone

ID: 0534-010
Rev:
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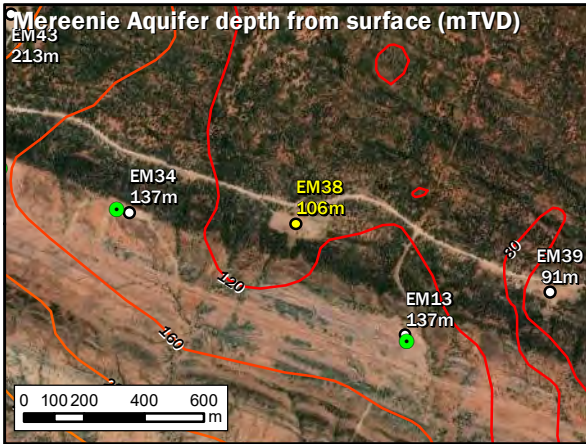
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EAST MEREENIE 38

Well

Conservation Significant Flora

(TPWCA Status)

- Critically Endangered
- Data Deficient
- Endangered
- Near Threatened
- Vulnerable

Conservation Significant Fauna

(TPWCA Status)

- Critically Endangered
- Data Deficient
- Endangered
- Near Threatened
- Vulnerable

Environmental Weeds

- brilliant hopbush
- false caustic bush

TPWCA Near Threatened Flora Populations

- Flare Pit
- Sump

ID: 0534-010
Rev:
Date: 6/12/2022

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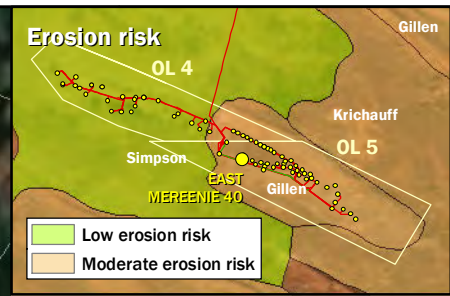
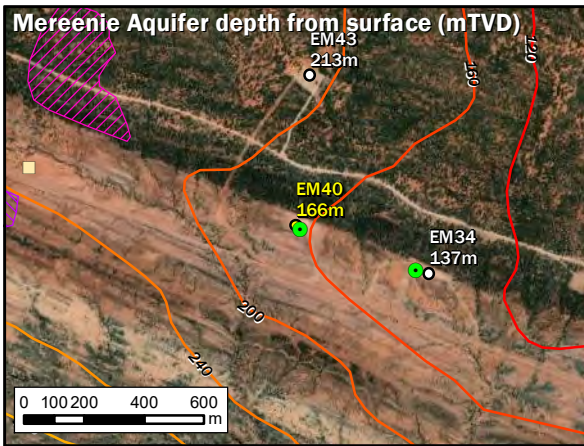
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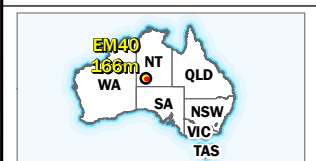
EAST MEREENIE 40

- Well
- Conservation Significant Flora
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
 - brilliant hopbush
 - false caustic bush
- Streams (modified CTP after NT Drainage Lines)
 - 5m riparian zone
- Borrow pit
- Flare Pit

ID: 0534-010
Rev:
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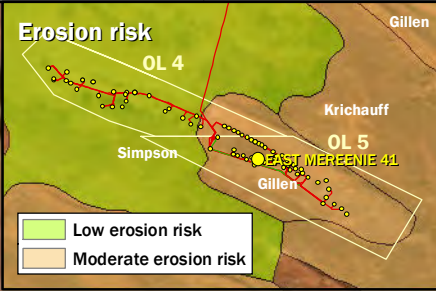
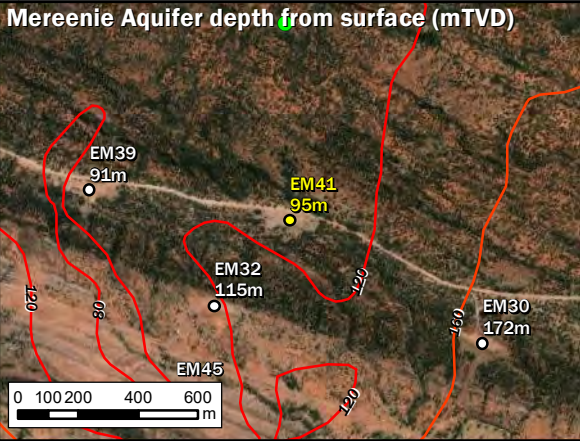
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EAST MEREENIE 41

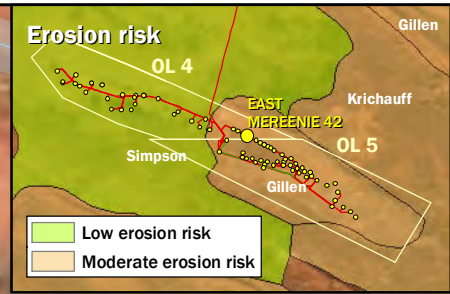
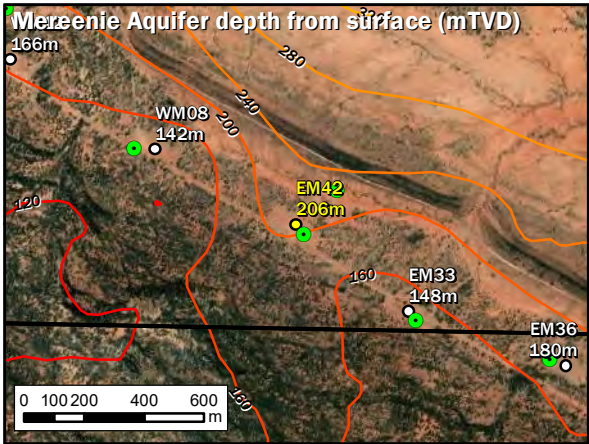
- Well
- Conservation Significant Flora
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
- brilliant hopbush
 - false caustic bush
- Flare Pit
- Sump

ID: 0534-010
Rev:
Date: 6/12/2022

Map Scale is 1:1,500 when printed at A4
Coordinate System: GCS WGS 1984

Streams modified to match imagery and DEM by Central Petroleum after NT Drainage Lines: Australian Hydrological Geospatial Fabric (Geofabric) V2.1.1 Modified by: DENR. Significant Flora (TPWCA Status) - Department of Environment and Natural Resources, Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment. Significant Fauna (TPWCA Status), Land Systems from Department of Environment and Natural Resources - Copyright Northern Territory Government. Environmental Weeds from "Low Ecological Services Pty Ltd, 2019 - Central Petroleum Mereenie Weed Management Plan" and Department of Environment and Natural Resources. TPWCA Near Threatened Flora Populations - Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment.





EAST MEREENIE 42

- Well
- Conservation Significant Flora
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
 - brilliant hopbush
 - false caustic bush
- TPWCA Near Threatened Flora Populations
 - Streams (modified CTP after NT Drainage Lines)
 - 5m riparian zone
- Flare Pit
- Sump

ID: 0534-010
Rev:
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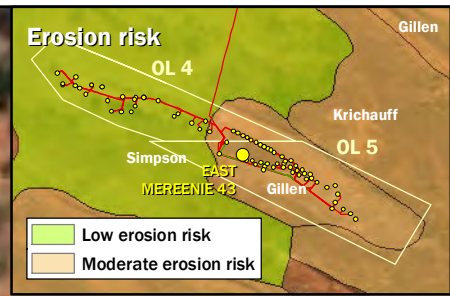
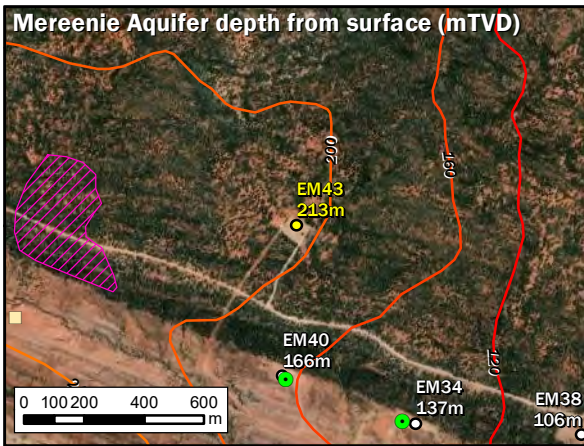
Map Scale is 1:1,500 when printed at A4
Coordinate System: GCS WGS 1984

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EAST MEREENIE 43

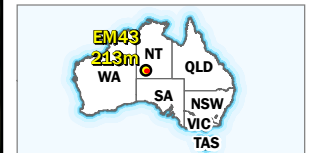
- Well
- Conservation Significant Flora
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
 - brilliant hopbush
 - false caustic bush
- TPWCA Near Threatened Flora Populations
 - Streams (modified CTP after NT Drainage Lines)
 - 5m riparian zone
- Flare Pit

ID: 0534-010
Rev:
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Map Scale is 1:1,500 when printed at A4
Coordinate System: GCS WGS 1984

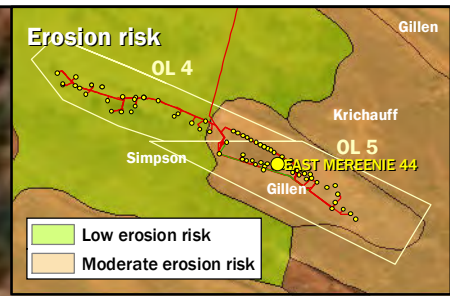
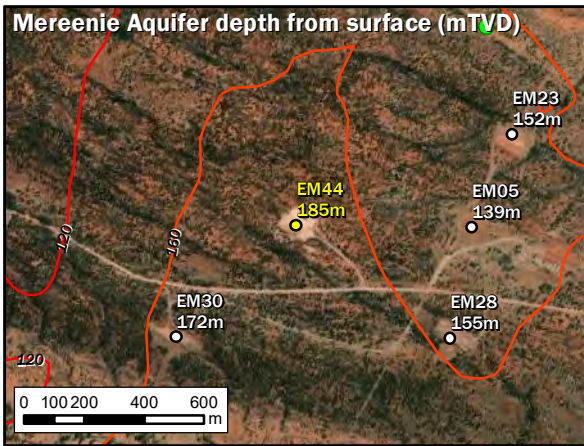
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TPWCA Near Threatened Flora Populations - Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment.



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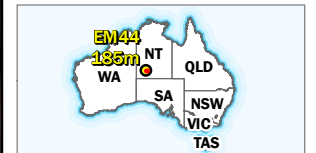
EAST MEREENIE 44

- Well
- Conservation Significant Flora
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
 - brilliant hopbush
 - false caustic bush
- TPWCA Near Threatened Flora Populations
 - Streams (modified CTP after NT Drainage Lines)
 - 5m riparian zone
- Flare Pit
- Sump

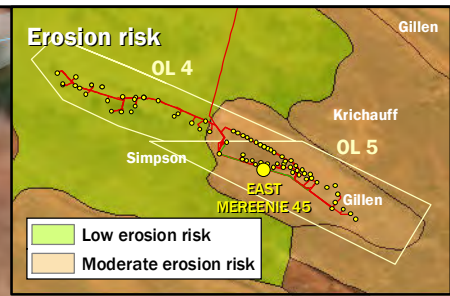
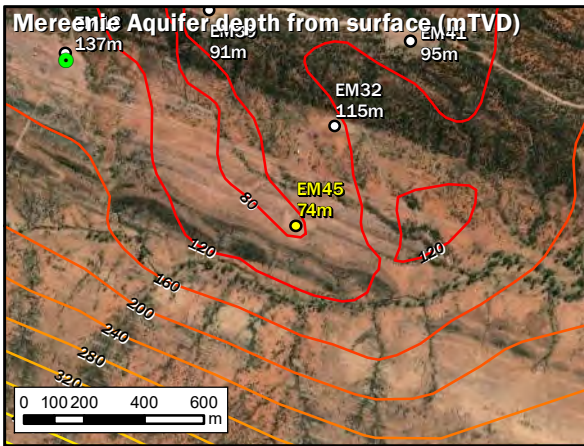
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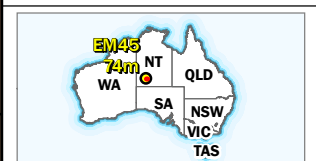
EAST MEREENIE 45

- Well
- Conservation Significant Flora
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
 - brilliant hopbush
 - false caustic bush
- Streams (modified CTP after NT Drainage Lines)
 - 5m riparian zone
- Flare Pit
- Sump

ID: 0534-010
Rev:
Date: 6/12/2022

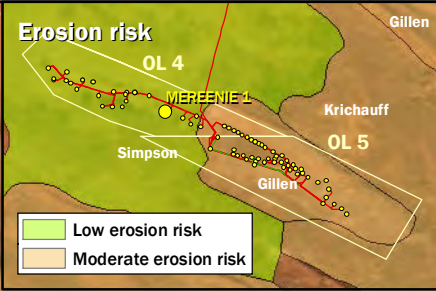
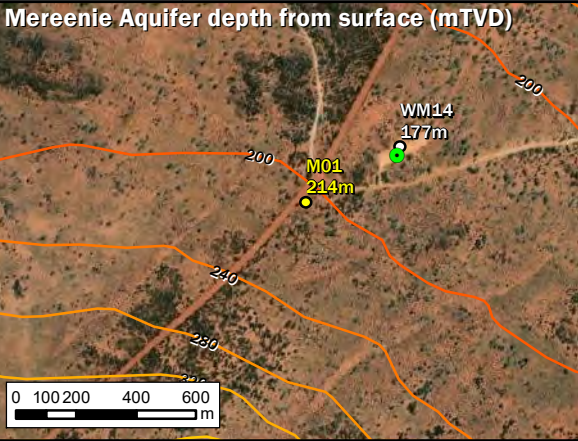
Map Scale is 1:1,500 when printed at A4
Coordinate System: GCS WGS 1984

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MEREENIE 1

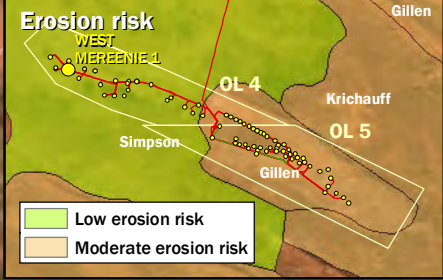
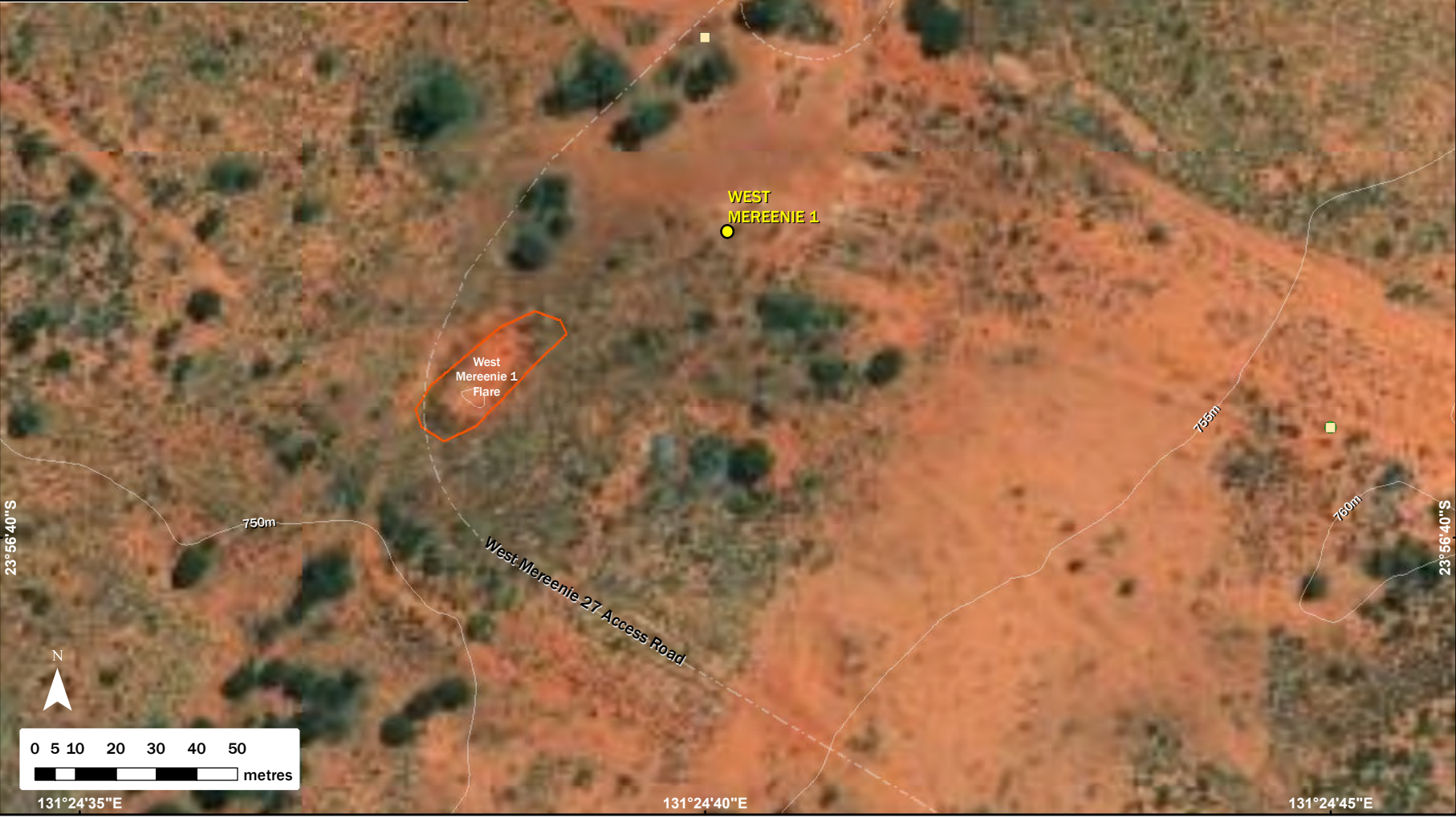
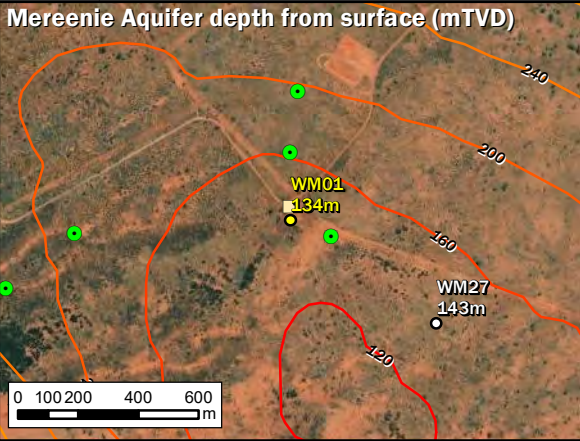
- Well
- Water bore
- Conservation Significant Flora (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
 - brilliant hopbush
 - false caustic bush

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WEST MEREENIE 1

- Well
- (TPWCA Status)
- Data Deficient
 - Near Threatened
- Conservation Significant Flora
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
- (TPWCA Status)
- ◆ Critically Endangered
 - ◇ Data Deficient
 - ◆ Endangered
 - ◇ Near Threatened
 - ◆ Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
- brilliant hopbush
 - false caustic bush
- Flare Pit

ID: 0534-010

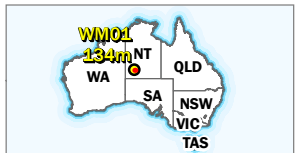
Rev:

Date: 6/12/2022

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Coordinate System: GCS WGS 1984

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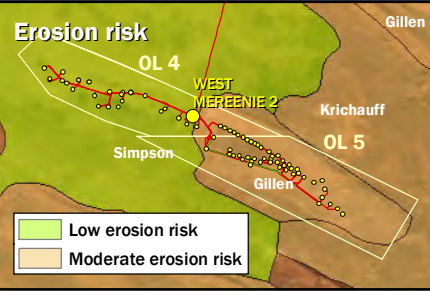
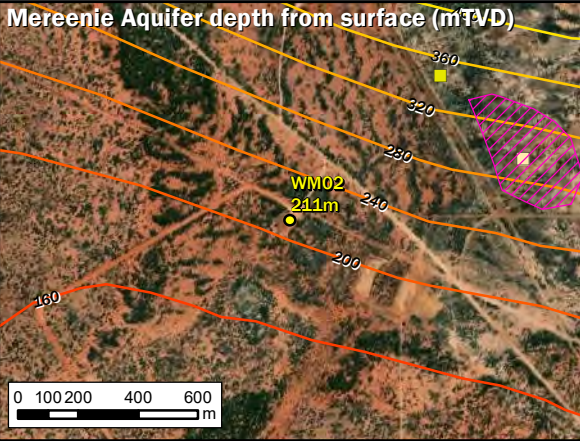


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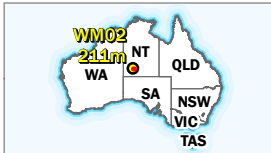
WEST MEREENIE 2

- Well
- Conservation Significant Flora
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
- brilliant hobbush
 - false caustic bush

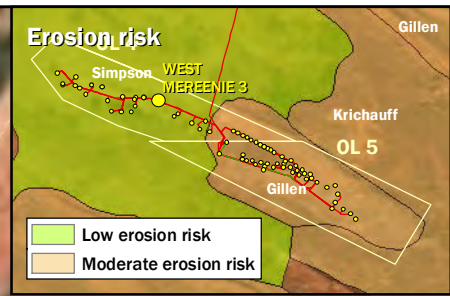
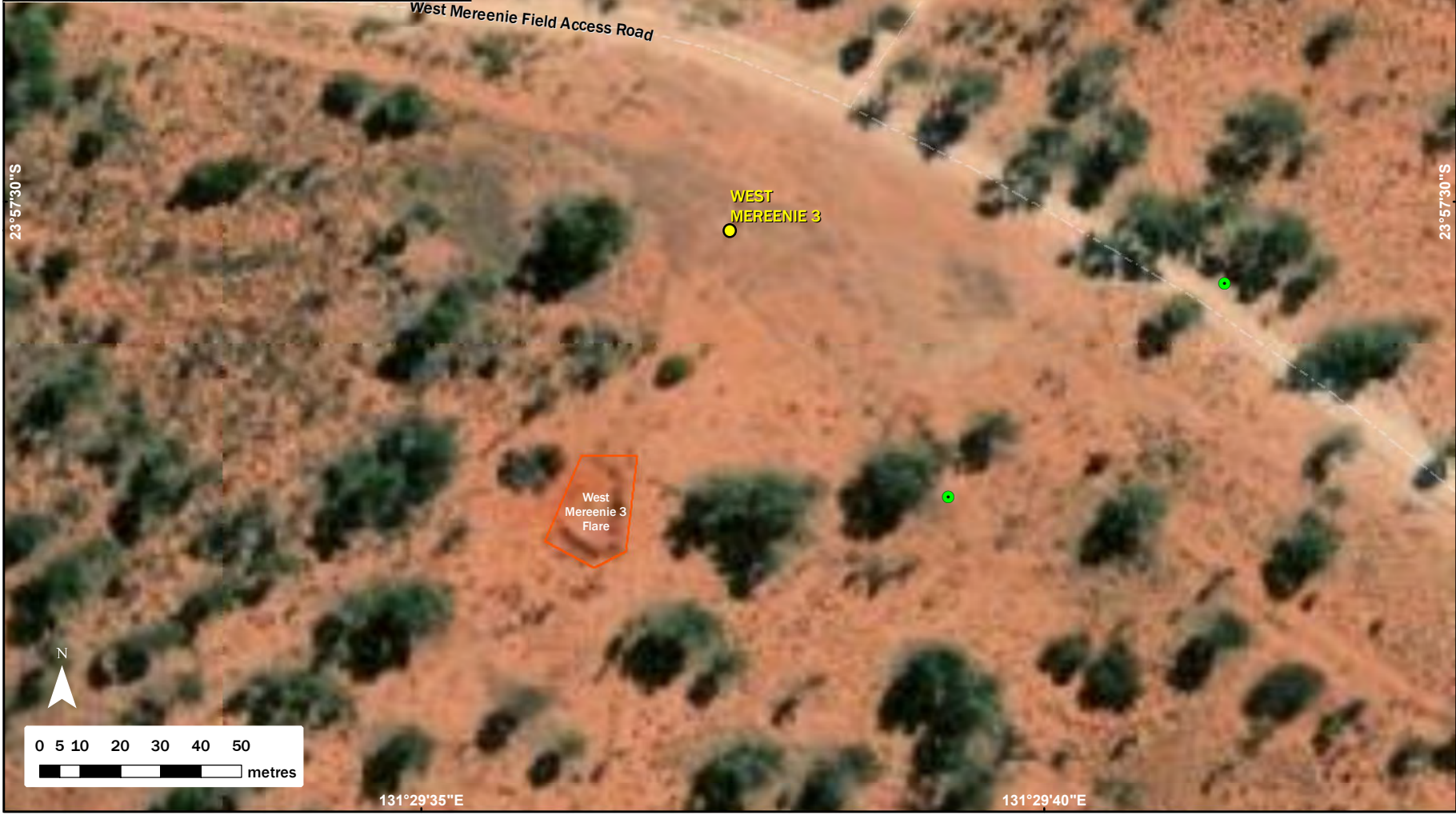
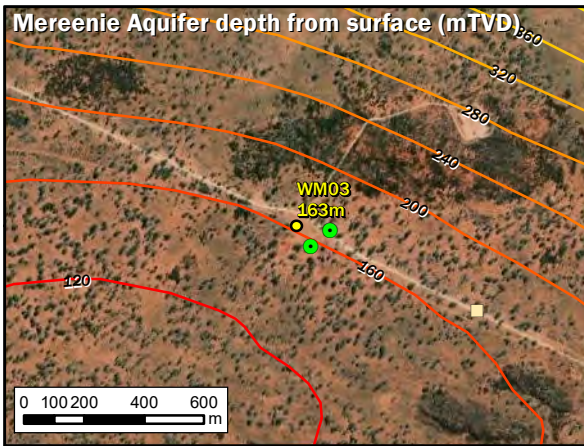
ID: 0534-010
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Date: 6/12/2022

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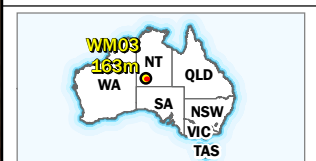
WEST MEREENIE 3

- Well
- Conservation Significant Flora
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
- brilliant hopbush
 - false caustic bush
- Flare Pit

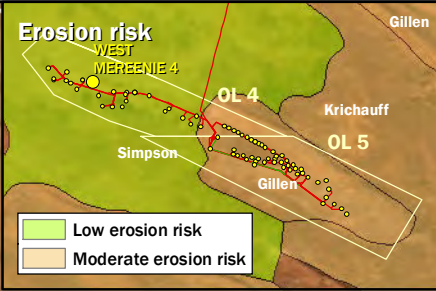
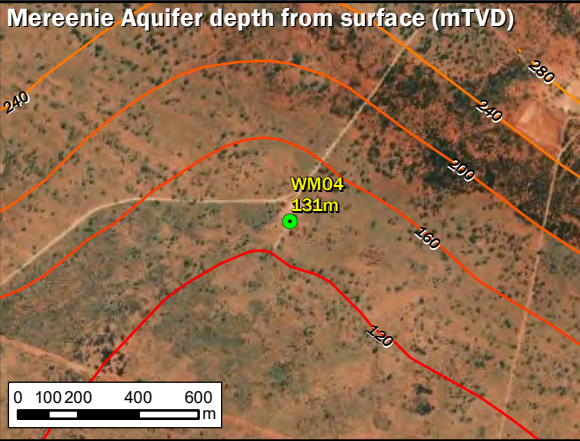
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WEST MEREENIE 4

- Well
- Conservation Significant Flora
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
- brilliant hopbush
 - false caustic bush
- Flare Pit

ID: 0534-010
Rev:
Date: 6/12/2022

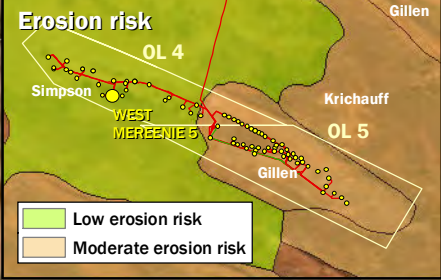
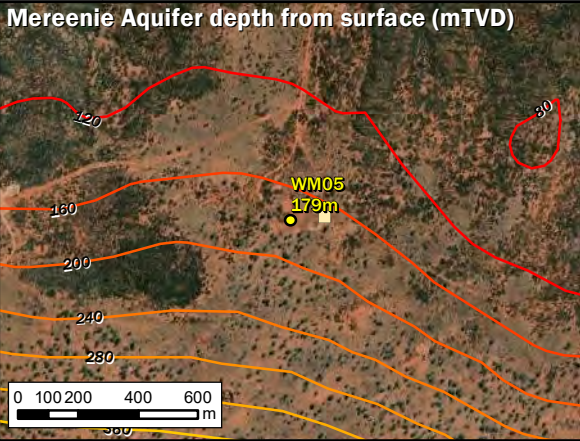
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Coordinate System: GCS WGS 1984

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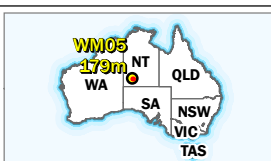
WEST MEREENIE 5

- Well
- Conservation Significant Flora
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
- brilliant hopbush
 - false caustic bush
- Flare Pit

ID: 0534-010
Rev:
Date: 6/12/2022

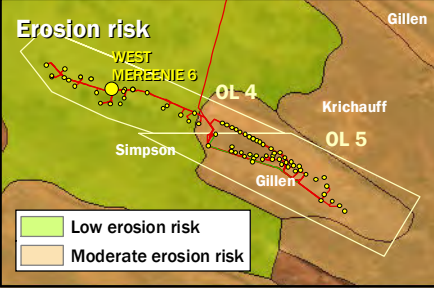
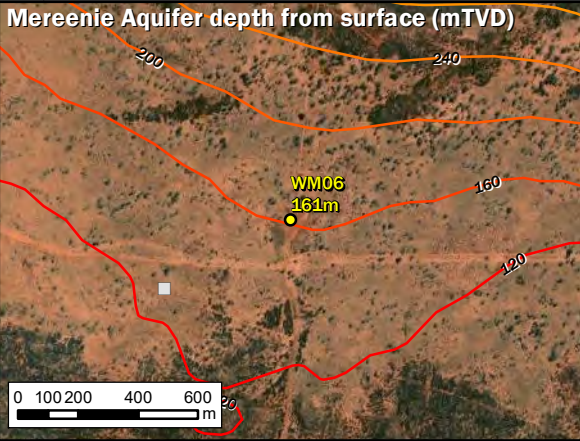
Map Scale is 1:1,500 when printed at A4
Coordinate System: GCS WGS 1984

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WEST MEREENIE 6

- Well
- Conservation Significant Flora (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
- brilliant hopbush
 - false caustic bush
- Flare Pit

ID: 0534-010
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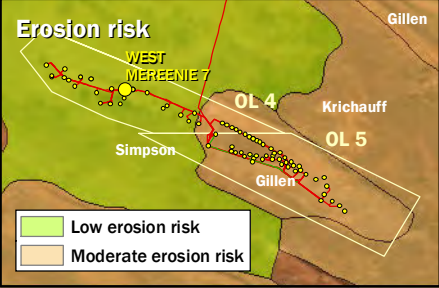
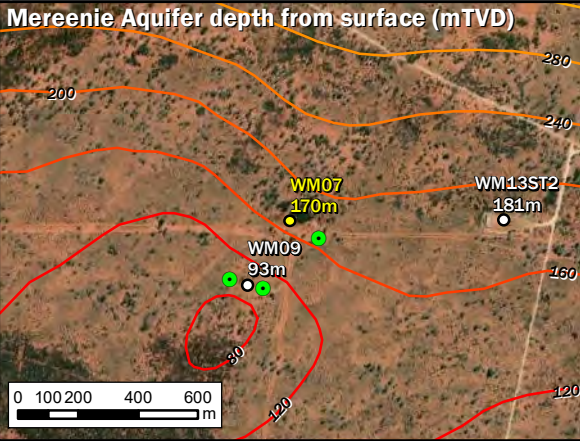
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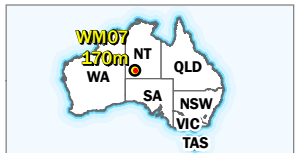
WEST MEREENIE 7

- Well
- Conservation Significant Flora
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
- brilliant hobbush
 - false caustic bush

ID: 0534-010
Rev:
Date: 6/12/2022

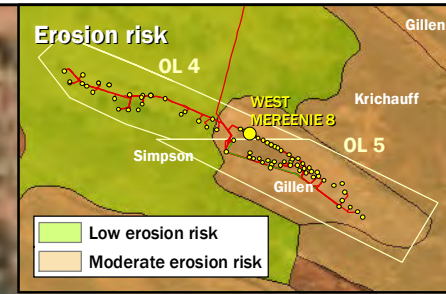
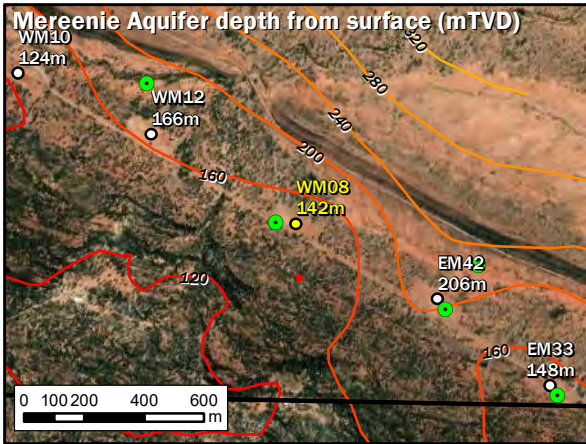
Map Scale is 1:1,500 when printed at A4
Coordinate System: GCS WGS 1984

Streams modified to match imagery and DEM by Central Petroleum after NT Drainage Lines: Australian Hydrological Geospatial Fabric (Geofabric) V2.1.1 Modified by: DENR. Significant Flora (TPWCA Status) - Department of Environment and Natural Resources, Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment. Significant Fauna (TPWCA Status), Land Systems from Department of Environment and Natural Resources - Copyright Northern Territory Government. Environmental Weeds from "Low Ecological Services Pty Ltd, 2019 - Central Petroleum Mereenie Weed Management Plan" and Department of Environment and Natural Resources. TPWCA Near Threatened Flora Populations - Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment.



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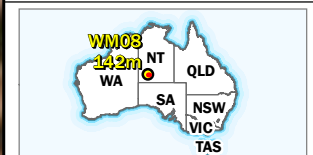
WEST MEREENIE 8

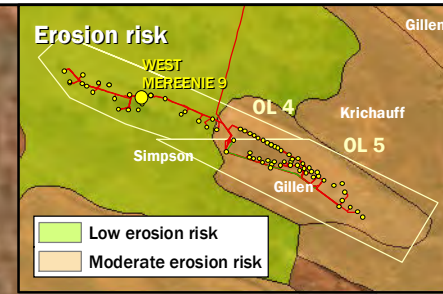
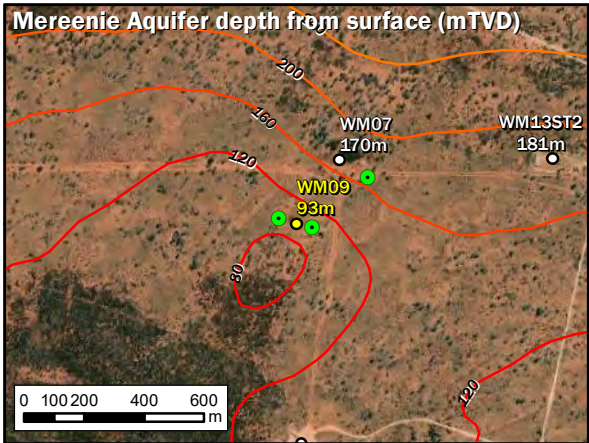
- Well
- Conservation Significant Flora
- (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
- (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
 - brilliant hopbush
 - false caustic bush
- Streams (modified CTP after NT Drainage Lines)
 - 5m riparian zone
- Flare Pit

ID: 0534-010
Rev:
Date: 6/12/2022

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WEST MEREEENIE 9

Well

Conservation Significant Flora

(TPWCA Status)

Critically Endangered

Data Deficient

Endangered

Near Threatened

Vulnerable

Conservation Significant Fauna

(TPWCA Status)

Critically Endangered

Data Deficient

Endangered

Near Threatened

Vulnerable

Environmental Weeds

TPWCA Near Threatened Flora Populations

brilliant hopbush

false caustic bush

Flare Pit

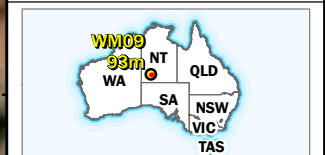
ID: 0534-010

Rev:

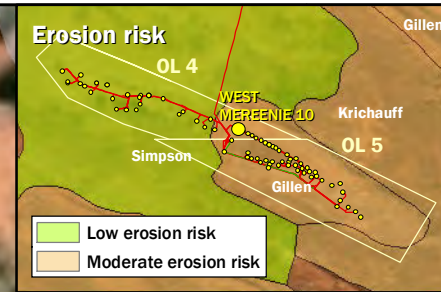
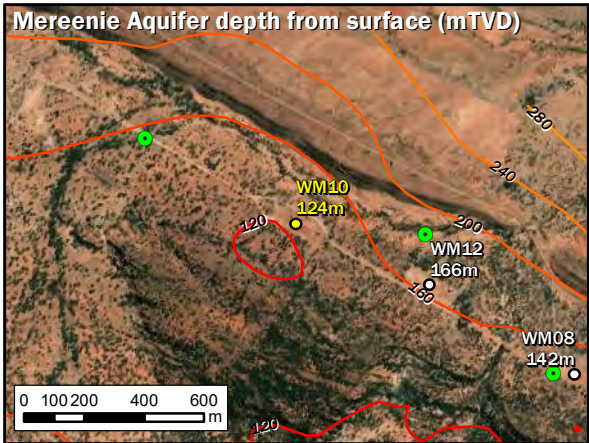
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Map Scale is 1:1,500 when printed at A4
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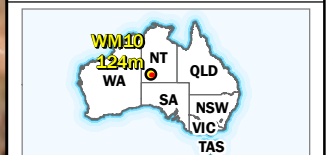
WEST MEREENIE 10

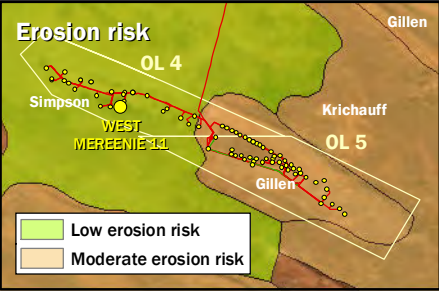
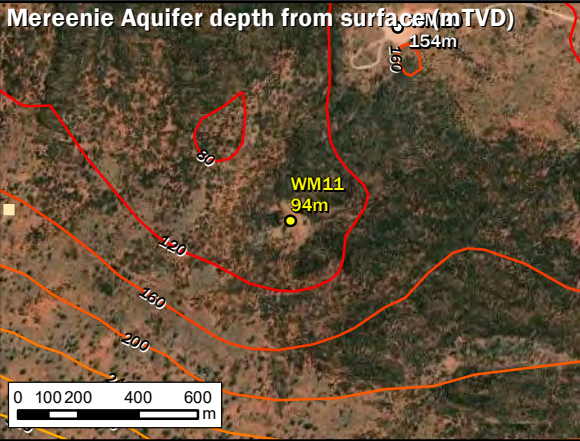
- Well
- Conservation Significant Flora
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
 - (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
 - brilliant hopbush
 - false caustic bush
- TPWCA Near Threatened Flora Populations
 - Streams (modified CTP after NT Drainage Lines)
 - 5m riparian zone
- Flare Pit
- Sump

ID: 0534-010
Rev:
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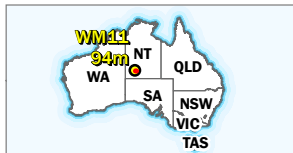
WEST MEREENIE 11

- Well
- Conservation Significant Flora
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
- brilliant hopbush
 - false caustic bush
- Flare Pit
- Sump

ID: 0534-010
Rev:
Date: 6/12/2022

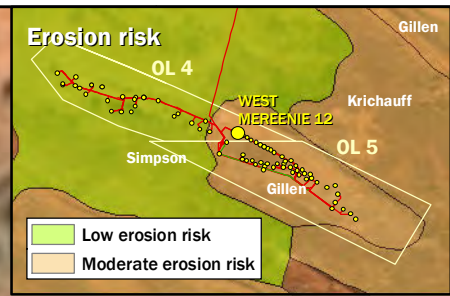
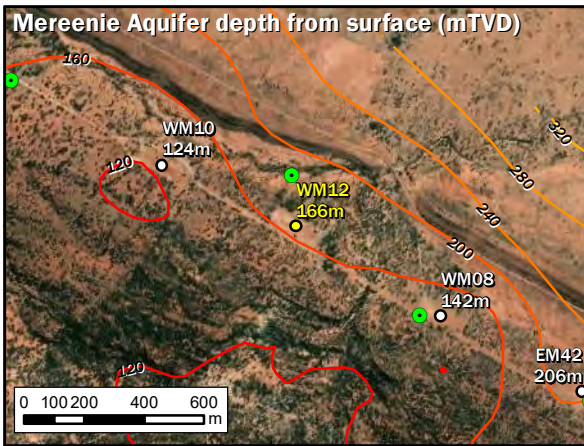
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Streams modified to match imagery and DEM by Central Petroleum after NT Drainage Lines: Australian Hydrological Geospatial Fabric (Geofabric) V2.1.1 Modified by: DENR. Significant Flora (TPWCA Status) - Department of Environment and Natural Resources, Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment. Significant Fauna (TPWCA Status), Land Systems from Department of Environment and Natural Resources - Copyright Northern Territory Government. Environmental Weeds from "Low Ecological Services Pty Ltd, 2019 - Central Petroleum Mereenie Weed Management Plan" and Department of Environment and Natural Resources. TPWCA Near Threatened Flora Populations - Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment.



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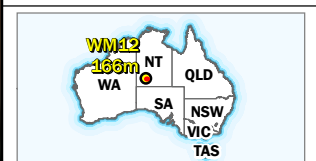
WEST MEREENIE 12

- Well
- Conservation Significant Flora
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
- (TPWCA Status)
- ◆ Critically Endangered
 - ◆ Data Deficient
 - ◆ Endangered
 - ◆ Near Threatened
 - ◆ Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
- brilliant hobbush
 - false caustic bush
- Flare
- Fence
- Flare Pit

ID: 0534-010
Rev:
Date: 6/12/2022

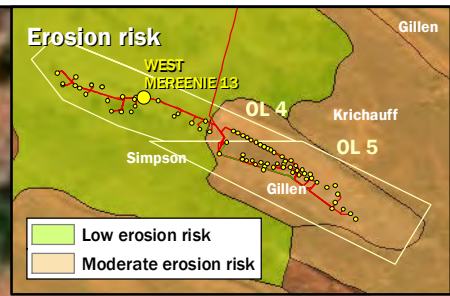
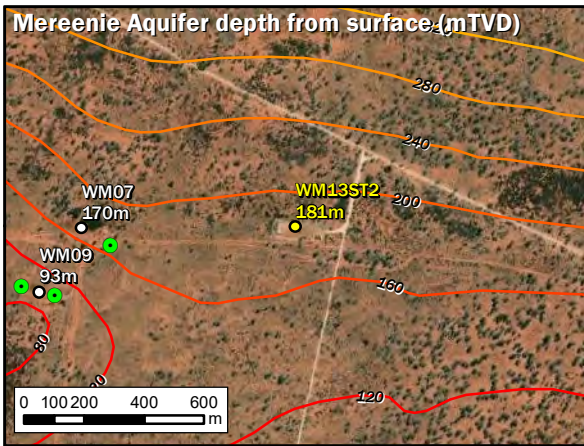
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Streams modified to match imagery and DEM by Central Petroleum after NT Drainage Lines: Australian Hydrological Geospatial Fabric (Geofabric) V2.1.1 Modified by: DENR. Significant Flora (TPWCA Status) - Department of Environment and Natural Resources, Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment. Significant Fauna (TPWCA Status), Land Systems from Department of Environment and Natural Resources - Copyright Northern Territory Government. Environmental Weeds from "Low Ecological Services Pty Ltd, 2019 - Central Petroleum Mereenie Weed Management Plan" and Department of Environment and Natural Resources. TPWCA Near Threatened Flora Populations - Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment.



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WEST MEREENIE 13

Well

Conservation Significant Flora

(TPWCA Status)

- Critically Endangered
- Data Deficient
- Endangered
- Near Threatened
- Vulnerable

Conservation Significant Fauna

(TPWCA Status)

- Critically Endangered
- Data Deficient
- Endangered
- Near Threatened
- Vulnerable

Environmental Weeds

TPWCA Near Threatened Flora Populations

- brilliant hopbush
- false caustic bush

Flare Pit

ID: 0534-010
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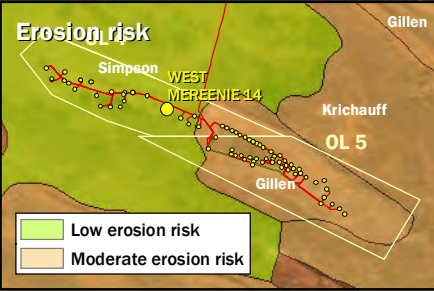
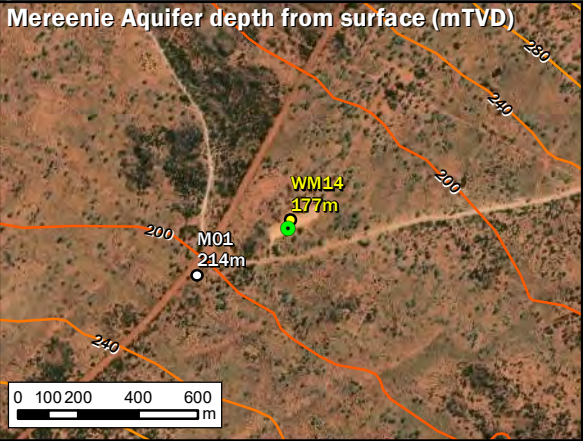
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NT
WA
QLD
SA
NSW
VIC
TAS

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WEST MEREENIE 14

- Well
- Conservation Significant Flora
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
- brilliant hopbush
 - false caustic bush
- Flare Pit

ID: 0534-010

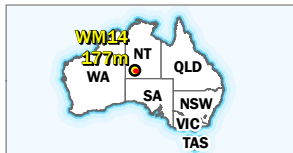
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Date: 6/12/2022

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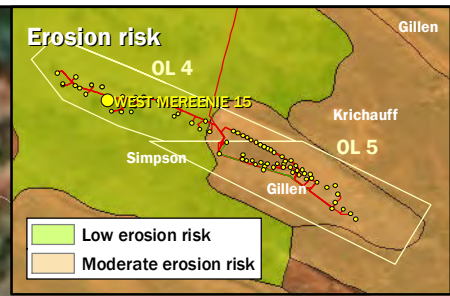
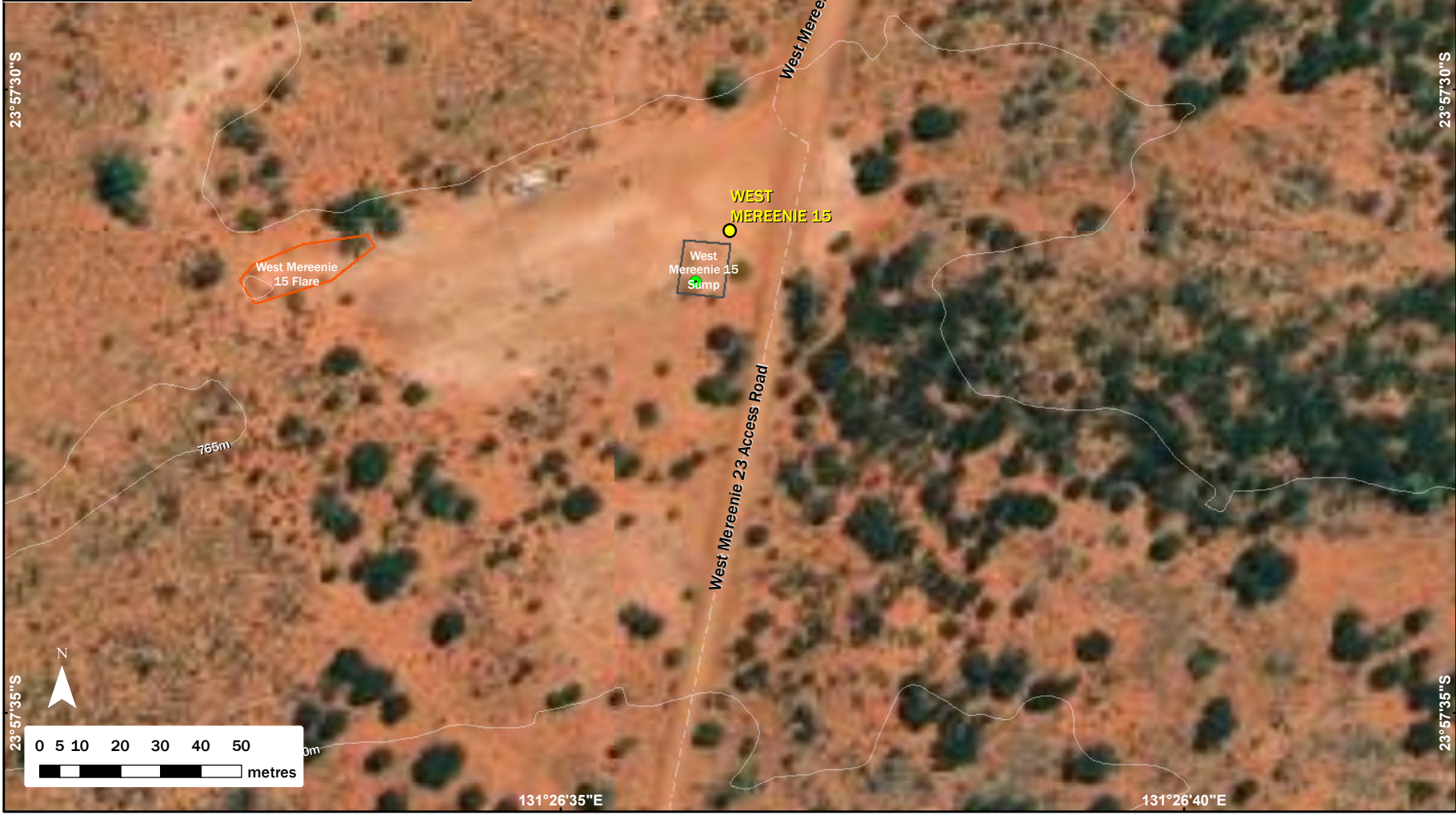
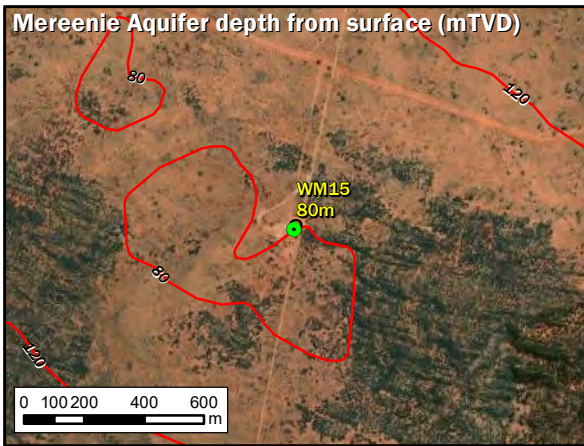


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WEST MEREENIE 15

Well

Conservation Significant Flora

(TPWCA Status)

- Critically Endangered
- Data Deficient
- Endangered
- Near Threatened
- Vulnerable

Conservation Significant Fauna

(TPWCA Status)

- Critically Endangered
- Data Deficient
- Endangered
- Near Threatened
- Vulnerable

Environmental Weeds

TPWCA Near Threatened Flora Populations

- brilliant hopbush
- false caustic bush

Flare Pit

Sump

ID: 0534-010

Rev:

Date: 6/12/2022

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Coordinate System: GCS WGS 1984

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WM15
80m

NT

QLD

WA

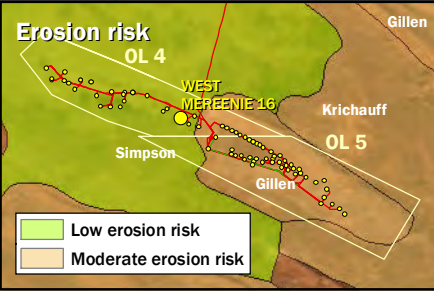
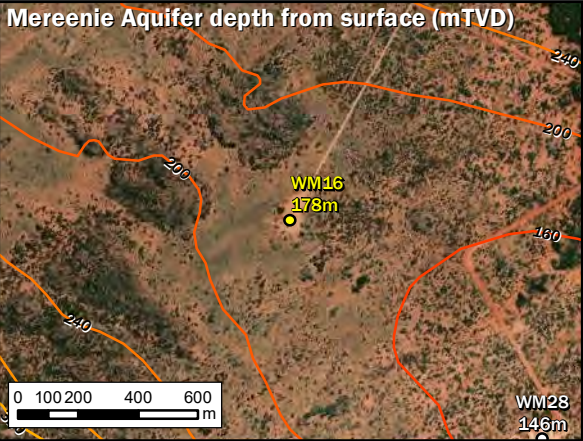
SA

NSW

VIC

TAS

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WEST MEREENIE 16

- Well
- Conservation Significant Flora
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- brilliant hopbush
 - false caustic bush
- Sump

ID: 0534-010
Rev:
Date: 6/12/2022

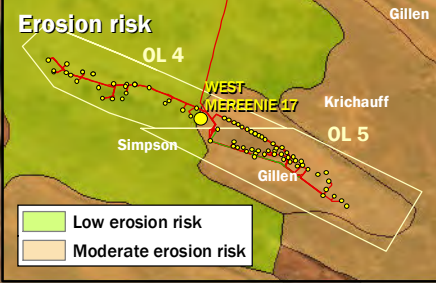
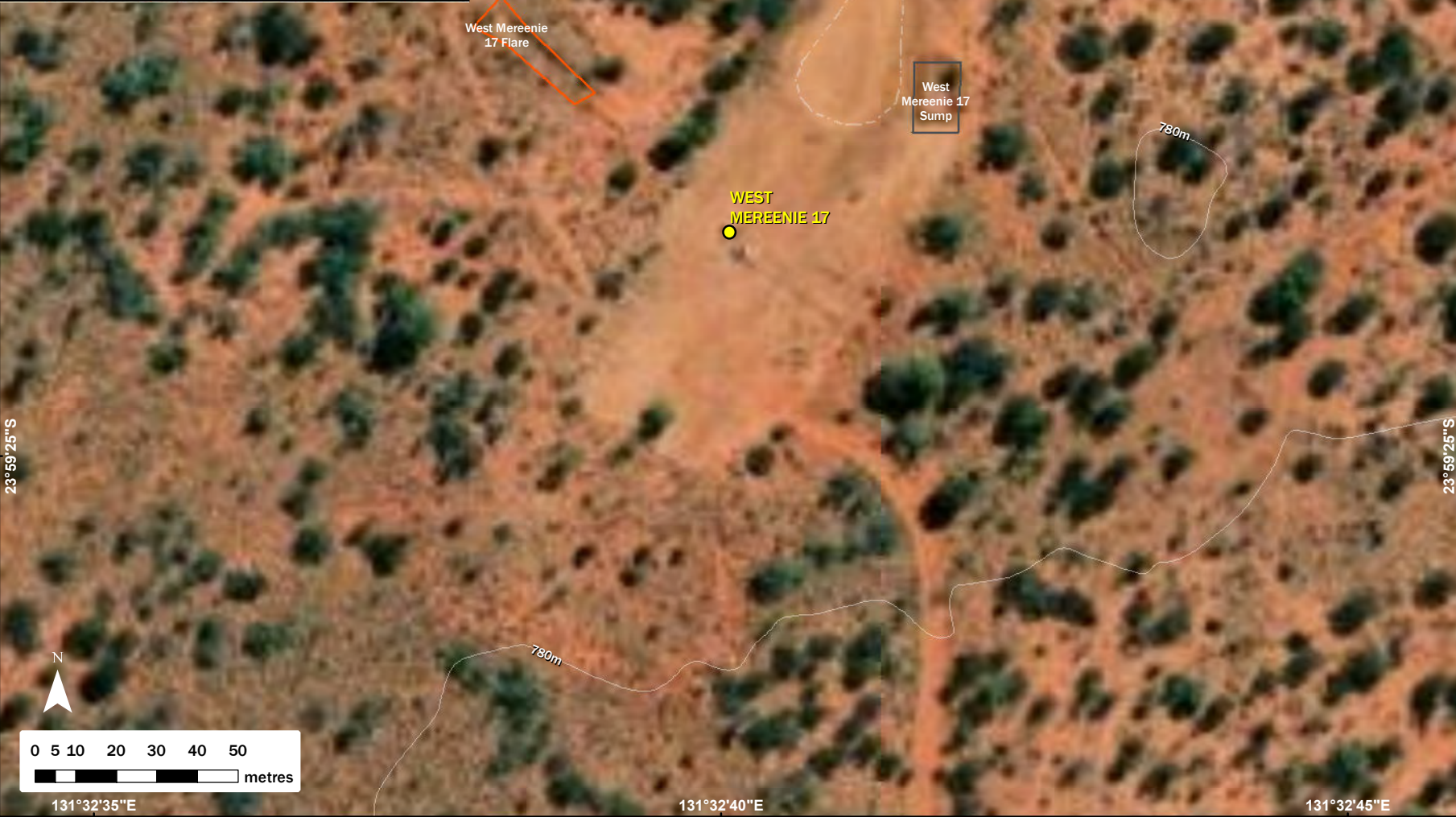
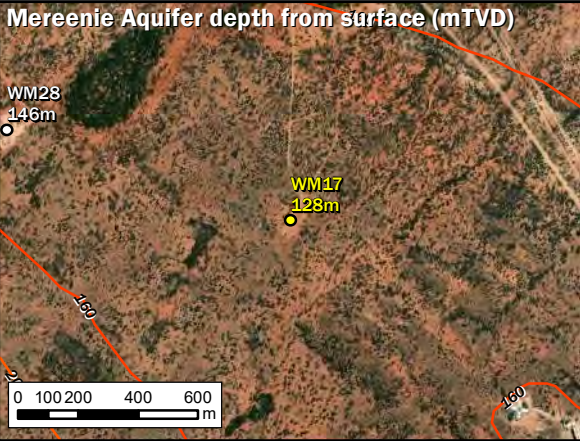
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Streams modified to match imagery and DEM by Central Petroleum after NT Drainage Lines: Australian Hydrological Geospatial Fabric (Geofabric) V2 1:1 Modified by: DENR. Significant Flora (TPWCA Status) - Department of Environment and Natural Resources, Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment. Significant Fauna (TPWCA Status), Land Systems from Department of Environment and Natural Resources - Copyright Northern Territory Government. Environmental Weeds from 'Low Ecological Services Pty Ltd, 2019 - Central Petroleum Mereenie Weed Management Plan' and Department of Environment and Natural Resources. TPWCA Near Threatened Flora Populations - Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment.



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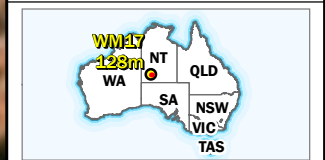
WEST MEREENIE 17

- Well
- Conservation Significant Flora
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
- brilliant hopbush
 - false caustic bush
- Flare Pit
- Sump

ID: 0534-010
Rev:
Date: 6/12/2022

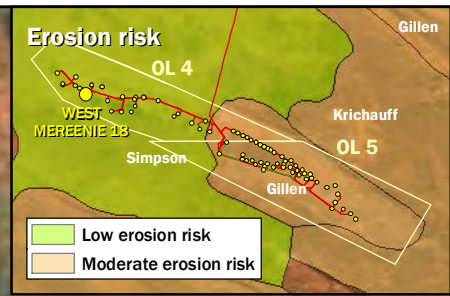
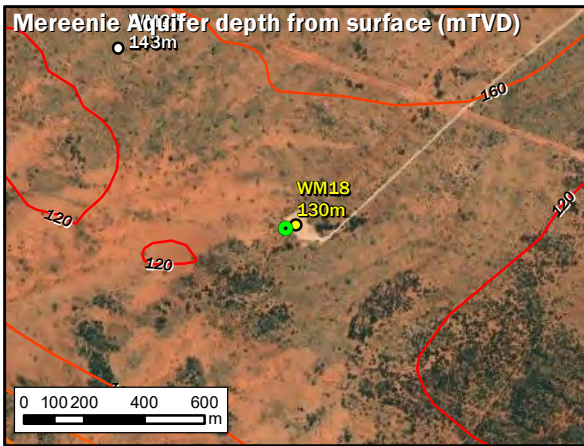
Map Scale is 1:1,500 when printed at A4
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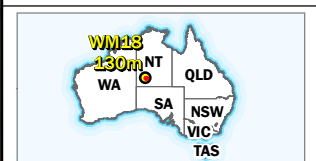
WEST MEREENIE 18

- Well**
- Conservation Significant Flora**
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna**
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds**
- TPWCA Near Threatened Flora Populations**
- brilliant hopbush
 - false caustic bush
- Flare Pit**
- Sump**

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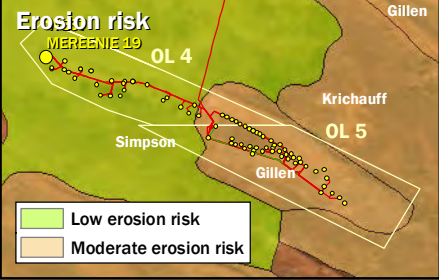
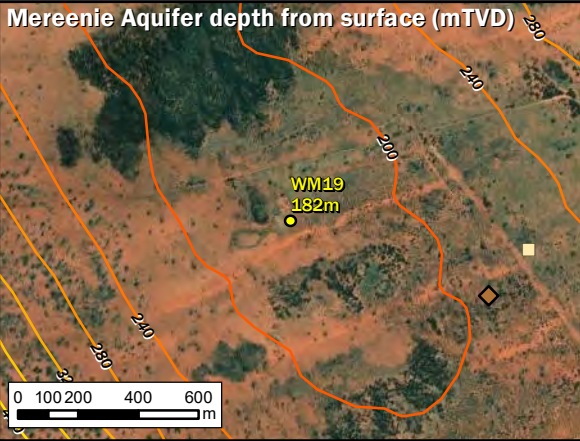
Map Scale is 1:1,500 when printed at A4
Coordinate System: GCS WGS 1984

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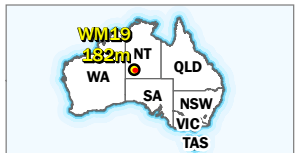
WEST MEREENIE 19

- Well
- Conservation Significant Flora
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna
- (TPWCA Status)
- Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Environmental Weeds
- TPWCA Near Threatened Flora Populations
- brilliant hopbush
 - false caustic bush
- Flare Pit
- Sump

ID: 0534-010
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Map Scale is 1:1,500 when printed at A4
Coordinate System: GCS WGS 1984

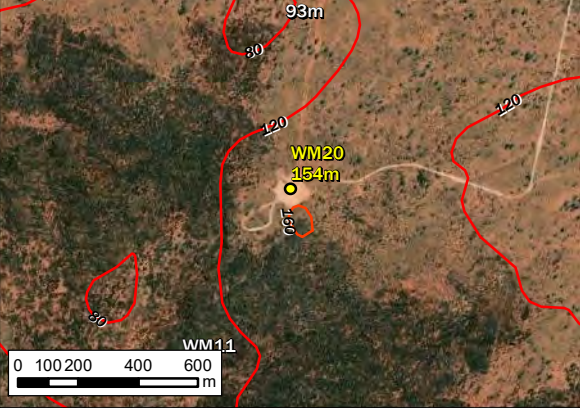
Streams modified to match imagery and DEM by Central Petroleum after NT Drainage Lines: Australian Hydrological Geospatial Fabric (Geofabric) V2 1:1 Modified by: DENR. Significant Flora (TPWCA Status) - Department of Environment and Natural Resources, Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment. Significant Fauna (TPWCA Status), Land Systems from Department of Environment and Natural Resources - Copyright Northern Territory Government. Environmental Weeds from "Low Ecological Services Pty Ltd, 2019 - Central Petroleum Mereenie Weed Management Plan" and Department of Environment and Natural Resources. TPWCA Near Threatened Flora Populations - Parks and Wildlife Commission of the Northern Territory 2000. Central Petroleum Flora and Fauna Assessment.



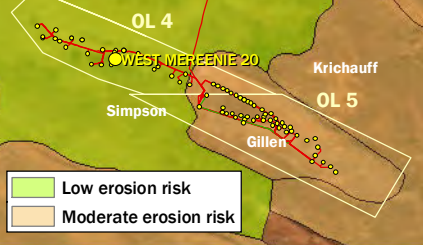
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Mereenie Aquifer depth from surface (mTVD)



Erosion risk



WEST MEREENIE 20

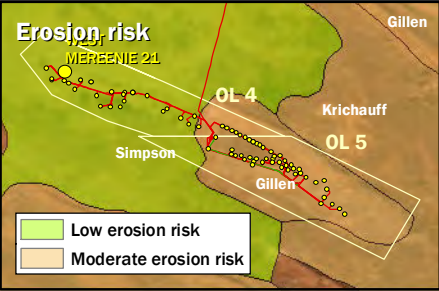
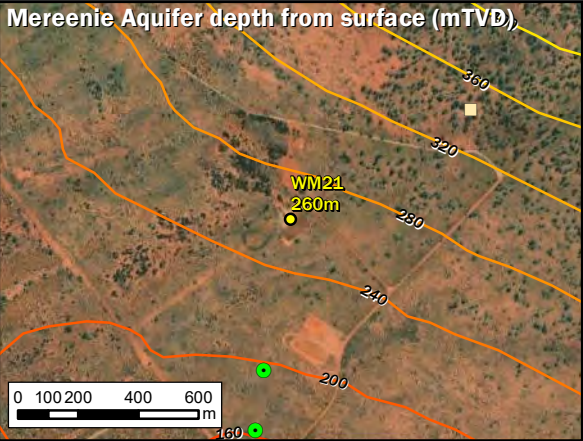
- Well
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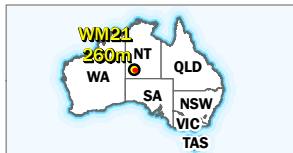
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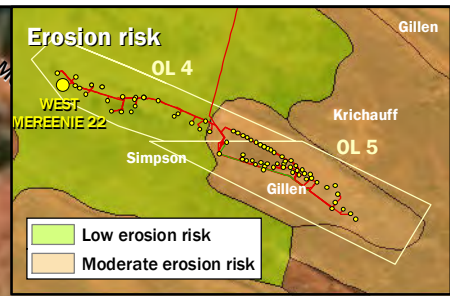
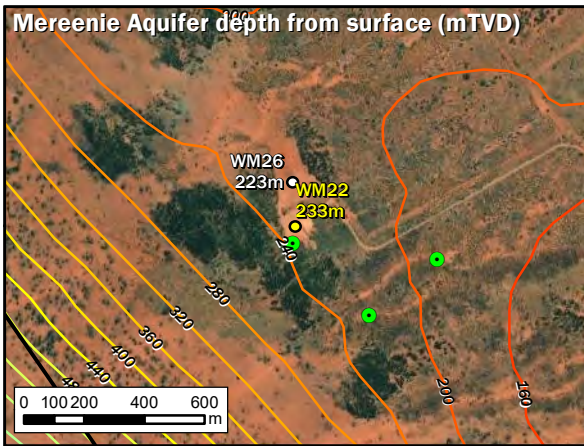
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WEST MEREENIE 22

Well

Conservation Significant Flora

(TPWCA Status)

- Critically Endangered
- Data Deficient
- Endangered
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- Vulnerable

Conservation Significant Fauna

(TPWCA Status)

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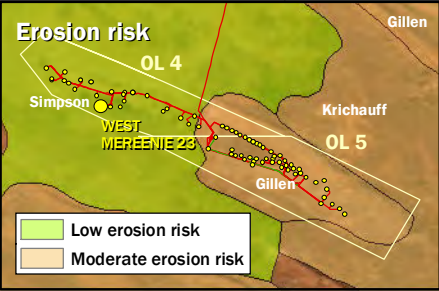
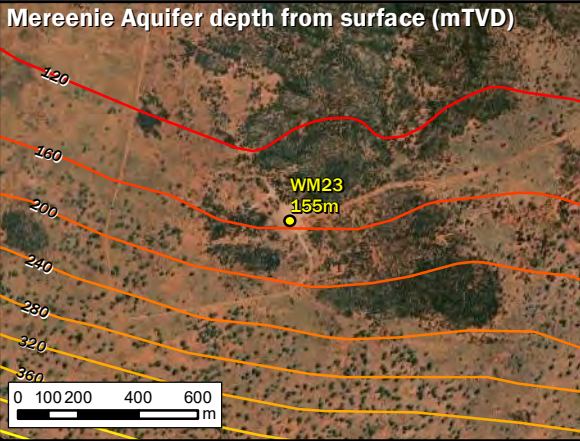
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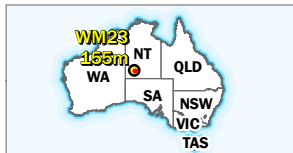
WEST MEREENIE 23

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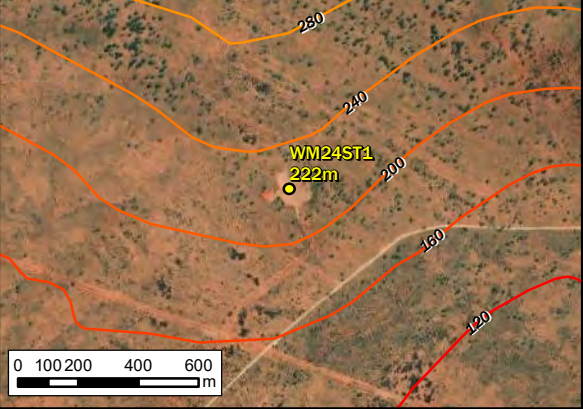
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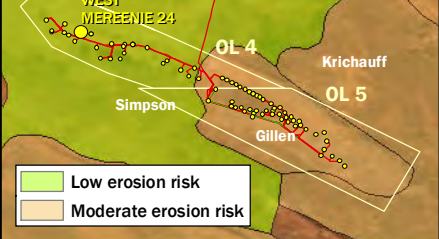
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Mereenie Aquifer depth from surface (mTVD)



Erosion risk



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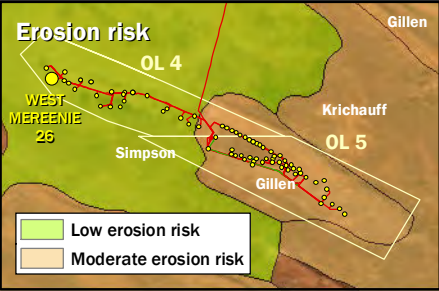
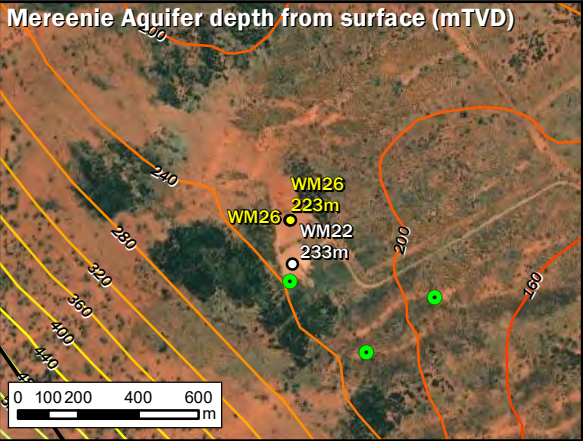
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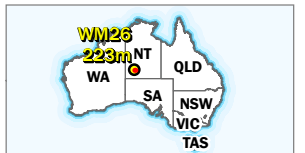
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- Well
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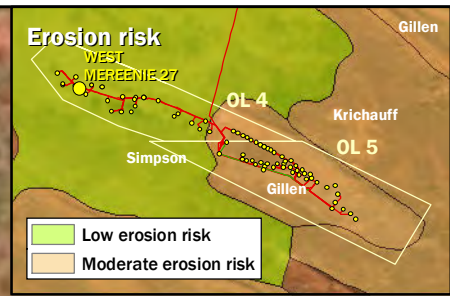
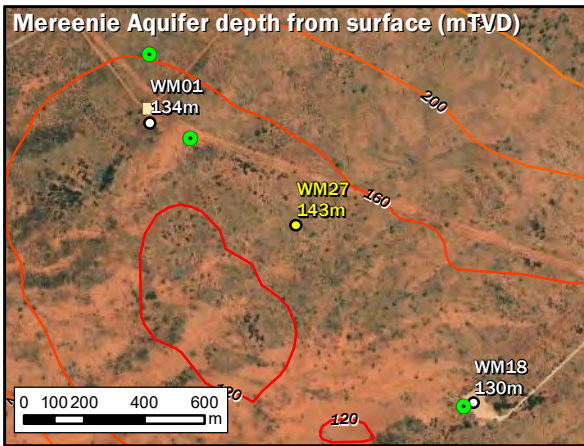
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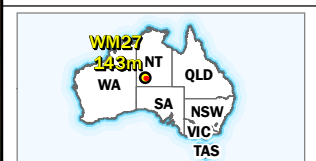
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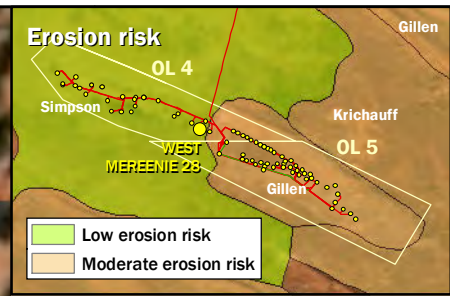
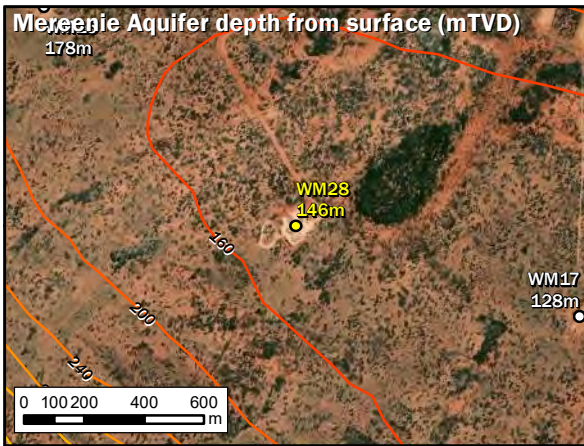
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Appendix 5. Emergency Response Plan

Mereenie Emergency Response Plan



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1. Introduction

1.1 Purpose

The Emergency Response Plan is designed to direct and guide the Site Emergency Response Team (SERT) to respond effectively to site emergencies and resume normal operations. It identifies persons responsible for managing and/or assisting in an emergency and provides general guidelines and tools to assist in the process.

1.2 Scope

An emergency is defined as an event (actual or imminent) which endangers or threatens to endanger life, property or the environment, and in the context of this plan requires a coordinated response.

This plan is applicable to all employees, contractors and visitors to Mereenie and the following assets and associated infrastructure operated by Central Petroleum (CTP):

- well sites
- gathering lines
- gas processing facilities
- oil storage tanks
- site offices and workshops
- camp.

This plan is to be used in conjunction with CTP's Emergency Management Plan (MSTD-PLN001 VX).

Areas under the control of a principal contractor are not covered under this plan however CTP's contract manager/owner must review and approve the contractors' plans and if necessary, create a bridging document detailing any additional requirements and support required as well as establishing clear notification protocols.

All ERP's shall be reviewed annually and if changes to plant and conditions occur.


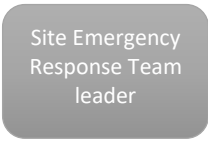
1.3 Emergency response Training

All personnel shall receive Emergency Response training in an ongoing manner at each operational site. This training shall consist of both in field and desktop scenarios. Each site shall ensure the training is held (where operational viable) every 6 weeks.

1.4 Emergency Management Approach

CTP uses a two-tiered approach to emergency management as outlined in Figure 1.

Figure 1

Level	Examples	Document	Owner
Level 1 – Emergency Response	<ul style="list-style-type: none"> ▪ Control of the situation does not require external support ▪ Non-life-threatening ▪ Not expected to escalate ▪ Limited damage to the environment, assets or reputation 		

**Level 2 -
Emergency
Management**

- Control of the situation requires external support
- Life is at risk
- Major damage to the environment, assets or reputation
- Situation may have personnel, technical, operational or public affairs implications
- Highly likely to impact CTP's reputation

Emergency
Management
Plan

Emergency
Management
Team leader

In addition to and supporting this plan, the Emergency Management Team (EMT) and Emergency Management Plan (EMP) outlines the responsibilities, actions and resources available at head office to support site in the event of a significant emergency.

1.5 Response Priorities

In managing an incident, the SERT will focus their response to ensure:

- our **people** are accounted for and safe.
- we minimise impact on the **environment**
- our **assets** are protected
- CTP's **reputation** is safeguarded.

1.6 Related Documents

Whilst this plan has been designed to be a standalone document, references are made throughout to various other documents which may be useful in the event of an emergency. It is the responsibility of all SERT members to be familiar with the processes and standards within their area of responsibility, and conduct regular exercises to ensure readiness

2. Site Emergency Response Team

2.1 Roles and Responsibilities

The following specific roles and responsibilities are essential to ensure effective management and accountability during an emergency:

- first responder
- SERT leader – the Person in Charge (PIC) on site
- SERT coordinator (supported by a log keeper)
- SERT first aider

Operators, technicians and logistics personnel will assist the SERT leader and may be required to undertake multiple roles depending on the nature of the emergency, its duration and complexity.

If for some reason the SERT leader is unable / unavailable to perform their duties, an alternate person must be identified. Should for some reason SERT members be unable to perform their duties, the SERT leader will allocate other suitably trained persons. On shift SERT role information is to be displayed on the notice board or in the site emergency response room.

Depending on the nature and severity of the emergency, the EMT may be activated to support issues such as:

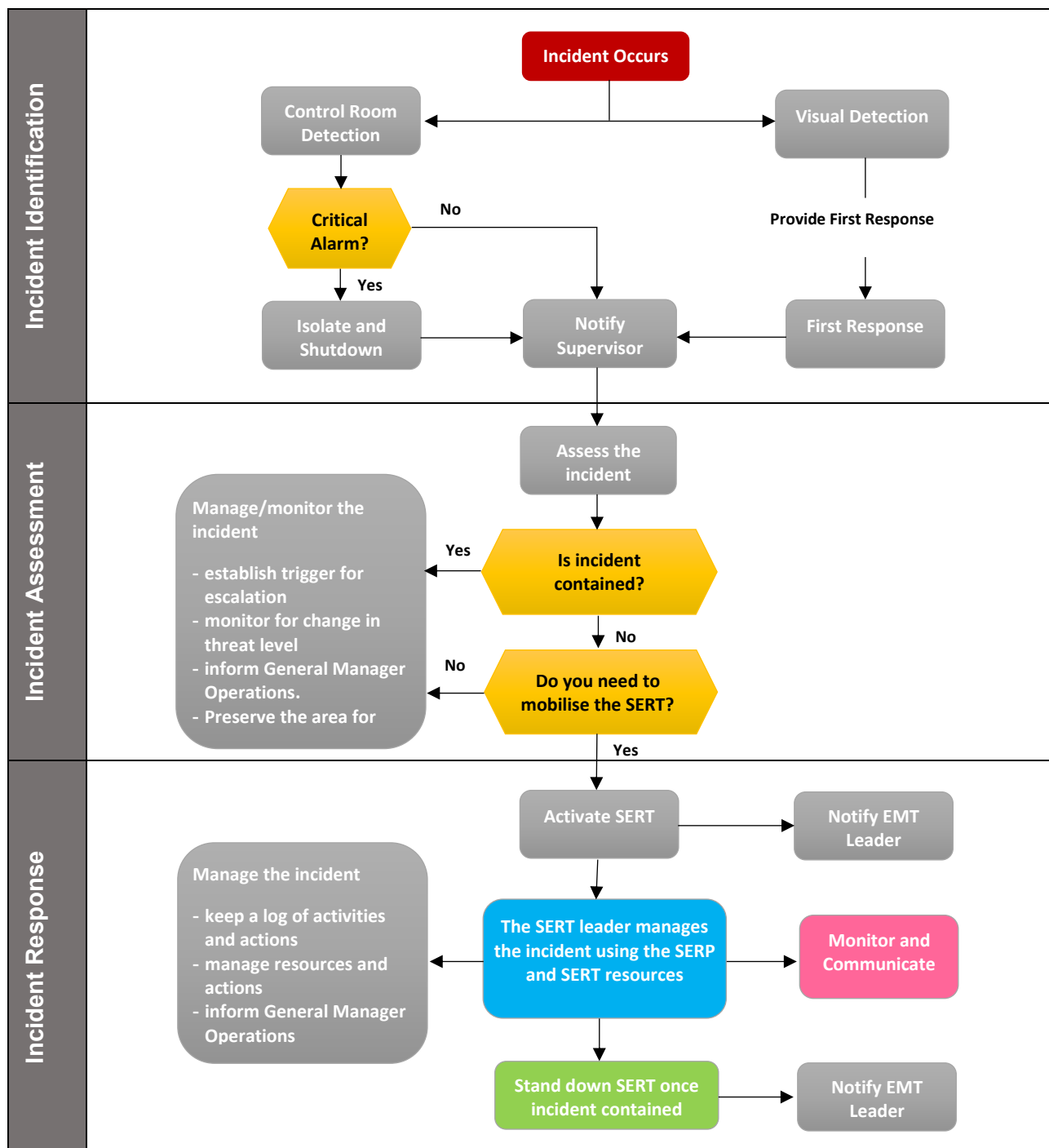
- regulatory and stakeholder notifications
- additional manning
- sourcing assets required to support the site, such as aviation
- medical or other emergency services
- mutual aid or contractor resources.

For more detailed information regarding the above SERT roles, refer to the role cards in Section 4.1.

3. Emergency Response Process

Identification, assessment and response processes are outlined in Figure 2 below. Further guidance is available in the role cards in Section 4.1.

Figure 2



3.1 Identification

When an event (actual or imminent) endangers or threatens to endanger life, property or the environment, the first responder must, if safe to do so, take action aligned with the first responder role card. It's important everyone is familiar with the responsibilities and initial actions of the first responder.

3.2 Notification

Once immediate action is taken, the first responder must raise the alarm and advise the production supervisor as to the nature of the emergency and any assistance required. An alarm can be raised:

- in person
- by radio (using prefix 'Emergency, Emergency, Emergency')
- by landline or mobile phone (not in restricted areas)
- by SOS alarm on a tracker.

3.2 Assessment

Once notified and briefed, the production supervisor will assess the incident in line with the Emergency Assessment and Escalation Matrix (Figure 3) and call on their experience to determine if the SERT should be activated. Note that even if the thresholds are not met, the SERT may still be activated at the discretion of the PIC on site.

Figure 3

	Site Emergency Response Team	Emergency Management Team
Activation	The SERT may activate if any of the below criteria is met	The EMT may be activated if any of the below criteria are met
Escalation/Notification	If the team is activated, the SERT leader notifies and provides a summary to the EMT leader	If the EMT is activated, the EMT leader contacts the EMT members and notifies the CEO
Risk Impact	Serious	Critical or Extreme
Injury / Illness to workers	Injury or ill health requiring medical treatment	Fatality or injury/ill health requiring extensive medical treatment (e.g. amputation, spinal injuries, etc.)
Loss of workforce capacity (pandemic or industrial action)	Loss of key staff impacting on operational output or threat of industrial action	Operations compromised due to staff being unavailable
Personnel and asset security	Non-specific threat to CTP staff e.g. protests, suspicious packages, bomb threats, etc.	Community protest action e.g. threats to CTP staff, bomb threat, suspicious packages, security incidents
Environment and / or Community	Localised and / or short-term environment and/or community incident/emergency	Extensive environmental or community incident such as significant contamination, offsite pollution or fatality
Natural Disaster	Predicted or localised damage to facilities/assets e.g. storms, external fires, flooding	Storm, fire, flood damage. Forecast natural disaster (widespread). Multiple locations impacted
Fire and Explosion	Small localised fires or explosions extinguishable by site resources	Uncontrolled fire/explosion requiring external emergency support
Property Damage	Serious damage to CTP assets / third party property	Major damage to CTP assets / third party property
Loss of Containment (LOC) – chemical spill, solid, vapor, liquid.	Major accident event or event requiring HAZMAT response, or non-hazardous substance spill that meets response activating SERP scenario. Any spill to water	Uncontrolled release unable to be isolated and contained within an hour after activating SERT scenario
Laws, regulations, civil actions	Breach of regulations regarding investigations and reporting to authorities. Possible prosecution/fine	Litigation/prosecution by regulator which could lead to temporary plant closure
Stakeholders / Media	Local media coverage. Health and / or safety concerns to local community	State/ national or social media with potential to impact performance of site/team operations
Facility, Plant or System failure / Cyber attack	Significant breach/IT incident affecting one site/location. Loss of access to single location <4hrs	Significant breach /IT incident affecting more than one site/location. Loss of access to single location for >4hrs
Customer interruption / Supply disruptions	Customer service interruption up to 1 day. Product shortfall at facility or supply point >10 TJ per day	Potential customer service interruption up to 3 days. Supply shortage impacting major customers >25TJ per day
Third party failure (Inc. contractor, supplier or partner)	Restricted impact which can be rectified in the normal course of business e.g. haulage contract	Supply or services disrupted with threat of serious impacts e.g. customers or critical functions
Financial	Cash flow: <\$1m	Cash flow: >\$1m

3.3 Activation

The decision to activate the SERT in an emergency is the responsibility of the PIC and, once activated, they will assume the role of SERT leader and will engage the appropriate personnel to fulfil the SERT roles. If activated, the SERT leader must notify and brief the EMT leader as soon as practical.

3.4 Response

Initial briefing

The SERTL will provide an initial briefing (see role card for guidance) covering:

- incident details (where, what, when and how)
- SERT priorities (what's the focus of response activity)
- confirm SERT roles
- answering any questions from the team.

Develop response actions

Once briefed, the SERT will commence activities aligned with their role cards and using the emergency action guides to:

- identify priorities and tasks e.g. immediate actions
- assign resources/accountability to execute (timing)
- agree communication protocols (next meeting time).

Once actions have been developed, the SERT leader will if necessary, schedule the next meeting and SERT members will commence delivery of their allocated tasks.

All of the above information will be captured by the SERT coordinator and the log keeper in order to ensure actions are clear and accurate.

SERT meetings

At any subsequent meetings, the SERT leader will provide further updates and members will update the team on their actions / progress.

Role handover

The management of some events/incidents could be time consuming and require EMT members to rest. It is the responsibility of the SERT leader and coordinator to monitor team members and rotate personnel with suitable replacements, if necessary. It is essential that replacement team members receive a thorough hand-over briefing prior to commencing.

If an incident is likely to run for an extended period, it is recommended that the initial handover commences early. For reasons of information continuity and familiarisation with the incident, consideration should be given to changing the team every 6-8 hours.

3.5 Stand-down and recovery

An emergency response ends when the SERT leader is satisfied that objectives have been met and priority shifts to achieving business continuity and recovery. Only the SERT leader can decide to 'stand-down' the SERT and switch the focus to recovery. The stand-down should be undertaken in consultation with the General Manager Operations.

When external emergency services are involved, stand-down must be done in consultation with the relevant agencies.

When standing down, the SERT leader must:

- ensure that all teams are informed of the stand down
- identify and document outstanding issues that need to be addressed after the team is deactivated and assign responsible personnel to address these issues
- ensure evidence is preserved to aid in any investigation

- ensure affected areas are barricaded
- that witness accounts are taken
- where possible, photograph evidence
- capture lessons learned as soon as possible after the event (debrief)
- ensure the site emergency response room is immediately re-stocked.

In addition, before recommencing operations the following questions should be asked:

- has all plant and equipment been tested and confirmed safe?
- have relevant emergency service providers confirmed that normal activities can recommence?
- have relevant government agencies/departments agreed that normal activities can recommence?
- could employees be suffering from the effects of the incident?
- are there any unauthorised personnel remaining on site?

4. Emergency Response Resources

4.1 Role Cards

Role cards act as prompts and are used as an aid in the event of an emergency. A set of role cards to support this plan are provided in section 6.

4.2 Emergency Action Guides

Emergency Action Guides have been developed and outline typical responses for specific types of emergencies. A set of Emergency Action Guides to support this plan are provided in section D.

4.3 Chemical Response Guidance

All chemicals stored and used on site are to be managed in accordance with the corresponding Safety Data Sheets. Hard copies of Safety Data Sheets are stored in the warehouse with electronic copies available via the Chemwatch website.

Other procedures available in relation to chemicals management include:

- Chemical Management - MSTD11-PC002
- Managing Risks with Chemicals in Workplaces - MSTD09-PC005
- Emergency Response Procedure - Chemical Management MSTD13-PC005

4.4 Plant and Pipeline Shutdown / Isolation

In the event of a loss of containment event, emergency shutdown devices (ESDs) are to be used, however if isolation identification is not clear then the SERT members can access Piping and Instrument Diagrams (P&IDs) on M: files. In these instances, the isolation should be undertaken, and any associated documentation should be completed post event and prior to restart. In the event of a power outage there are master sets of PID's in the control room, supervisor's office & ESS control room.

4.5 Emergency Equipment

Emergency equipment is provided at Mereenie in accordance with the site's hazards and possible emergency situations are identified in the site Risk Register. The following equipment is positioned in appropriate locations, clearly identified, and maintained.

- Portable radios
- Satellite Phone
- Portable gas detectors
- First aid equipment (Include Defibrillator)
- On site ambulance
- Fire extinguishers
- Confined space rescue equipment
- Working at heights rescue equipment
- Self-contained breathing apparatus
- Oil and chemical spill kits

- Safety showers / eyewash stations.

Where applicable, sites are to be equipped with fixed fire and gas detection and fire-fighting equipment in accordance with the relevant fire codes and legislation.

4.6 Medical Support

Medical emergencies fall into three categories:

1. Minor medical emergencies (dealt with on-site by a trained first aider)
2. Medical emergencies or injuries requiring more than first aid (dealt with under the guidance of an emergency expert)
3. Critical or life-threatening medical emergencies which require immediate evacuation of the patient.

The site is supported with a 24/7 dial-in medical service with an on-call doctor for routine medical support or emergency medical advice. In addition, the Kings Canyon medical facility can provide additional support.

Medical advice and support will be provided by:

- on-site first aid trained personnel (available on all shifts)
- primary emergency advice:
 - RFDS 24-hour emergency operations center
 - MRACC (Royal Flying Doctors) Telehealth Doctor service
- secondary Emergency Advice:
 - Alice Springs Hospital
 - Kings Canyon clinic.

The Royal Flying Doctor Service is also available to support emergencies.

If medical assistance or a Medivac is required, the initial medical provider will seek advice from the Air Medical Services Doctor or the Royal Flying Doctor Service Call Centre who will coordinate the ongoing actions.

The SERT leader, in consultation with a medical provider, has the authority to initiate a Medivac.

The initial medical provider will consult with the doctor(s) to determine the appropriate level of transport, resources and medical assistance required for a Medivac flight.

Patients will be transferred to the nearest care facility as determined by the initial medical provider in consultation with the Royal Flying Doctor Service call center or the doctor associated with the treatment.

4.7 Aviation Resources

Sites may have the capacity to facilitate both Helicopters (rotary) and Planes (fixed wing) in the event of an emergency, however, the preferred option is fixed wing aircraft.

Further details regarding the airstrip / helipad and its safety protocols are outlined in section E.

4.8 Site Emergency Response Room

The site conference room has been established for use if the SERT is activated. This room will be the coordination center and communications hub. All SERT members are to meet there to manage and support operations in the event of an emergency. The room is equipped with:

Plans	<ul style="list-style-type: none"> ▪ Site Emergency Response Plan – Mereenie ▪ Emergency Management Plan
Communication	<ul style="list-style-type: none"> ▪ Telephones – landline and satellite ▪ Digital site Radios ▪ Video/conference calling facilities ▪ Access to Wi-Fi/internet
General	<ul style="list-style-type: none"> ▪ Basic stationery – pens, note pads ▪ Whiteboard and markers ▪ Emergency information board ▪ Site maps indicate location of emergency equipment and muster points

The on-site emergency response room will be maintained in a 'ready-for-use' state and is the responsibility of the Administration and Logistics Coordinator. The room will be regularly inspected, and equipment tested every time an emergency exercise is undertaken (approximately every 6 weeks).

4.9 Communication

On-site communications during emergency situations is via site digital radios on the:

- Main field channel No. 1; or
- Emergency channel No. 2.

Personnel are to use the radio on the "field" channel to transmit information. Radio communication should be kept to a minimum, so the channel is available for use when required. The PIC will determine when to switch to channel 2 (emergency channel) if at all.

The designated phone in the emergency response room should be used to communicate with the EMT and other sites. Emergency contacts are detailed in section 6. There are two phones in the emergency response room, we should decide which one is to be utilised in an emergency.

4.10 Emergency Management Team / Plan

Any emergencies with the potential for critical or extreme outcomes are to be managed in conjunction with the EMT. In an emergency, the objectives of the EMT are to:

- provide support and logistics to the site
- ensure a coordinated response from all parties involved e.g. the state emergency services
- Monitor the site personnel and their ability to manage the situation, especially if there is a long duration.
- control and minimise impacts/losses (human, financial, resource, reputation) related to an escalating incident and to protect those with a vested interest in CTP
- develop an effective communication strategy for all stakeholders e.g. insurers, government and the media
- recover and resume CTP operations.

5. Stakeholder Management and Communications

In an emergency, it is important that all communication remains open, honest, timely and accurate.

External Communication

Any communication with external parties (not related to the immediate emergency response) is to be handled centrally via the EMT leader.

Internal Communication

The SERT leader / coordinator will ensure all relevant personnel are kept up-to-date and will provide regular updates to the EMT leader.

Managing Enquiries

If any person receives a call from an external party e.g. journalist, community member, government official, etc., they must inform the caller that they are not an authorised spokesperson and are not in a position to comment, however, will organise for someone to call them back. A message should be logged capturing the follow information.

- callers name
- organisation / affiliation
- contact details
- who they want to speak with
- what the message / query is about

Social Media

Nothing should be posted on any social media platforms. Centrals disciplinary process will be followed for any anyone identified as having posted any incident related content.

6. Post Emergency Review

At the earliest possible time following the emergency, the General Manager Operations or delegate is to organise and facilitate a post-emergency review to identify any lessons learnt (positive and negative).

If appropriate, any improvements or amendments should be considered and, if necessary, a change management process be undertaken to update the framework and any supporting documents, followed by the appropriate training.

7. Emergency Contacts

7.1 Central Emergency Contacts

Name	Position	Contact Details
[REDACTED]	General Manager Operations/Duty Manager	[REDACTED]
[REDACTED]	Engineering Manager/Duty Manager	[REDACTED]
[REDACTED]	Chief Operating Officer	[REDACTED]
[REDACTED]	Risk and HSE Manager	[REDACTED]
[REDACTED]	Health & Safety Specialist	[REDACTED]
Brisbane emergency phone	To be used whilst emergencies are in progress	07 3181 3860

7.2 Site Contact Information

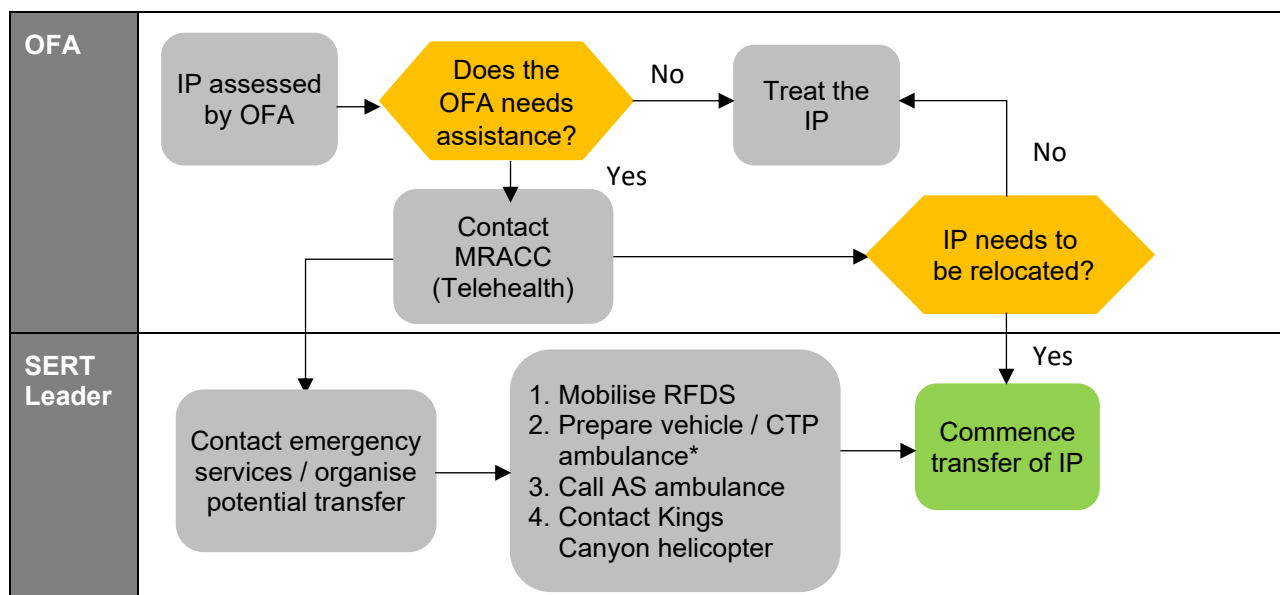
Role / Detail	Contact Details	
Production Supervisor	██████████ ██████████ ██████████	██████████ ██████████ ██████████
Logistics and Administration Coordinators	██████████	████████████████████
Kitchen / Ambulance (Satellite Phone)	██████████	
Response Room (Satellite Phone)	██████████	
Emergency Alert Number	1300 134 406	ISS First Response (24/7)
Mereenie Emergency Number	08 8954 3822	

7.3 Emergency Services

Decision tree

The assessment and response to a medical emergency is outlined in Figure 4 below. The on-site OFA is responsible for the decision to escalate and seek professional guidance. The SERT Lead is accountable for the early engagement with emergency services e.g. RFDS, Alice Springs Hospital, etc.

Figure 4



*Where the CTP ambulance is to be used contact AS ambulance and plan to meet halfway.

Service		Contact Details	Response Time
Police / Fire / Ambulance (Emergency)		000	
Medical	Remote Health & Royal Flying Doctors Service ¹	08 89517840 / 08 8951 7777 (24/7)	Xhrs to mobilise and be at Mereenie
	RFDS Port Augusta Communications centre	1800 630 784 for plane's ETA's	
	MRACC (Royal Flying Doctors)	1800 1MRACC (1800 167 222)	Immediate
	Alice Springs Hospital (24/7)	08 8951 7777	3hrs 30 min drive
	Kings Canyon Medical Clinic ²	08 8956 7807	40 min drive
	St John Ambulance - Alice Springs Office	08 8959 6600	Potential to meet IP halfway to Mereenie
	Mall Medical Clinic - Alice Springs	08 8952 2744	
Police	Police - Alice Springs Station	08 8951 8822	
	Police (non-emergency)	131 444	
Fire	Fire and Rescue (non-emergency)	08 8999 3473	
Emergency	Emergency Services (flood, storms, etc)	132 500	

¹ Doctor on call for all Medical Evacuations via Alice Springs

² Clinic can be dispatched by 000 if required

In the event of an emergency, the SERT leader is authorised to contact the above, however, **any contact with government, regulatory bodies, etc., must be undertaken centrally by the Brisbane based EMT leader.**

8. Role Cards

8.1 First Responder

Role Card



Section 1 – Responsibilities	
In the event of an incident, please remain calm and be prepared to assist where possible (depending on your experience and competency). Please provide as much information as possible to the production supervisor.	
Immediate Actions	Complete
<ul style="list-style-type: none"> ▪ Raise the alarm ▪ Check for DANGER - do not put yourself at risk <ul style="list-style-type: none"> - Is the scene safe? ▪ Implement appropriate actions to prevent or contain the situation, if possible ▪ Provide assistance e.g. assess for life threatening injuries <ul style="list-style-type: none"> - Are they responsive? - Are they breathing? - Any bleeding? ▪ If safe and appropriate to do so, shut down any equipment ▪ Evacuate or leave the scene, if warranted ▪ Notify the production supervisor providing as much detail as possible e.g. <ul style="list-style-type: none"> - Location - Incident details - Number of casualties and their condition 	
During an Emergency	Complete
<ul style="list-style-type: none"> ▪ Follow the production supervisor/SERT leader's instructions 	
Post Incident	Complete
<ul style="list-style-type: none"> ▪ Participate in the SERT post-emergency review ▪ Propose changes to the Site Emergency Response plan and any procedures, as a result of the incident 	

8.2 Site Emergency Response Team leader (SERTL)

Role Card



Section 1 – Responsibilities	
<p>The SERT leader is responsible for:</p> <ul style="list-style-type: none"> ▪ activation and stand-down of the SERT ▪ notifying the EMT leader upon activation ▪ overall management of the emergency response including recovery. <p>The SERT leader is the final decision maker in relation to analysis, option development, selection and execution of the incident response</p>	
Immediate Actions	Complete

<ul style="list-style-type: none"> ▪ Review the first responder's brief ▪ Take immediate action, if necessary ▪ Work through the SERT leader activation checklist (Section 2) ▪ Using your knowledge and experience and the Emergency Assessment Matrix (Section 3), determine if the SERT should be activated 		
Activate	Not Activate	
<ul style="list-style-type: none"> ▪ Determine which SERT members (Section 4) are required ▪ Engage SERT coordinator to contact SERT members ▪ Notify the EMT leader of activation and provide a situation update ▪ Proceed to the designated site emergency response room ▪ Conduct an initial team brief using information from section 2 ▪ Confirm the SERT member roles and activities 	<ul style="list-style-type: none"> ▪ Await updates from operations personnel and reassess the incident as required 	
During an Emergency		Complete
<ul style="list-style-type: none"> ▪ Authorise any immediate assistance and specialist support (internal or external) ▪ Consolidate assumptions and identify the worst case and most likely impacts ▪ Decide on the priority objectives. ▪ Manage and lead the SERT to ensure the efficient and effective resolution of the emergency, ensuring the impact on people, assets, environment, value and reputation is minimised ▪ Facilitate open communication and ensure regular updates are provided ▪ Ensure the General Manager Operations is regularly updated on the incident ▪ Approve necessary expenses related to the management of the emergency ▪ Facilitate and support the implementation of any business continuity plans by the respective teams ▪ Ensure an accurate record is kept of all SERT actions and decisions ▪ Declare the emergency is over and stand-down teams ▪ Coordinate transition to recovery stage ▪ Decide on the team structure to manage the recovery process 		
Post Incident		Complete
<ul style="list-style-type: none"> ▪ Determine the level of investigation required and initiate the process – GM ops ▪ Debrief the SERT ▪ Conduct a post-emergency review – GM ops. ▪ Propose changes to the site emergency response framework and any procedures, as a result of the incident. – ALL 		

Section 2 – Activation checklist			
Date		Time	
Name			
Incident Description			
What happened?			
Where did it happen?			
When did it happen?			
How did it happen?			
Is everybody accounted for?			
Are there any casualties?			
How have you been notified and how accurate is the information?			
Incident Status			
Is the incident contained or escalating?			
What is potentially at risk?			
What are your objectives?			
What actions are being taken?			
Who is taking action?			
What resources / equipment / manpower is being used?			
Initial incident assessment			
What are the likely impacts on health, safety, environment and/or community?			
What are the likely community, government, media or reputational impact?			
What is the operational impact (short, medium or long term)?			
How effective is the response?			
What support is needed?			
What support does the SERT need from the EMT (in the longer term)?			
Follow up			
Exchange / confirm contact details for first responder			
Decision			
Based on the information provided, assistance requested and your experience, consider the actual or potential impacts and determine whether to activate the SERT using the 'Emergency Assessment Matrix (see section 3).			
Yes		No	
Rationale			

Section 3 – Assessment and Escalation Matrix		
<p>The SERT leader will:</p> <ul style="list-style-type: none"> use this guide to quickly assess actual or potential incident consequences and notification thresholds. Note that you may choose to activate / notify at levels lower than those detailed; Contact the EMT leader if the SERT is activated; 		
	Site Emergency Response Team	Emergency Management Team
Activation	The SERT may activate if any of the criteria below is met	The EMT may activate if any of the below criteria is met
Escalation / Notification	If this team is activated, the SERT leader notifies and provides a summary to the EMT leader	If the EMT is activated, the EMT leader contacts EMT members and notifies the CEO
Risk Impact	Minor to Serious	Critical or Extreme
Injury / Illness to workers	Injury or ill health requiring medical treatment	Fatality or Injury/ill health requiring extensive medical treatment (e.g. amputation, spinal injuries, etc.)
Loss of workforce capacity (pandemic or industrial action)	Loss of key staff impacting operational output or threat of industrial action	Operations compromised due to staff being unavailable
Personnel and asset security	Non-specific threat to CTP staff e.g. protests, suspicious packages, bomb threat, etc.	Community protest action e.g. threats to CTP staff, bomb threat, suspicious packages, security incidents
Environment and / or Community	Localised and/or short-term environmental and/or community incident/emergency	Extensive environmental or community incident such as significant contamination, offsite pollution or fatality
Natural Disaster	Predicted or localised damage to facilities/assets e.g. storms, external fires, flooding	Storm, fire, flood damage. Forecast natural disaster (widespread). Multiple locations impacted
Fire and Explosion	Small localised fires or explosions extinguishable by site resources	Uncontrolled fire/explosion requiring external emergency support
Property Damage	Serious damage to CTP assets/third party property	Major damage to CTP assets/third party property
Loss of Containment (LOC) – chemical spill, solid, vapor, liquid.	Major accident event, or event requiring HAZMAT response, or non-hazardous substance spill that meets response activating SERP scenario. Any spill to water	Uncontrolled release unable to be isolated and contained within an hour after activating SERT scenario
Laws, regulations, civil actions	Breach of regulations regarding investigations and reporting to authorities. Possible prosecution/fine	Litigation/prosecution by regulator which could lead to temporary plant closure
Stakeholders / Media	Local media coverage. Health and/or safety concerns to local community	State/national or social media with potential to impact performance of site/team operations
Facility, Plant or System failure / Cyber attack	Significant breach/IT incident affecting one site/location. Loss of access to single location <4hrs	Significant breach/IT incident affecting more than one site/location. Loss of access to single location for >4hrs
Customer interruption / Supply disruptions	Customer service interruption up to 1 day. Product shortfall at facility or supply point >10 TJ per day	Potential customer service interruption up to 3 days. Supply shortage impacting major customer >25TJ per day
Third party failure (inc. contractor, supplier or partner)	Restricted impact which can be rectified in the normal course of business. e.g. haulage contract	Supply or services potentially disrupted with threat of serious impacts e.g. customers or critical functions
Financial	Cash flow: <\$1m	Cash flow: >\$1m

Section 4 – SERT Member Details		
Role	Name	Engaged
Mandatory		
SERT leader		
Coordinator		
Log keeper		
SERT Members		
First aid		
Team member		
Team member		
Team member		
Team member		
Team member		

8.3 Site Emergency Response Team Coordinator



Role Card

Section 1 – Responsibilities

The SERT coordinator's primary role is to support the SERT leader. The function of the coordinator is to:

- manage and coordinate staff while providing quality control and coordination of the SERT's planning process
- ensure that staff have the information, guidance and facilities required to fulfil their roles
- manage the SERT's time, coordinate briefings, and manage the site emergency response room
- align the planning of the functional areas with the direction and intent of the SERT leader
- assume the role of SERT leader should the SERT leader be unavailable
- The SERT coordinator will be the primary contact p for all communications

Immediate Actions	Complete
<ul style="list-style-type: none"> ▪ Respond to the activation ▪ Contact SERT members ▪ Confirm the arrival of all SERT members ▪ Facilitate the initial team brief to the SERT 	
During an Emergency	Complete
<ul style="list-style-type: none"> ▪ Record and monitor all response actions (Section 2) ▪ Establish communications ▪ Provide regular situation updates to the SERT leader ▪ Implement routines and procedures in the site emergency response room including security of information, control of access, and equipment ▪ Coordinate and synchronise staff in the site emergency response room ▪ Ensure an accurate record is kept of all SERT actions and decisions ▪ Program and facilitate SERT update briefs ▪ Coordinate SERT requests for assistance ▪ Coordinate the regular update of the SERT ▪ Monitor and ensure that activities are in accordance with SERT objectives ▪ Supervise the completion of an accurate SERT log ▪ Be prepared to act as the SERT leader if required 	
Post Incident	Complete
<ul style="list-style-type: none"> ▪ Support recovery operations, as required ▪ Ensure SERT members attend the debriefing ▪ Coordinate and participate in the post-emergency review ▪ Carry-out all relevant SERT coordinator actions identified in the post-emergency review ▪ Propose changes to the site emergency response framework and any procedures, as a result of the incident. 	

Section 2 – Site Response Activity / Event Log

Time	Action	Owner	Due	Status

8.4 Emergency Response Team Member



Role Card

Section 1 – Responsibilities	
The SERT member's primary role is to support the SERT leader	
Immediate Actions	Complete
<ul style="list-style-type: none"> Respond to the activation Proceed to muster point and respond to the situation as directed by the SERT leader Attend the initial brief 	
During an Emergency	Complete
<ul style="list-style-type: none"> If instructed & safe to do so, participate in incident response, which could include: <ul style="list-style-type: none"> rescuing personnel if there is no danger extinguishing small fires around the plant using a range of extinguishers using a fire blanket to extinguish small fires provide basic first aid containing minor spills If required (e.g. after hours when admin staff re not on site), undertake the role and responsibility of: <ul style="list-style-type: none"> log keeper – documenting incoming/outgoing information and maintaining incident log sheet coordinator – providing support to the SERT leader and coordinating movement of personnel and delivery of equipment resources and liaison with the response team coordinate any resources/assistance required by the SERT or EMT Consider any secondary impacts as a result of the incident Assist in the development of the SERT's responses, objectives and priorities Cooperate with emergency services Prepare for the stand-down of the SERT and recovery of site 	
Post Incident	Complete
<ul style="list-style-type: none"> Provide ongoing advice to the recovery operations, as required Participate in the SERT post-emergency review Propose changes to the site emergency response framework and any procedures, as a result of the incident 	

8.5 Emergency Response First Aid



Role Card

Section 1 – Responsibilities	
Assess and provide first aid assistance to injured people	
Immediate Actions	Complete
<ul style="list-style-type: none"> Respond to the activation Proceed to muster point and respond to the situation as directed by the SERT leader Attend the initial briefing and consider the incident 	
During an Emergency	Complete
<ul style="list-style-type: none"> Perform triage on injured personnel Assess medical response Direct/manage medical personnel and supplies Activate external resources, if needed Consider any secondary impacts as a result of the incident Assist in the development of the SERT's response, objectives and priorities Cooperate with emergency services Prepare for stand-down and recovery of SERT 	
Post Incident	Complete
<ul style="list-style-type: none"> Be prepared to provide ongoing advice to the recovery operations, as required Participate in the SERT post-emergency review Propose changes to the site emergency response framework and any procedures as a result of the incident 	

9. Emergency Event Guides

9.1 Emergency Event Guide 1 – Vehicle Accident

Incident	
Nature of the incident: <input type="checkbox"/> Vehicle/Vehicle Collision <input type="checkbox"/> Vehicle/Structure Collision <input type="checkbox"/> Vehicle Roll Over <input type="checkbox"/> Pedestrian Hit/Run Over <input type="checkbox"/> Other	
Response Guide	
Apply Emergency Action Guide and prepare for escalation	
<ul style="list-style-type: none"> • Call for assistance as soon as possible • Assess and ensure the scene is safe – withdraw personnel from danger (if required) • Prioritise casualties – undertake a primary assessment of any casualties • Mobilise SERT, if additional resources are needed • Mobilise competent first aider to treat injured persons (if required) at scene or first-aid station • Mobilise the following if necessary - electrician if there is an electrical risk, equipment to stabilise vehicle, fire control equipment 	
Additional Response – as required	
Ambulance – Fire – Police (Dial 000)	
Call a medical facility for assistance/guidance	
Arrange escort for external emergency support / back-up	
Notify General Manager Operations	
What to Do	
Consider the following, to minimise danger : 1. Other traffic: - use hazard lights on vehicles to warn oncoming traffic - switch headings on if at night - ask bystander/s to extend the warning perimeter to at least 100mts away to warn & control oncoming traffic - Battery disconnect 2. Fire: - switch off the vehicle's motor and, for diesel vehicles, shut off any emergency fuel switches - stop people from smoking nearby - if there is a fire under the bonnet, and you have a fire extinguisher and it safe to do so, release the bonnet catch (but don't open fully) and aim the extinguisher through the gap 3. Fumes: - stay clear of fumes if petrol/diesel is leaking and ensure there are no naked flames or people smoking nearby 4. Damaged vehicles: - if airbags have not been activated, stay clear of the steering wheel and front dashboard - if not in gear, apply the handbrake or put the vehicle in gear 5. Spilt fuel or chemicals: - if the accident involves a vehicle carrying hazardous material, stay clear. Take note of the signs indicating what is being carried e.g. type of sign and code number and call 000 for advice - if there are clouds of vapour, spilt liquids, bottles, gas cylinders or unusual odors, avoid contact with these substances and have everyone stay upwind if possible, to avoid fumes 6. Fallen or damaged powerlines - remain at least 6m from any fallen power lines and don't attempt to move the cables - do not go near a vehicle if it is being touched by electrical cables advise the patient not to move and wait for emergency services to arrive	
What to Do	
Prioritise Casualties 1. Once safe to do so, assess casualties as follows: (Using the vehicle medical booklet to assist) - Are they conscious? - Are their airways clear and open? - Are they breathing? - Are they bleeding?	

Injuries and Ongoing Management

- Common injury types:
 - airway blockages
 - head injuries
 - chest injuries
 - spinal injuries
- 1. Unless necessary (for example if the vehicle could explode), do not move a patient until help arrives as it could lead to further injury;
- 2. Continue to monitor their breathing as this can rapidly deteriorate. Be ready to perform CPR should this occur - **Do not use mouth-to-mouth method if victim ingested or inhaled any substance;**
- 3. Record observations (if possible) until help arrives e.g. breathing, pulse, skin colour and temperature. Any changes could indicate a serious change in their condition;
- 4. If the patient is conscious, continue to reassure them. Let them know that help is on the way.

NOTICE

- **Try to remain calm as anxiety can spread quickly.**

Post Event Actions

- Clean up any oil/fuel spills, as per site environmental procedures;
- Monitor for possible fire;
- Secure the scene for incident investigation - do not move anything unless a person's life depends upon it;
- Photograph & preserve the scene.

9.2 Emergency Event Guide 2 – Transporting Incident – Rollover/Injuries

Incident	
Nature of the incident:	
<input type="checkbox"/> Heavy Haulage / Road transport <input type="checkbox"/> Bulk vessel (transported) <input type="checkbox"/> Road Tanker / Tanker truck <input type="checkbox"/> Other	
Response Guide	
Apply Emergency Action Guide and prepare for escalation	
<ul style="list-style-type: none"> ▪ Call for assistance as soon as possible; ▪ Assess and cautiously approach from upwind - ensure the scene is safe – withdraw personnel from danger (if required); ▪ Mobilise the SERT if additional resources are needed – carry suitable volumes of fresh water; ▪ Mobilise competent first-aider(s) to treat injured persons (if required) at scene or first-aid station; ▪ Assist external personnel with notifications and calls for assistance. 	
Additional Response – as required	
Ambulance – Fire – Police (Dial 000)	
Arrange escort for external back-up	
Notify General Manager Operations	
What to Do	
<ol style="list-style-type: none"> 1. Interacting personnel enter after considering their Safety needs and wear appropriate PPE; 2. Attempt to Identify the spill - refer to the HAZCHEM code, Truck Placarding, Driver or SDS for methods of control / management; 3. Alert Management / SES / Police or 000 of situation ASAP, note location, HAZCHEM concerned, areas of impact; 4. Ensure all personnel are safe and clear of area -Stay upwind and clear of any Vapour, Fumes, Smoke and Spills. 5. Use safety related equipment as required, to safely extract personnel if in immediate danger; 6. Extricate personnel and team to a safe distance and clear of fumes (Upwind); 7. Consider decontamination of personnel – clothing / footwear / equipment – water to dilute substance; 8. Divert or stop traffic (do not start vehicles if a low flash-point product has been split) – if tanker truck is involved in a fire, ISOLATE for 800 metres (1/2 mile) in all directions; 9. If Spill fluid loss evident, undertake measures to prevent spread of spilled product – if possible - (i.e. block drains, dam ditches, boom watercourses, close water intakes); 10. Isolate spill or leak area for at least 100 metres (330 feet) in all directions; 11. Remove all sources of ignition to reduce the potential fire hazard; 12. Stop further leakage - close valves, attempt to stop leaks, if safe to do so; 13. Never attempt to perform a rescue without support or adequate forethought; 14. Consider all details as described in Event Guide 1. <p>Refer to: MSTD13-PL002 ERP Spill response procedure for assistance with methods of containment or prompts during the containment process (if fluid) or the Australian-Emergency-Response-Guide-Book-2018 in M-Files.</p>	
Post Event Actions	
<ul style="list-style-type: none"> ▪ Secure the scene for incident investigation; ▪ Team debrief / Mental anguish and concerns. 	

9.3 Emergency Event Guide 3 – Security Incident

Incident	
Nature of the incident: <input type="checkbox"/> Unauthorised Access <input type="checkbox"/> Threat of Violence <input type="checkbox"/> Assault <input type="checkbox"/> Missing Person(s) <input type="checkbox"/> Suspicious Package <input type="checkbox"/> Bomb Threat <input type="checkbox"/> Other	
Response Guide	
Apply Emergency Action Guide and prepare for escalation	
<ul style="list-style-type: none"> ▪ Call for assistance as soon as possible; ▪ Assess and ensure the site is safe – withdraw personnel from danger (if required); ▪ Mobilise the SERT if additional resources are needed. 	
Additional Response – as required	
Ambulance – Police (Dial 000)	
Arrange escort for external back-up	
Notify General Manager Operations	
What to Do	
Bomb Threat / Suspicious Package	
NOTICE	
<ul style="list-style-type: none"> ▪ Under no circumstances should any person attempt to move or disarm a bomb or open a suspicious package ▪ Bomb threats create a specific type of emergency and require a swift and positive response. If a bomb threat is received, by whatever means, ALL action taken will be under the guidance and direction of the SERT leader ▪ If the threat is received via phone, do not hang up as the call could possibly be traced 	
Telephone - Try to obtain as much information as possible from the caller. When did you put it there? Where did you put it? What does it look like? What kind of bomb is it? What will make it explode? - Try to assess if the caller is male or female? Do they have an accent? Are there any distinctive background noises? 1. Remain calm and treat the threat seriously 2. Activate the evacuation alarm, consider ESD of the plant and, if necessary, de-pressure and isolate affected equipment 3. Complete the bomb/extortion threat report 4. Call the police on 000 5. Make a decision to evacuate personnel 6. Devise and implement (with assistance of police) a search plan 7. Devise and implement an evacuation plan 8. Assess the long-term and short-term threats 9. Make a decision to resume normal activities	Post - Do not open a letter or package if it looks suspicious.

Threat of Violence/Assault

NOTICE

- Avoid directly confronting a person who is threatening violence
 - If the violence escalates, do not try to deal with the violent person by yourself – seek help
1. Allow the person to talk
 - Try not to interrupt. If you do, then do so in a calm, gentle and assured manner.
 2. Observe but do not turn your back on the person
 - Avoid direct eye contact
 - Do not walk in front of the person and remain far enough away to avoid being assaulted
 - Note physiological changes in the person such as reddening of the face, clenching fists, grimaces, voice becoming louder, heavy breathing, narrowing of their gaze, and so forth.
 3. Diffuse the situation
 - Put the person at ease, empathise with their situation/concerns and let them know you understand. Try to identify their grievances and negotiate a peaceful solution
 4. Contact human resources for support

Unauthorised Access to Site

1. Initiate search for any unauthorised personnel
 - Identify where they were last seen and what they were doing
2. Secure people, facilities and vehicles
 - Activate general alarm and muster, if necessary
 - Consider shutting down safety critical systems if they cannot be maintained safely if unattended
3. If located:
 - Approach the individual and clearly communicate where they are and the area's restrictions
 - Try to find out why they are on site (follow the guidelines provided)
4. Call the police on 000 or escort the individual off site

Missing Person

1. Obtain information on the time and location of their last sighting
 - Use trackers, work information, last known sighting
2. Try and establish communication via phone, radio or tracker
3. Initiate search
4. Dispatch SERT member to last known location, plan to drive the route taken by missing personnel. Ensure contact is maintained with the SERT member undertaking the search
5. Determine any requirements for outside assistance or additional support and notify authorities, if necessary
6. If the police are required for a search and rescue, allow them to take control of the situation
7. EMT leader to communicate with next of kin

Post Event Actions

- Secure the scene for incident investigation
- Ensure that the termination of the emergency is communicated
- Follow up with any witnesses/bystanders to ensure they are ok

9.4 Emergency Event Guide 4 – Bushfire / Flood

Incident	
Nature of the incident:	
<input type="checkbox"/> Bushfire	<input type="checkbox"/> Storm <input type="checkbox"/> Flood <input type="checkbox"/> Other
Response Guide	
Apply Emergency Action Guide and prepare for escalation	
<ul style="list-style-type: none"> ▪ Call for assistance as soon as possible; ▪ Assess and ensure the scene is safe – withdraw personnel from danger (if required); ▪ Mobilise the SERT if additional resources are needed; ▪ Mobilise competent first aider to treat injured persons (if required) at scene or first-aid station. 	
Additional Response – as required	
Ambulance – Fire – Police (Dial 000)	
Arrange escort for external back-up	
Notify General Manager Operations	
What to Do	
Bushfire	
<ol style="list-style-type: none"> 1. Obtain information about the fire including location, wind direction, strength, size and type of fire, and if there are any injured/missing personnel 2. Get weather information and pay attention to the wind direction, check local fire info at: www.firenorth.org.au/nafi3/ 3. Consider checking fire breaks, if safe to do so 4. Initiate contact with emergency services and neighbours in surrounding properties 5. Activate alarms and muster, as required 	
NOTICE	
<ul style="list-style-type: none"> ▪ The control of a bushfire rests with the Rural Fire Brigade until the fire reaches the site boundaries at which time management can then take control ▪ Should fire breaks be crossed, the SERT leader shall review what plant must be shut down or additional fire breaks be prepared ▪ During a fire, to ensure the safety of personnel, the environment and equipment, consideration must be given to shutting the plant down. 	
Adverse Weather	
<ol style="list-style-type: none"> 1. Obtain information about the emergency including location, size and extent of event, potential for damage, flooding or storm, and if personnel have been injured or are missing 2. Regularly check weather information and pay attention to warnings from: http://www.bom.gov.au/nt/ 3. Road condition reports from: https://roadreport.nt.gov.au/road-map 4. Initiate contact with emergency services, alert road transport companies used by CTP of current conditions. 5. Ensure that no critical activity is started which cannot be completed before the event due to possible evacuation 6. If adequate warning, prepare site by removing any items which may become loose during a storm, flood, etc. 7. Consider whether the plant should be shut down or develop protocols for shutdown 8. Consider if it is safe for people to remain on-site and if so – where. 9. Activate alarms and muster, as required 	
Post Event Actions	
<ul style="list-style-type: none"> ▪ Secure the scene for incident investigation 	

9.5 Emergency Event Guide 5 – Electric Shock

Incident					
Nature of the incident:					
<input type="checkbox"/> Electric Shock	<input type="checkbox"/> Flash Burn Injury				
<input type="checkbox"/> Unconscious	<input type="checkbox"/> Respiratory Condition				
	<input type="checkbox"/> Vehicle Roll Over				
	<input type="checkbox"/> Other				
Response Guide					
Apply Emergency Action Guide and prepare for escalation					
<ul style="list-style-type: none"> Call for assistance as soon as possible Assess and ensure the scene is safe – withdraw personnel from danger (if required) Mobilise the SERT if additional resources are needed Mobilise electrician to arrange isolations (if required) Mobilise competent first-aider to treat injured persons (if required) at scene or first-aid station Call Ambulance – Dial 000 Arrange clean potable water for initial treatment of flash burns 					
Additional Response – as required					
Call a medical facility for assistance/guidance					
Arrange escort for external back-up					
Notify General Manager Operations					
What to Do					
Treatment for Electric Shock					
<ol style="list-style-type: none"> Check for danger to yourself, bystanders and the patient Before trying to assist the patient, switch off or isolate power If the patient is in contact with high voltage lines, do not approach. Wait until power is disconnected by an authorised electrician Reassure and calm the patient and do not leave them alone <table border="0"> <tr> <td>If patient is unconscious</td> <td>If patient is conscious</td> </tr> <tr> <td>- Check for signs of life: if unconscious, follow DRSABCD (Danger, Response, send for help, Airway, Breathing, CPR, Defibrillation)</td> <td>- Place them in a comfortable position propped up against a wall to avoid further injury and/or breathing difficulties</td> </tr> </table> Apply cool running water to the burnt area for 20 minutes If possible, remove jewellery and clothing from burnt areas Cover the burnt area with a loose and light non-stick dressing, preferably clean, dry, non-fluffy material such as plastic cling film Seek professional medical assistance 		If patient is unconscious	If patient is conscious	- Check for signs of life: if unconscious, follow DRSABCD (Danger, Response, send for help, Airway, Breathing, CPR, Defibrillation)	- Place them in a comfortable position propped up against a wall to avoid further injury and/or breathing difficulties
If patient is unconscious	If patient is conscious				
- Check for signs of life: if unconscious, follow DRSABCD (Danger, Response, send for help, Airway, Breathing, CPR, Defibrillation)	- Place them in a comfortable position propped up against a wall to avoid further injury and/or breathing difficulties				
NOTICE					
<ul style="list-style-type: none"> In the event of any electrical shock, the patient should be transported by ambulance or company vehicle for medical attention 					
Post Event Actions					
<ul style="list-style-type: none"> Secure the scene for incident investigation 					

9.6 Emergency Event Guide 6 – Fire / Explosion

Incident	
Nature of the incident:	
<input type="checkbox"/> Building	<input type="checkbox"/> Plant and Equipment
<input type="checkbox"/> Electrical	<input type="checkbox"/> Chemical
	<input type="checkbox"/> Bulk Fuel/Oil
	<input type="checkbox"/> Other
Response Guide	
Apply Emergency Action Guide and prepare for escalation	
<ul style="list-style-type: none"> Call for assistance as soon as possible; Assess and ensure the scene is safe – withdraw personnel from danger (if required); Shut down plant and systems that may be affected by the fire or provide first response fire-fighting, if safe to do so; Mobilise the SERT if additional resources are needed; Mobilise competent first-aider(s) to treat injured persons (if required) at scene or first-aid station; Establish exclusion zones if required (800 mtrs – 1600 mtrs – as required); Arrange isolation of energy sources; Assess work permit (where applicable) at job site and refer to emergency plan; Consult signage/labelling to identify hazardous materials and any response requirements. 	
Additional Response – as required	
Ambulance – Fire – Police (Dial 000)	
Arrange escort for external back-up	
Notify General Manager Operations	
What to Do	
Treatment Plant	
NOTICE	
<p>NOTE: Major plant fires will not be fought using firefighting equipment, plant ESD will be used.</p> <ul style="list-style-type: none"> Only provide basic firefighting on small fires (wastepaper bin size), if close enough or safe to do so. <ol style="list-style-type: none"> Shut down and depressurise plant and systems that may be affected by the fire If possible, isolate all energy sources and keep ignition sources clear of the hazardous area Evacuate to the muster point, ensuring it is at a safe distance (up to 800 mts) and upwind and conduct head count of all POB. Notify the EMT leader <ul style="list-style-type: none"> discuss and determine if any additional assistance is required Initiate search and rescue for the missing personnel, if and when safe to do so, and only after confirmation with the SERT leader 	
Tanks	
<ol style="list-style-type: none"> Stop pumps, close valves, if safe to do so, and activate alarm Don't go into bunded areas or onto tanks, or areas where escape may be limited Activate foam generators if safe to do so – SERTL. (<i>SOP number</i> for site:). Do not attempt to remove vehicles/road tankers unless action approved by SERTL 	
Post Event Actions	
<ul style="list-style-type: none"> Secure the scene for incident investigation 	

9.7 Emergency Event Guide 7 – Confined Space

Incident	
Nature of the incident: <input type="checkbox"/> Person Trapped <input type="checkbox"/> Person Injured <input type="checkbox"/> Fire <input type="checkbox"/> Toxic Atmosphere <input type="checkbox"/> Electrical <input type="checkbox"/> Engulfment <input type="checkbox"/> Other	
Response Guide	
Apply Emergency Action Guide and prepare for escalation	
<ul style="list-style-type: none"> ▪ Call for assistance as soon as possible ▪ Assess and ensure the scene is safe – withdraw all unnecessary personnel from area ▪ Mobilise the SERT if additional resources are needed ▪ Mobilise competent first-aider to treat injured persons (if required) at scene or first-aid station ▪ Mobilise electrician – arrange isolations (if required) ▪ Access Work Permit at job site and refer to the emergency plan 	
Additional Response – as required	
Ambulance – Fire – Police (Dial 000)	
Check gas monitoring results on work permit	
Test atmosphere with monitor before entering the confined space – check wind direction	
Arrange escort for external back-up	
Notify General Manager Operations	
What to Do	
<ol style="list-style-type: none"> 1. If personnel are trapped or unable to escape the CS – STOP all persons from entering the location unless authorised and fitted with appropriate lifesaving equipment / PPE 2. SERT Leader shall ensure that isolations remain intact and that no other oxygen depleting events may unfold during the extraction. 3. The Rescue plan for the task would indicate the requirement to have BA, first aid, a method of extraction and suitable numbers to complete the task – ensuring this is correct and the gear is available, then; 4. SERT Leader shall order the insertion of team members in BA only when prepared, and ready to respond 5. Other team members shall be waiting in support including the SERT first aider with a Satellite phone with access to medical support online (if required) 6. Vehicle (ambulance if possible) is at the ready to remove patient as required 7. Ambulance has oxygen with mask and defibrillator available 8. Spotters shall be used to ensure that all persons remain clear of the situation unless required to assist 	
Post Event Actions	
<ul style="list-style-type: none"> ▪ Secure the scene for incident investigation 	

9.8 Emergency Event Guide 8 – Spill / Release – Road Haulage – Wet Weather

Incident	
Nature of the incident:	
<input type="checkbox"/> Heavy Haulage / Road transport <input type="checkbox"/> Bulk transport vessel <input type="checkbox"/> Bulk Chemical Load <input type="checkbox"/> Other	
Response Guide	
Apply Emergency Action Guide and prepare for escalation	
<ul style="list-style-type: none"> Site responder - Call for assistance as soon as possible If on scene -Assess and cautiously approach from upwind - ensure the scene is safe – withdraw personnel from danger (as required), use available extinguishers, shielding, breathing support; Mobilise the SERT for additional resources as needed – carry ELSA gear, extinguishers, tools, spill gear. Mobilise competent first-aider(s) to treat injured persons (if required) at scene or first-aid station Assist external personnel with notifications and calls for assistance 	
Additional Response – as required	
Ambulance – Fire – Police (Dial 000)	
Arrange escort for external back-up	
Notify General Manager Operations	
What to Do	
<ol style="list-style-type: none"> 1. Ensure vehicles can safely navigate to and from areas of concern – provide alternate routes if possible; 2. Ensure all personnel are safe and clear of area -Stay clear of Vapour, Fumes, Smoke and Spills; 3. Use safety related equipment as required, to safely extract personnel if in immediate danger; 4. Different PPE (Face shields, goggles, heavy gloves, Gum boots) may be required in Wet weather situations to safely perform any task; 5. Extricate personnel and team to a safe distance and clear of potential hazardous fumes (Upwind); 6. Attempt to Identify the spill - refer to the HAZCHEM code, Truck Placarding, Driver or SDS for methods of control / management; 7. Alert Management / SES / Police or 000 of situation ASAP, note location, HAZCHEM concerned, areas of impact; 8. Divert or stop traffic (do not start vehicles if a low flash-point product has been split) if tanker truck or Chemical event is involved in a fire, ISOLATE for 800 metres in all directions; 9. Consider equipment – dependent on location, proximity or safety – what can or should be saved? 10. Interacting personnel enter only when wearing appropriate PPE; 11. If fluid form, attempt to prevent spread of spilled product from the vehicle itself (shut valves – internal / external) if safe to do so, using hazard specific PPE; 12. Remove all sources of ignition to reduce any potential of fire; 13. Notify EMT and advise situation and request assistance if needed – advise SES, Police – update as required; 14. Never attempt to perform a rescue without support or adequate forethought; 	
Refer to: MSTD13-PL002 ERP Spill response procedure for assistance with methods of containment or prompts during the containment process (if fluid) or the <i>Australian-Emergency-Response-Guide-Book-2018</i> in M-Files.	
Post Event Actions	
<ul style="list-style-type: none"> Secure the scene for incident investigation; Team debrief / Mental anguish and concerns. 	

9.9 Emergency Event Guide 9 – Spill / Release Site related

Incident	
Nature of the incident:	
<input type="checkbox"/> Warehousing movements <input type="checkbox"/> Plant Failure <input type="checkbox"/> Bulk site storage vessel <input type="checkbox"/> Evaporation Pond <input type="checkbox"/> Other	
Response Guide	
Apply Emergency Action Guide and prepare for escalation	
<ul style="list-style-type: none"> ▪ Call for assistance as soon as possible; ▪ Assess and cautiously approach from upwind - ensure the scene is safe – withdraw personnel from danger (if required or able); ▪ Mobilise the SERT if additional resources are needed - carry ELSA gear, extinguishers, tools, spill gear; ▪ Mobilise competent first-aiders to treat injured persons (if required) at scene or first-aid station; ▪ Assist external personnel with notifications and calls for assistance. 	
Additional Response – as required	
Ambulance – Fire – Police (Dial 000)	
Arrange escort for external back-up	
Notify General Manager Operations	
What to Do	
<ol style="list-style-type: none"> 1. Notify EMT (radio) and advise situation and request assistance if needed; 2. Consider ESD of plant – dependent on location, proximity or safety need; 3. Ensure all personnel are safe and clear of area -Stay clear of Vapour, Fumes, Smoke and Spills; 4. Interacting personnel consider wearing ELSA gear if attempting to extract any personnel – advise ERTL of intent – obtain support and clearance; 5. Different PPE (Face shields, goggles, heavy gloves, Gum boots) may be required to safely perform the task; 6. Remove all sources of ignition to reduce the potential fire hazard; 7. Establish source of spill/leak, and determine the extent of pollution; 8. Stop further leakage (e.g. stop pumping or in case of pipeline leak give warnings to stop the flow), close valves, attempt to stop leaks, move object on its side; 9. Isolate spill or leak area for at least 100 metres (330 feet) in all directions to prevent spread of spilled product (if the situation requires- i.e. block drains, dam ditches, boom watercourses, close water intakes); 10. Divert or stop traffic (do not start vehicles if a low flash-point product has been split); 11. Attempt to collect spilled and ponding hydrocarbon and return product to safe containment; 12. Use safety related equipment as required, to safely extract personnel if in immediate danger; 13. Consider decontamination of personnel – clothing / footwear / equipment – water to dilute substance; 14. Never attempt to perform a rescue without support or adequate forethought; 	
Refer to: MSTD13-PL002 ERP Spill response procedure for assistance with methods of containment or prompts during the containment process (if fluid) or the <i>Australian-Emergency-Response-Guide-Book-2018</i> in M-Files.	
Post Event Actions	
<ul style="list-style-type: none"> ▪ Secure the scene for incident investigation; ▪ Team debrief / Mental anguish and concerns. 	

9.10 Emergency Event Guide 10 – Aircraft Accident

Incident	
Nature of the incident:	
<input type="checkbox"/> Helicopter Down	<input type="checkbox"/> Plane Down
<input type="checkbox"/> Other	<input type="checkbox"/> Emergency Landing
Response Guide	
Apply Emergency Action Guide and prepare for escalation	
<ul style="list-style-type: none"> ▪ Call for assistance as soon as possible ▪ Assess and ensure the scene is safe – withdraw personnel from danger (if required) ▪ Mobilise the SERT if additional resources are needed ▪ Mobilise competent first-aider to treat injured persons (if required) at scene or first-aid station ▪ Assist pilot and crew with notifications and calls for assistance 	
Additional Response – as required	
Ambulance – Fire – Police (Dial 000)	
Arrange escort for external back-up	
Notify General Manager Operations	
What to Do	
<ol style="list-style-type: none"> 1. Fire response team and vehicle to attend site – with a satellite phone; 2. If personnel are on the plane and fire is a barrier - Safely attempt to approach and extinguish any fire (or keep at bay) whilst personnel exit or are assisted; 3. Interacting personnel consider wearing ELSA gear when attempting to extract any onboard aircraft personnel. 4. Extricate personnel and team to a safe distance and clear of fumes (Upwind); 5. Isolate spill or leak area in all directions to prevent spread of spilled product (i.e. block drains, dam ditches, boom watercourses, close water intakes); 6. Remove all sources of ignition to reduce the potential fire hazard; 7. SERT first aid responder to provide immediate assistance – call Medical doctor / advise nearest clinic for support if required for in-field assistance; 8. Call 000 to advise of incident; 9. Monitor the downed aircraft and maintain safety vigil from a safe distance; 10. Do not attempt to touch or move the aircraft or any items which may have been thrown from the impact area. 	
Post Event Actions	
<ul style="list-style-type: none"> ▪ Secure the scene for incident investigation (CASA and Police incident scene) 	

9.11 Emergency Event Guide 11 – Medical Trauma

Incident	
Nature of the incident: <input type="checkbox"/> Person Trapped <input type="checkbox"/> Person Injured <input type="checkbox"/> Fire <input type="checkbox"/> Toxic Atmosphere <input type="checkbox"/> Electrical <input type="checkbox"/> Engulfment <input type="checkbox"/> Other	
Response Guide	
Apply Emergency Action Guide and prepare for escalation	
<ul style="list-style-type: none"> ▪ Call for assistance as soon as possible ▪ Assess and ensure the scene is safe – withdraw personnel from danger (if required) ▪ Mobilise the SERT if additional resources are needed ▪ Mobilise competent first-aiders to treat injured persons (if required) at scene or first-aid station ▪ Mobilise electrician and arrange isolations (if required) ▪ Access Work Permit at job site and refer to the emergency plan 	
Additional Response – as required	
Ambulance – Fire – Police (Dial 000)	
Arrange escort for external back-up	
Notify General Manager Operations	
What to Do	
<ol style="list-style-type: none"> 1. First responder shall: 2. Follow DRSABCD (Danger, Response, Send for help, Airway, Breathing, CPR, Defibrillation); 3. After the area assessment begin most appropriate actions; 4. Remove the patient and clear the area of personnel if potential for harm is, or may become evident (as required); 5. Keep others aware of dangers and delegate an assistant to help in key tasks; 6. Give preference to the SERT First aider to deliver emergency care to an injured person; 7. If an ambulance is available – bring the vehicle (and all medical equipment) to the site of the injured person; 8. Ensure a Satellite phone is at the scene and turned on; 9. SERT leader shall activate the SERT to ensure the area is made safe. 	
Post Event Actions	
<ul style="list-style-type: none"> ▪ Secure the scene for incident investigation 	

9.12 Emergency Event Guide 12 – Well Blowout

Incident	
Nature of the incident:	
<input type="checkbox"/> Oil Well	<input type="checkbox"/> Gas Well <input type="checkbox"/> Other
Response Guide	
Apply Emergency Action Guide and prepare for escalation	
<ul style="list-style-type: none"> ▪ Call for assistance as soon as possible ▪ Activate the emergency shutdown ▪ Assess and ensure the scene is safe – withdraw personnel from danger (if required) ▪ Mobilise the SERT if additional resources are needed ▪ Mobilise competent first-aider to treat injured persons (if required) at scene or first-aid station ▪ Mobilise electrician and arrange isolations (if required) 	
Additional Response – as required	
Ambulance – Fire – Police (Dial 000)	
Arrange escort for external back-up	
Notify General Manager Operations	
What to Do	
<ol style="list-style-type: none"> 1. Use DRS – Danger, Response, Send for help; 2. Close the surface valves or the Blowout Preventer (BOP) using all necessary safety equipment and care; 3. Evacuate non-essential personnel and establish exclusion zones; 4. Contact Company Drilling manager for information on how to further control the situation; 5. Initiate the necessary well controls and monitor results; 6. Account for personnel – both contractor and staff. 	
Post Event Actions	
<ul style="list-style-type: none"> ▪ Secure the scene for incident investigation 	

9.13 Emergency Event Guide 13 – Bites / Stings

Incident	
Nature of the incident:	
<input type="checkbox"/> Snake Bite <input type="checkbox"/> Spider Bite <input type="checkbox"/> Bee / Wasp Sting <input type="checkbox"/> Other	
Response Guide	
Apply Emergency Action Guide and prepare for escalation	
<ul style="list-style-type: none"> ▪ Call for assistance as soon as possible ▪ Secure scene and withdraw personnel from danger (if required) ▪ Try to identify what caused the poisoning/bite/sting ▪ Establish exclusion zones, if required ▪ Mobilise the SERT if additional resources are needed ▪ Mobilise competent first-aider to treat injured persons (if required) at scene or first-aid station ▪ Arrange escort for internal backup 	
Additional Response – as required	
Ambulance – Fire – Police (Dial 000)	
Arrange transport of persons to medical facility	
Arrange escort for external back-up	
Notify General Manager Operations	
What to Do	
Managing a Snake Bite	
NOTICE	
<ul style="list-style-type: none"> ▪ Do not wash venom off the skin as this will assist identification. Do not use a constrictive bandage (i.e. arterial tourniquet) ▪ Do not try and catch the snake – identification is no longer required for antivenom 	
<ol style="list-style-type: none"> 1. Check for signs of life: if patient is unconscious, follow DRSABCD (Danger, Response, Send for help, Airway, Breathing, CPR, Defibrillation) procedures; 2. Keep the patient calm; 3. Apply a pressure bandage firmly starting just above the fingers or toes and moving up the limb as far as possible; 4. Immobilise casualty: <ul style="list-style-type: none"> - apply a splint to immobilise the limb - check circulation of fingers or toes - ensure patient doesn't move 5. Call for an ambulance/medical assistance. 	

What to Do	
Managing a Spider Bite	
<ol style="list-style-type: none"> 1. Follow DRABCD (Danger, Response, Airway, Breathing, CPR, Defibrillation) procedures 2. Lie patient down 3. Keep patient calm 4. Immobilise patient: <ul style="list-style-type: none"> - apply a splint to immobilise the limb - check circulation in fingers or toes - ensure patient doesn't move 5. Call for an ambulance/medical assistance. 	

What to Do	
Managing a Sting / Allergy	
NOTICE	
<ul style="list-style-type: none"> ▪ Person with a known allergy may be carrying an EpiPen® and may request assistance in administering the drug 	
<ol style="list-style-type: none"> 1. Follow DRABCD (Danger, Response, Airway, Breathing, CPR, Defibrillation) procedures; 2. Lie patient down; 3. Keep patient calm; 4. Administer <ul style="list-style-type: none"> - EpiPen® if available and required (EpiPen injection time use is indicated on the pen – 10 second & new 3 second); 5. Apply ice or cold compresses to help reduce the pain and/or swelling; 6. Call for an ambulance/medical assistance. 	
Post Event Actions	
<ul style="list-style-type: none"> ▪ Secure the scene for incident investigation 	

9.14 Emergency Event Guide 14 – Pipelines

Incident	
Nature of the incident:	
<input type="checkbox"/> Rupture	<input type="checkbox"/> Leak
<input type="checkbox"/> Other	<input type="checkbox"/> Blowout
Response Guide	
Apply Emergency Action Guide and prepare for escalation	
<ul style="list-style-type: none"> ▪ Call for assistance as soon as possible ▪ Assess and ensure the scene is safe – withdraw personnel from danger (if required) ▪ Mobilise the SERT if additional resources are needed ▪ Mobilise competent first-aider to treat injured persons (if required) at scene or first-aid station ▪ Mobilise electrician and arrange isolations (if required) ▪ Access Work Permit at job site and refer to the emergency plan 	
Additional Response – as required	
Ambulance – Fire – Police (Dial 000)	
Check gas monitoring results on work permit	
Test atmosphere with gas monitor before entering the confined space	
Arrange escort for external back-up	
Notify General Manager Operations	
What to Do	
Leak	
<p>NOTE: If there is a leak, the response should be consistent with the information presented in the spill/release Emergency Action Guide.</p>	
Ruptures	
<ol style="list-style-type: none"> 1. Identify the location of the failure and isolate the affected section of the pipeline, suspend operations if necessary; 2. Arrange for the safe shutdown of plant, equipment, vehicles in the affected area; 3. Establish a perimeter around the affected area, evacuate or restrict access; 4. Determine if any outside assistance is required; 5. Establish gas or other testing protocols prior to entering the area or introducing any potential ignition sources e.g. equipment; 6. If the spill has leaked into any water courses, install booms/barriers to limit any flows. Establish spoon drains/berms/dirt bunds to contain any flow or runoff; 7. Review forecast weather information; 8. Monitor and manage the leaked product ensuring personnel remain safe. 	
Post Event Actions	
<ul style="list-style-type: none"> ▪ Secure the scene for incident investigation; ▪ Determine the likely amount of spillage. 	

9.15 Emergency Event Guide 15 – Gas Leak (Minor)

Incident	
Nature of the incident:	
<input type="checkbox"/> Rupture	<input type="checkbox"/> Leak
<input type="checkbox"/> Other	<input type="checkbox"/> Blowout
Response Guide	
Apply Emergency Action Guide and prepare for escalation	
<ul style="list-style-type: none"> Communicate to personnel to vacate the area and notify SERT Coordinator and SERT Leader Mobilise the SERT if additional resources are needed Shut down or isolate plant as required, cease vehicle / equipment movements, cordon off the area Organise Work Permit and or Initiate immediate repairs or other actions as required. Monitor progress of repairs or situation until condition made safe Advise team members of satisfactory completion of repairs or of safe condition 	
Additional Response – as required	
Ambulance – Fire – Police (Dial 000)	
Check gas monitoring during process of repairs or making safe	
Test atmosphere with monitor before entering the area	
Log details of condition, time and task progress	
Notify General Manager Operations	
What to Do	
Leak	
<p>NOTE: The ESD systems provide the main control mechanism for all Gas escapes: no attempt should be made to disperse or extinguish a Gas cloud or fire unless the extinguisher is readily at hand and the fire smaller than a waste bin in size.</p> <ol style="list-style-type: none"> Identify the location of the leak and isolate the affected section of the pipeline, suspend operations if necessary; Arrange for the safe shutdown of plant, equipment, vehicles in the affected area; Establish a perimeter around the affected area, evacuate or restrict access; Determine if any outside assistance is required; Establish gas or other testing protocols prior to entering the area or introducing any potential ignition sources e.g. equipment; Make emergency repairs to eliminate gas escaping from the affected area; Review forecast weather information; Prepare a Permit and work order to finalise after immediate repairs undertaken; Prepare and enter information to incident report in INX; Determine the likely amount of release. 	
Post Event Actions	
<ul style="list-style-type: none"> Secure the scene for incident investigation De-brief team re incident, non-dissemination or disclosure of information to friends or media 	

9.16 Emergency Event Guide 16 – Gas Leak (Major)

Incident	
Nature of the incident:	
<input type="checkbox"/> Rupture	<input type="checkbox"/> Leak
<input type="checkbox"/> Other	<input type="checkbox"/> Blowout
Response Guide	
Apply Emergency Action Guide and prepare for escalation	
<ul style="list-style-type: none"> ▪ Call for assistance as soon as possible ▪ Activate the ESD system – as required ▪ Mobilise the SERT ▪ Shut down or isolate plant as required, cease vehicle / equipment movements, cordon off the area ▪ Assess the scene – move personnel further from danger (if required) ▪ Notify EMT if additional resources are needed ▪ Mobilise competent first aider to treat injured persons (if required) at scene or first-aid station ▪ SERT refer to the emergency plan 	
Additional Response – as required	
Ambulance – Fire – Police (Dial 000)	
Monitor emergency situation and advise EMT	
Restrict entry to all affected areas	
Notify General Manager Operations	
Notify external emergency response as directed or required	
What to Do	
Leak	
<ol style="list-style-type: none"> 1. The ESD systems provide the main control mechanism for all Gas escapes: no attempt should be made to disperse or extinguish a Gas cloud or fire; 2. Identify the location of the failure and isolate the affected section of the leak, suspend operations if necessary; 3. Arrange for the safe shutdown of plant, equipment, vehicles in the affected area; 4. Establish a perimeter around the affected area, evacuate or restrict access; 5. Determine if any outside assistance is required; 6. If repairs are possible – undertake using caution; 7. Review forecast weather information; 8. Assign a team member to gather and record information about the leak and the incident timeline; 9. Determine the likely leak volume. 	
Post Event Actions	
<ul style="list-style-type: none"> ▪ Secure the scene for incident investigation ▪ De-brief team re incident, non-dissemination or disclosure of information to friends or media 	

10. Additional Information

10.1 Aviation Guidance

Aircraft must contain enough fuel for the return leg of journey as additional fuel stocks are not available on site

Site Airstrip Basic Information

- Airstrips are generally maintained all-weather dirt runway
- Site coordinates (To be supplied):
 - Latitude/Longitude:
 - Elevation
- The runway is on a magnetic bearing of:
- The strip dimensions are:
- Runway / Site call sign and frequency: (if required) Frequency:
- Pilot should establish radio communications with Site 30 minutes from runway to allow for runway checks and local weather condition reports

Note: Any concerns or hazards associated with the runway or landing position:

When arriving at night (or following periods of wet weather), the RFDS pilot may determine that an airstrip inspection is required prior to landing.

1. If an inspection is deemed necessary, the RFDS Operations Communications Centre will contact you to arrange someone to be present at the airfield at least 15 minutes prior to the aircraft's arrival.
2. The pilot must be able to contact a person at the airfield to confirm the runway is serviceable and free of hazards.
3. Contact between the aircraft and the ground will be made via **UHF Channel 13**.
4. If verbal confirmation via **UHF Channel 13** is not forthcoming, the pilot will independently assess the situation and may not land.

Site Airstrip Night Landing

Lighting is required to be initiated at least 30 minutes before the estimated time of arrival of the aircraft in the way prescribed by RFDS night landing requirements.

Parking

- Park your vehicle so that it is pointing into the wind.
- Turn your headlights on high beam and hazard lights on.
- No vehicle is to be parked at either end of the runway.
- All vehicles must be at least 30 metres from the side of the airstrip.
- If possible, park as close as practicable to the windsock (do not attempt to illuminate the windsock with car lights).
- If parking here is not possible, park in a clear location at least 30 metres from the side of the strip.

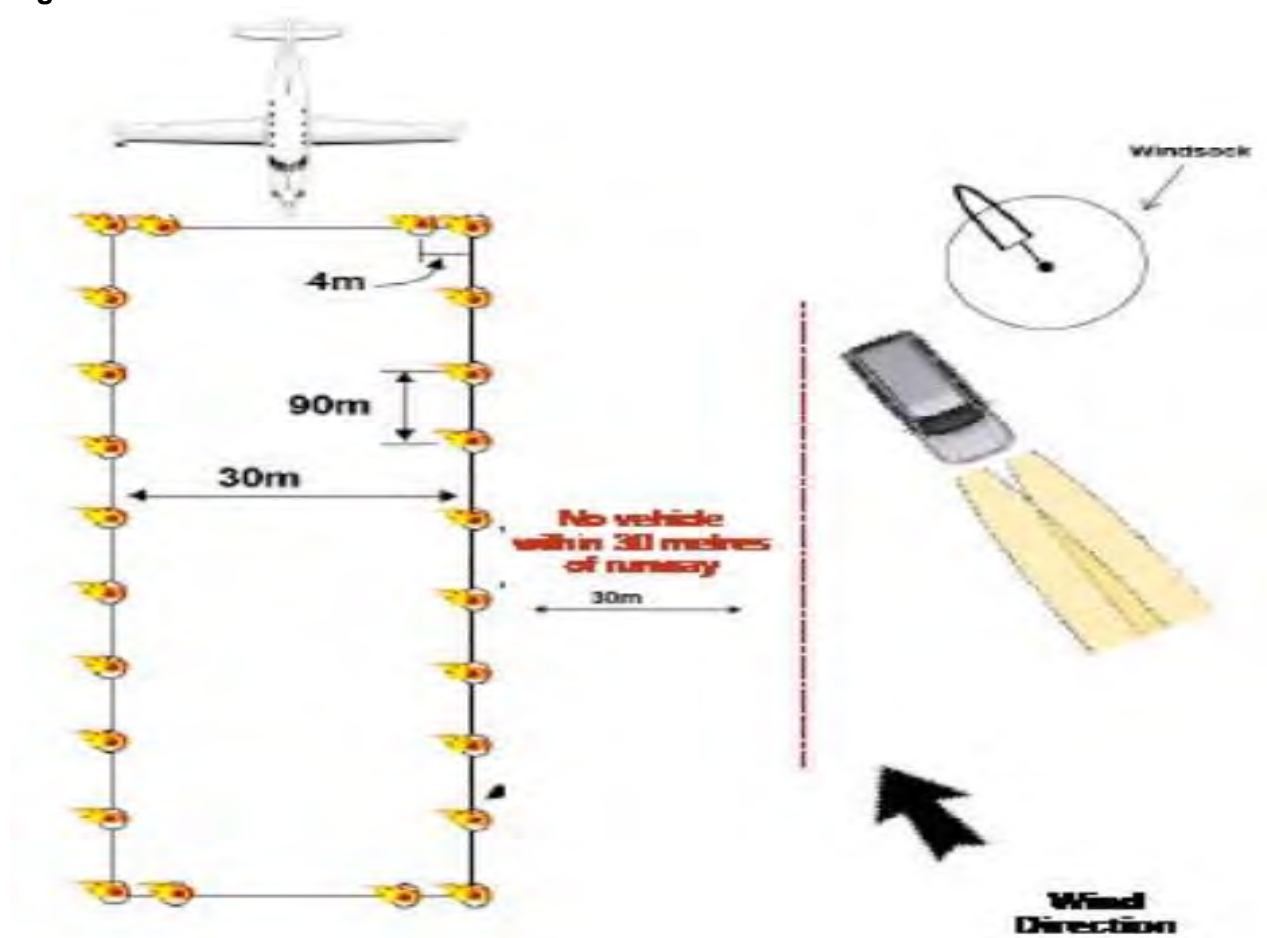
Stay listening to UHF channel 13

1. The pilot will contact you as they approach your area to confirm the airstrip is serviceable and safe.
2. Speak up if there are any issues
3. The aircraft may NOT land if the pilot is unable to contact you.
4. In the event the aircraft is circling overhead, and you haven't had contact from them, there may be radio issues. If you have checked the airfield as per this procedure, turn on your vehicle's hazard lights to indicate it is safe to land.
5. If you have radio issues, call the RFDS Operations Communications Centre on 1800 RFDS SA (1800 733 772).

After aircraft departure

Flares / lights must be left lit for 30 minutes in the event the aircraft must return to land due to an emergency.

Figure 1



Before the aircraft is due to land, check the strip to ensure it is clear of wildlife, stock or debris. Condition of runway surface is to be determined and any issues communicated to the pilot.

Site Helipad basic information

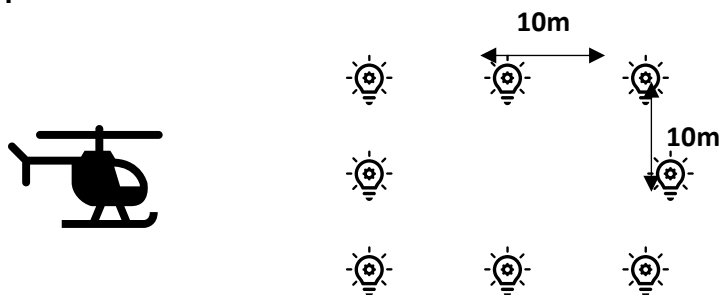
- Helipad is a maintained all-weather dirt pad
- Site coordinates:
 - Latitude/Longitude:
- The helipad is located:
- The pad dimensions are 30 x 30 meters
- Site call sign:
- Frequency:
- Pilot should establish radio communications 30 minutes prior to landing on site to allow for checks and local weather condition reports

The helipad has a final approach and take-off area which is circular and equal to twice the length of a helicopter. Should a larger than normal helicopter be used, and concern is raised regarding the landing site, the airstrip should be used.

Site Helipad Night Landing

Lighting is required to be initiated at least 30 minutes before the estimated time of arrival of the aircraft in the way prescribed by RFDS night landing requirements.

Figure 1



Five (5) minutes before the helicopter is due to arrive, inspect the landing area to ensure the site is free of loose objects that could be blown away.

Helicopter Safety Procedure

All personnel are to be instructed as to the safest way to approach the helicopter including:

- removing and securing any loose clothing when approaching or when showing wind direction
- only approaching the helicopter when the pilot gives you the thumbs up
- approaching and leaving the helicopter in a crouched position in the pilot's field of vision, never toward the rear of the helicopter
- always follow the pilot's instructions as they are responsible for the safety of the flight
- If the helicopter is taking off immediately, move at least 10 metres away with your gear and crouch down. Remain there until the helicopter has gone.

10.2 Site Information / Maps

Location

Site Name	Mereenie	
Site Address	Off Larapinta Drive	
Site Grid Reference	Latitude: 23 58 36 South Longitude: 131 33 42 East	
Site Location and Accessibility Relevant to Local Community	Item	Details
	Nearest Town	Alice Springs (300kms)
	Nearest Major Road	Larapinta Drive
	Nearest Airport	Kings Canyon
	Nearest Airstrip	Mereenie

Operation

Core Site Business	Gas Production
Operating Hours	365 days per year, 24 hours per day
Staffing arrangements	Operations staff work day shift only. 24-hour support is provided via an on-call roster. Operations staff stay on-site in an accommodation block.
Site Internal Emergency Radio Channel	No. 2 Not monitored 24hrs.

Onsite Medical Support

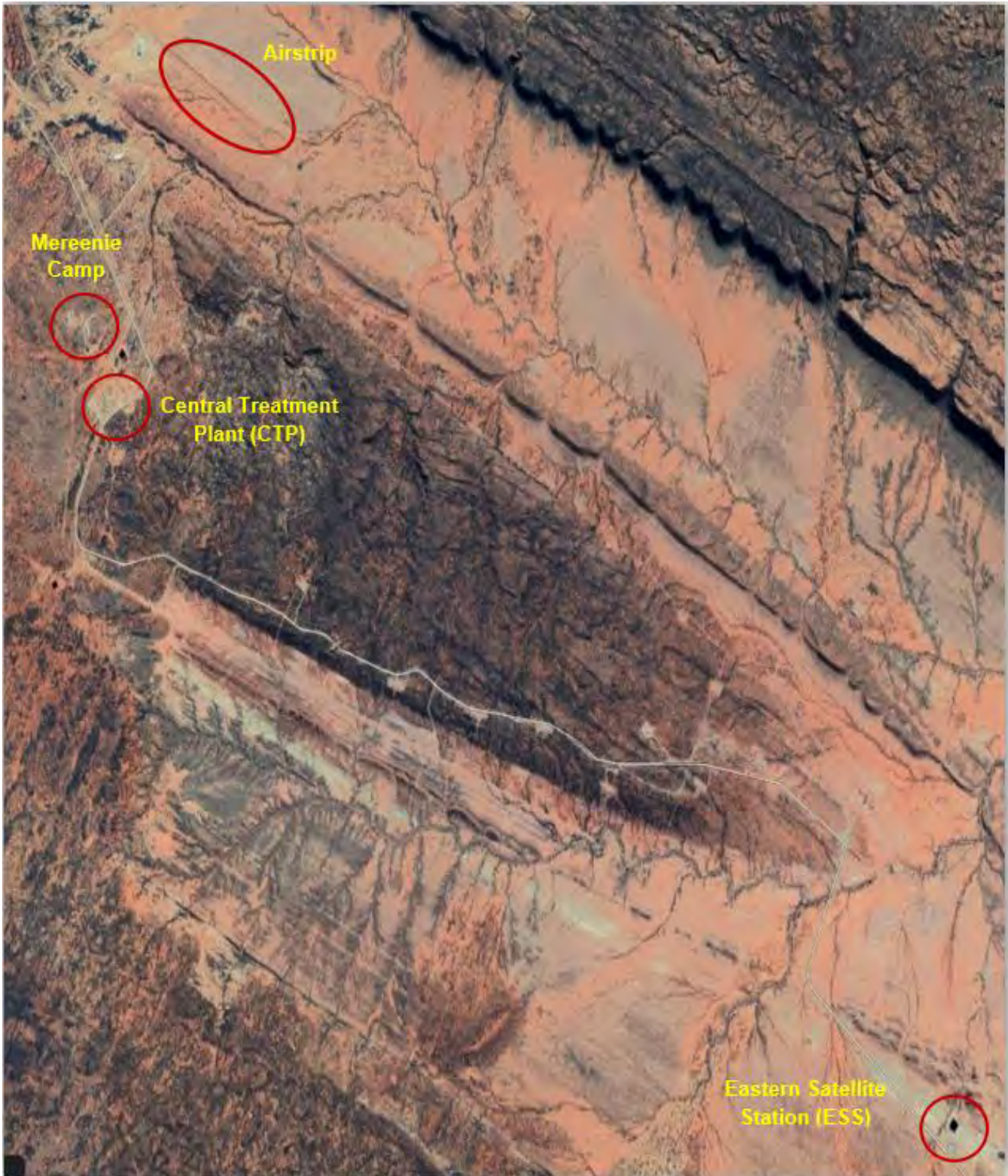
Qualified first aiders	2 per shift
First aid kits	In every vehicle and boxed for use in emergencies
NT Health Medial Kit	Fully equipped drug dispensing kit
Specific equipment	Fully equipped medical room and ambulance on standby

Maps

The following maps / pictures are included for use in an emergency:

- Site – showing location of the camp, Central Processing Facility, and airstrip
- Camp maps – showing the location of emergency equipment
- Central Processing Facility
- Major pipeline infrastructure map

Mereenie Operation Map



Mereenie Camp Map



Central Treatment Plant



Eastern Satalitte Station



Major Pipeline Infrastructure map

