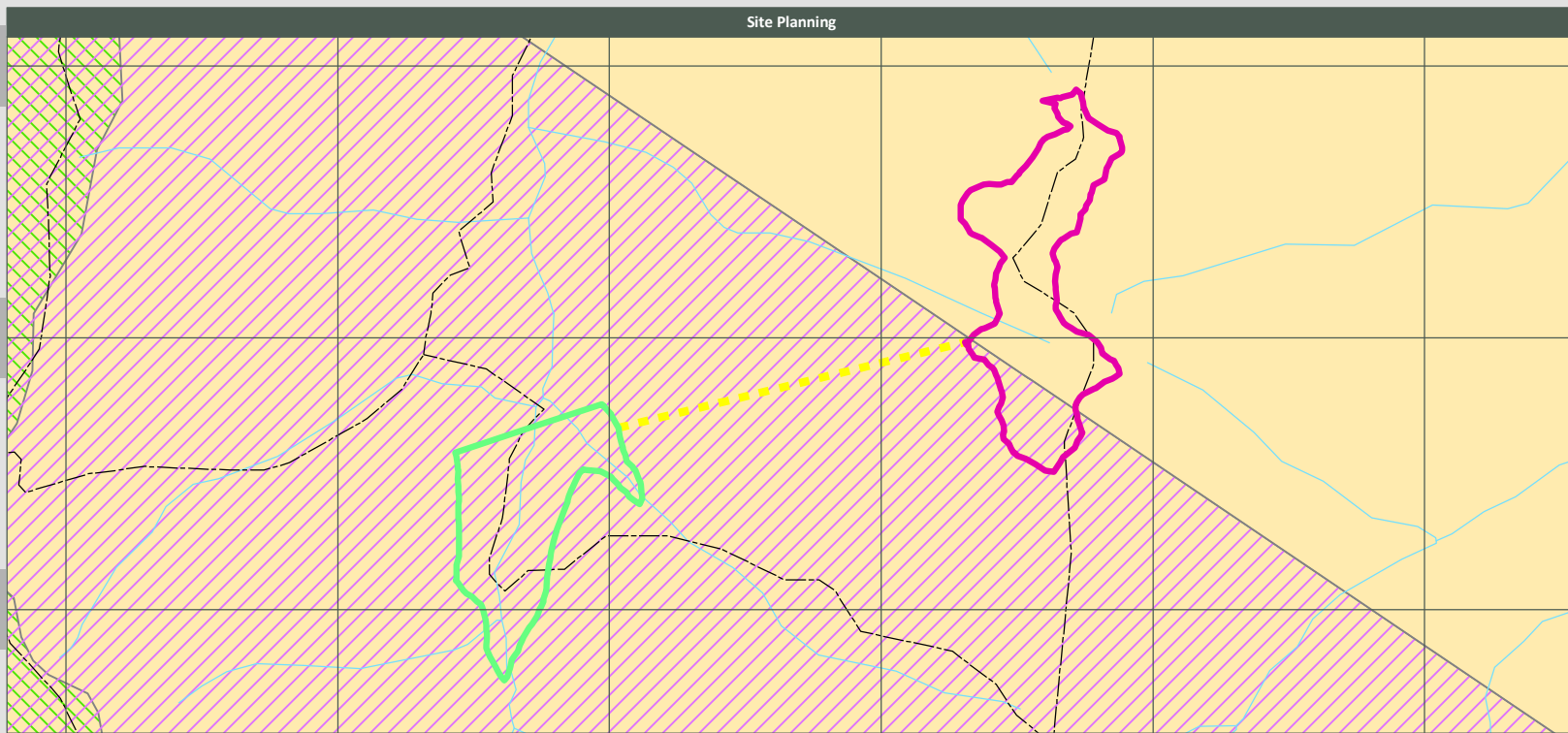


Title	PSP ATLAS - STAGE 2 SITE OVERVIEW 6_3549-4_607116
Client	Hydro Tasmania
Map no.	E306448-P512479-GIS02-3
Date	27/02/2018
Drawn	James Head-Mears & Jim Moore
Reviewed	Mohsen Moieni
Approved	Scott Lobdale

Site Map

- NEM substation
- NEM transmission line
- Building
- Built up area
- Upper storage
- Lower storage
- Indicative waterways alignment
- Dual carriageway
- Principal road
- Secondary road
- Minor road
- Track
- Watercourse major
- Watercourse minor
- Protected area

FOR DEMONSTRATION ONLY
Sensitive location
Information obscured



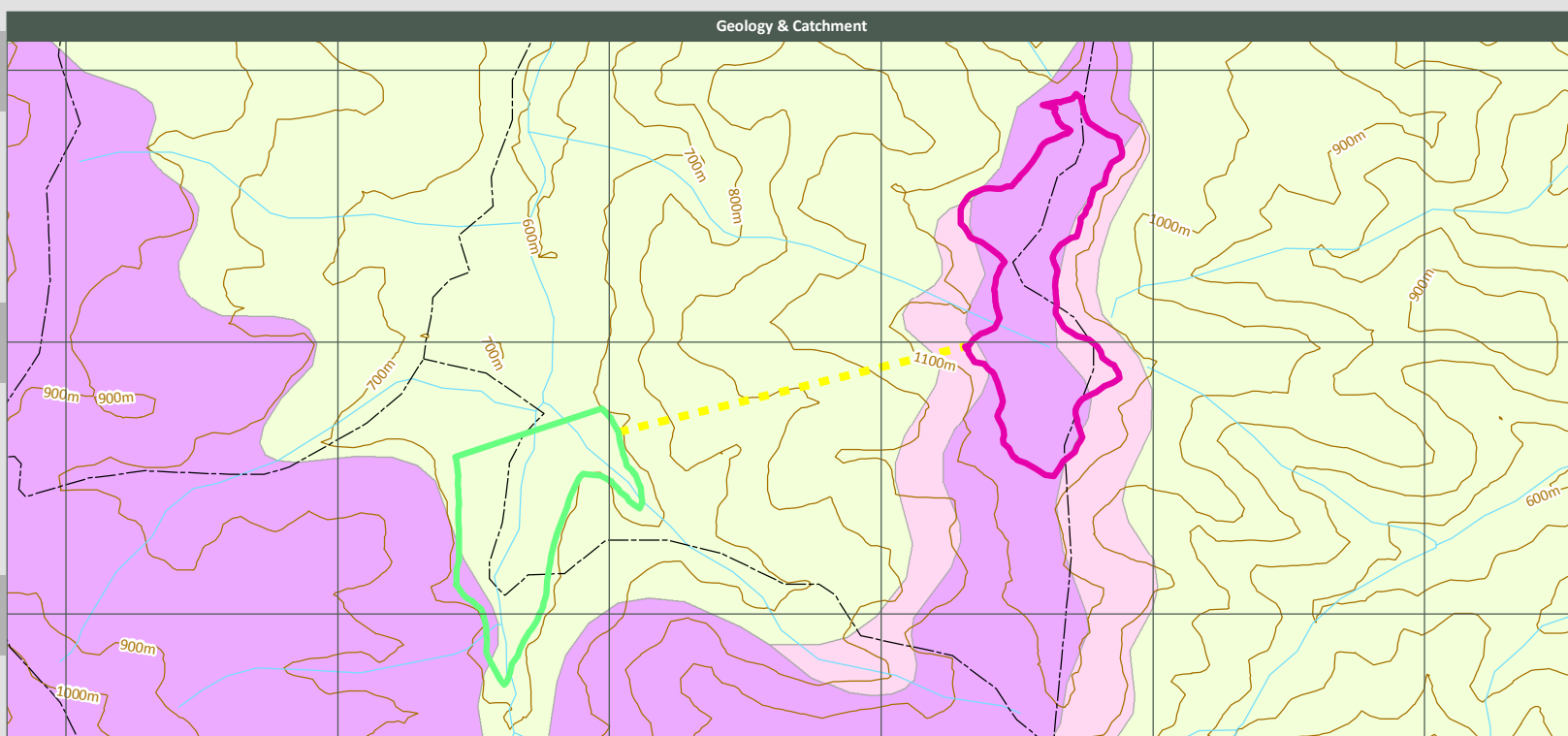
Site Planning

VIC Planning Overlay

- Bushfire Management Overlay (BMO or WMO)
- Environmental Significance Overlay - Schedule 2

VIC Planning Zone

- Public Conservation and Resource Zone



Geology & Catchment

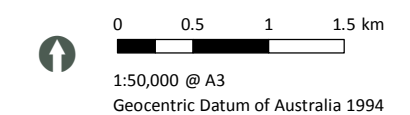
- Contour (100m)

Surface Geology

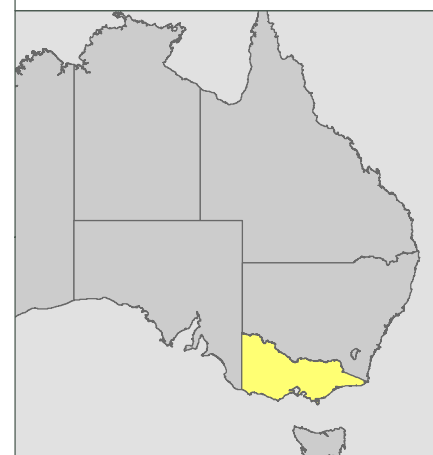
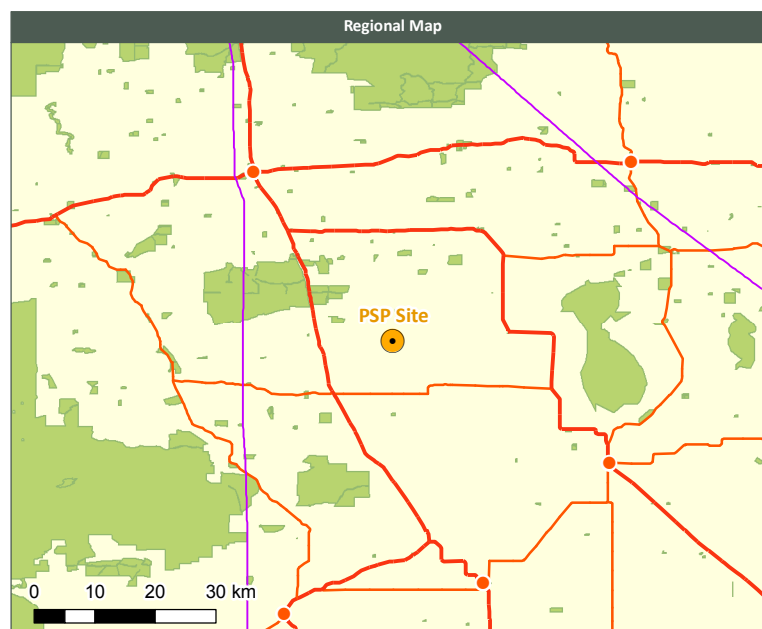
- Conglomerate, pebbly sandstone, minor red mudstone
- Mudstone, sandstone
- Rhyolitic quartz ignimbrite

Notes

- The project arrangement shown has been manually adjusted to suit the defined installed capacity compared to the arrangement which was identified in the *PSP Atlas of Australia, Stage 1: Screening* (Entura, 2017). The optimum arrangement could significantly be different for the site once an engineering evaluation has been undertaken.
- Due to the above, some of the generated reservoirs may include existing buildings, roads, etc. as this is not a proposed layout but rather a potential opportunity for the development of a Pumped Storage Plant.
- Coordinates shown are in GDA94 (DMS).
- Planning and geological information is sourced from the following bodies: Mineral Resource Tasmania (TAS); Department of Economic Development, Jobs, Transport and Resources (VIC); Department of Environment, Land, Water and Planning (VIC); NSW Department of Planning and Environment (NSW Crown Copyright).



Summary Information	
Project detail	Upper storage
PSP ID	6_3549-4_607116
PSP type	Closed-cycle
Active volume	13.2 Mm ³
Average gross head	460 m
Distance between storages (min.)	1,980 m
Estimated head loss	5.35 m
Estimated energy generation	14,440 MWh (per cycle)
Cyclic efficiency	80.3%
L/H ratio	4.3
Design discharge (5-hour cycle)	745 m ³ /s
Installed capacity	3,000 MW x 5 hours
Nearest substation	48 km to [redacted]
Annual rainfall	1,333 mm/yr
Annual evaporation	1,126 mm/yr
Regional generation	Wind 0 MW
(50 km radius)	Solar 0 MW
CAPEX	\$2.4bn
CAPEX per MW of installed capacity	\$0.8m
	Lower storage
	Catchment 1.76 km ²
	Storage type Valley dam
	Storage name N/A
	Active volume 13.2 Mm ³
	Assumed fluctuation 20 m
	FSL 690 m AHD
	Dam height 60 m
	Dam length 871 m
	Planning scheme Public Conservation and Resource Zone



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