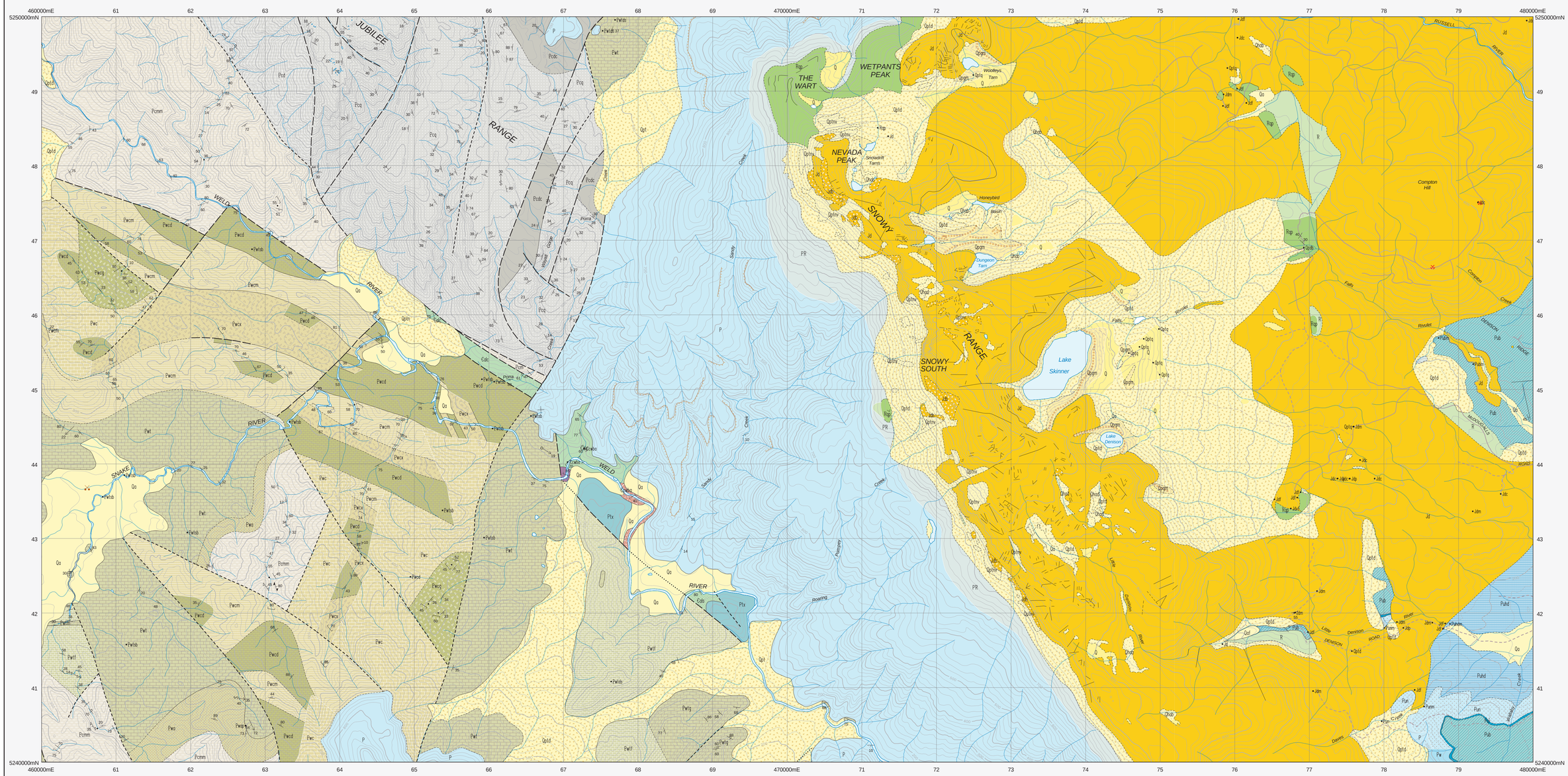
Department of Infrastructure Energy and Resources
MINERAL RESOURCES TASMANIA

DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
NEVADA, SHEET 4624

NEVADA

Scale: 1:25 000

0 500 1000 1500 2000 2500m



CENOZOIC

QUATERNARY

Unit	Description
Qhab	Marsh and swamp deposits (Qhab), highland marsh deposits with common protruding dolerite outcrops and boulders (Qhad).
Qa	Alluvial gravel, sand and clay (Qa). Some alluvial fans indicated (Qaf).
Qptnv	Periglacial non-vegetated scree deposits (Qptnv).
Qpt	Talus (Qpt); talus consisting dominantly of Jurassic dolerite boulders (Qptd); dominantly of Upper Parmeener Supergroup quartz sandstone (Qptq); of Proterozoic orthoquartzite (Qptn).
Qpgm	Mostly morainal deposits (Qpgm).
• Qpdb	Deeply weathered dolerite boulder deposit at 476910mE 5246885mN (Qpdb).

Erosional surface.

MESOZOIC

TRIASSIC

Unit	Description
Rgp	Dominantly freshwater, cross-bedded quartzose sandstone and subordinate micaceous siltstone and mudstone (correlate in part of Ross Formation) (Rgp); metamorphosed by Jurassic dolerite, shown by notable small outcrop (Rgpm).

PALEOZOIC

PERMIAN

Unit	Description
Pub	Generally unfossiliferous medium to thick-bedded marine siltstone and sandstone with lonestones, some intensely bioturbated beds and rare conglomeratic siltstone layers; laminated dark grey micaceous siltstone with foraminifera at top (correlate of Abels Bay Formation) (Pub); metamorphosed by Jurassic dolerite, shown by notable small outcrop (Pubm).
Pul	Well-sorted, fine-to coarse-grained marine feldspathic sandstone with quartz granules and pebbles (correlate of Risdon Sandstone) (Pul).
Pun	Generally fossiliferous mudstone, siltstone and sandstone with lonestones (correlate of Bundella, Dep Bay and Minnie Point Formations and Faulkner Group) (Pw).
Pw	Medium to thick-bedded, generally poorly fossiliferous pebbly marine siltstone and sandstone sequence, with cliff-forming olive-brown weathered coarse-grained sandstone with cobble horizons at the base, and fossiliferous sandstone at the top (correlate of Minnie Point Formation) (Pun); metamorphosed by Jurassic dolerite, shown by notable small outcrop (Pum).
Puhd	Thin to thick-bedded, generally richly fossiliferous marine siltstone and sandstone with lonestones, (correlate in part of Deep Bay Formation) (Puhd); metamorphosed by Jurassic dolerite, shown by notable small outcrop (Puhdm).

CARBONIFEROUS ?

Unit	Description
Ptx	Dark grey dominantly pebbly diamictite with sparse fragmentary marine fossils, mudstone and laminite; upper unit at Maydena Range of interbedded, pebble to boulder grade conglomerate, diamictite and sandstone with some shell fossils (correlate of Truro Tillite) (Ptx).

Angular unconformity.

CAMBRIAN

Unit	Description
Ꞓals	Quartz-rich lithic sandstone and minor conglomerate of metamorphic, volcanic and dolomitic provenance, and mudstone (Ꞓals).
Ꞓalc	Polymict, dominantly mafic and ultramafic-derived conglomerate, lithic sandstone and shale (Ꞓalc).

Inferred unconformity.

NEOPROTEROZOIC

CRYOGENIAN – EDIACARAN

WELD RIVER GROUP

Unit	Description
Pwcg	Predominantly pebbly laminated dolomitic siltstone and mudstone and pale grey dolomitic diamictite (Pwcg).
Pwcm	Predominantly black mudstone and quartz sandstone (Pwcm).
Pwcx	Predominantly black dolomitic diamictite (Pwcx).
Pwcd	Predominantly massive, fine-grained dolostone (Pwcd). (Pwcu: correlate of Cotcase Creek Formation).
Pwtg	Dolostone and rare mudstone (Pwt). Dominantly fine-grained dolostone (Pwtf); dominantly oolitic grainstone (Pwtg); red mudstone (Pwtm).
Pwtf	
Pwtm	
Pwa	Conglomerate, sandstone and minor mudstone (Pwa). Pebbly laminated siltstone and mudstone at 462710mE, 5242485mN (Pwa2). (correlate of Annakananda Formation).

Low-angle unconformity.

MESOPROTEROZOIC – NEOPROTEROZOIC

CLARK GROUP

Unit	Description
Pcmm	Dominantly mudstone and quartz siltstone (Pcmm).
Pcd	Dominantly dolomitic mudstone and siltstone, with minor dolostone and limestone (Pcd).
Pcdc	Dolomitic mudstone, siltstone and intraclastic conglomerate (Pcdc).
Pcq	Orthoquartzite (correlate of Needles Quartzite) (Pcq).

INTRUSIVE ROCKS

MESOZOIC – JURASSIC

Unit	Description
Jd	Dolerite (Jd); dolerite with granophyre and pegmatite (Jdp) indicated. Dolerite of grainsize 0.2–0.7mm (Jdvf); 0.7–1.5 mm (Jdf); 1.5–3 mm (Jdm); >3 mm (Jdc) indicated.
Jdb	Dolerite fragmented by periglacial processes (Jdb).

PALEOZOIC – CAMBRIAN(?) – TERRENEUVIAN(?) – CAMBRIAN SERIES 2

Unit	Description
Ꞓdi	Diorite (Ꞓdi).
Ꞓcwba	Amphibolite (Ꞓcwba).

ALTERED ROCKS

NEOPROTEROZOIC

Unit	Description
Pwtsb	Bouldery lag of silicification products (Pwtsb).
Pwtds	Dolostone of Weld River Group partly or wholly replaced by coarsely crystalline quartz of massive to boxwork fabric. Silicification in part of post-Carboniferous age (Pwtds).

Geological boundary – position approximate.
Geological boundary – inferred.
Scarp.
Moraine ridge crests.
Photo Lineament.
Fault – position approximate.
Fault – inferred.
Fault – concealed.
(white line) Limit of mapping of sub-unit within undifferentiated rock unit.

Strike and dip of bedding – right way up; overturned; facing unknown.
Horizontal bedding.
Strike and dip of cleavage of unspecified type and relative age; vertical.
Strike and dip of cleavage of relative local age S1.
Strike and dip of cleavage of relative local age S2.
Trend and plunge of minor fold hingeline; with dip and dip direction of axial surface indicated.
Trend and plunge of minor fold hingeline, vergence sinistral; with dip and dip direction of axial surface indicated.
Strike and dip of dominant joint set.
Trend and plunge of lineation of unspecified type.
Notable small outcrop with rock unit indicated.
Notable small float or lag occurrence, with rock type indicated.
Field station for adjacent readings on the map.
Mineral deposit location – alluvial/tailings
Construction material/industrial mineral/gemstone location
} Data derived from Mineral Resources Tasmania DEPOSITS database. Data point position has not been verified in every case.

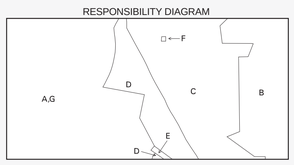
Compiled by C.R. Calver, B.Sc.(Hons), Ph.D. and S.M. Forsyth, B.Sc. 1997 from the following sources (see responsibility diagram):

A C.R. Calver, 1989–1990, 1:25 000 scale mapping.
B S.M. Forsyth, 1995–1997, 1:10 0000 scale mapping.
C S.M. Forsyth, Largely airphoto interpretation.
D C.R. Calver, Largely airphoto interpretation.
E C.R. Calver and J.L. Everard, personal observation.
F E.B. Corbett, personal observation.

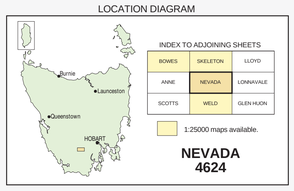
Updated by:

G M. Vicary, 2004 as part of the Western Tasmanian Regional Minerals Program.

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



INDEX TO ADJOINING SHEETS

BOMES	SKELETON	LLOYD
ANNE	NEVADA	LONNAVALE
SCOTTS	WELD	GLEN HUON

1:25000 maps available.

NEVADA 4624

REFERENCE THIS MAP AS:

CALVER, C.R. and FORSYTH, S.M. (compilers) 1997. Digital Geological Atlas 1:25 000 Scale Series. Sheet 4624. Nevada. Mineral Resources Tasmania.

Base data from the LIST, Copyright State of Tasmania.

Map produced by the Geoscience Information Branch of Mineral Resources Tasmania using G.I.S. software.

GDA94 – MGA Zone 55. Contour Interval: 20 metres.

While every care has been taken in the preparation of this data, no warranty is given as to the correctness of the information and no liability is accepted for any statement or opinion or for any error or omission. No reader should act or fail to act on the basis of any material contained herein. Readers should consult professional advisers. As a result the Crown in Right of the State of Tasmania and its employees, contractors and agents expressly disclaim all and any liability (including all liability from or attributable to any negligent or wrongful act or omission) to any persons whatsoever in respect of anything done or omitted to be done by any such person in reliance whether in whole or in part upon any of the material in this data.
Crown copyright reserved.

Plotfile for this map generated from digital data as at: 01-FEB-2012

WARNING: INKS ARE LIGHT SENSITIVE