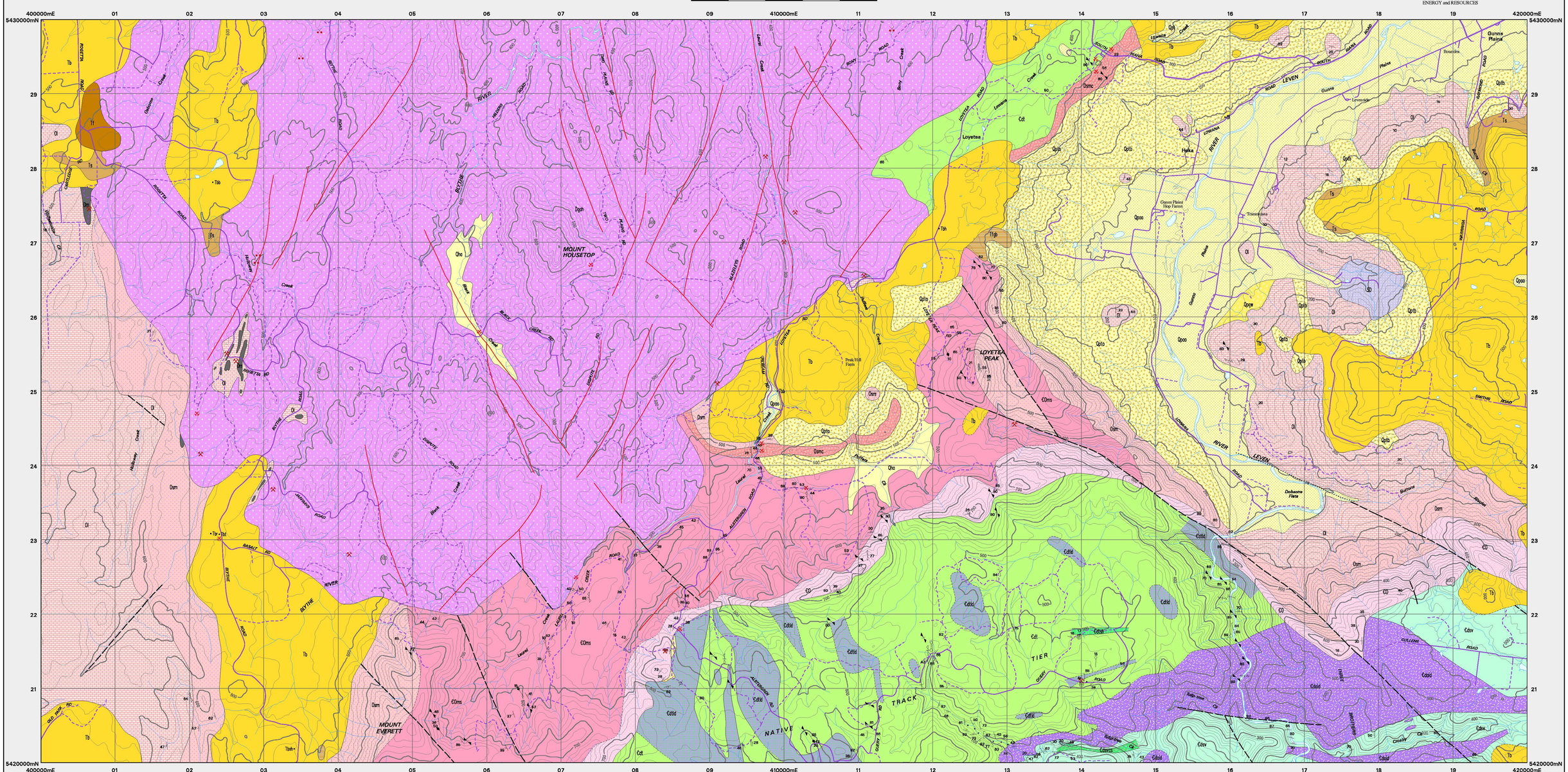
LOYETEA

Scale: 1:25 000

0 500 1000 1500 2000 2500m

MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
LOYETEA, SHEET 4042

MINERAL RESOURCES TASMANIA
Tasmania
DEPARTMENT of INFRASTRUCTURE ENERGY and RESOURCES



CAINOZOIC

QUATERNARY

HOLOCENE

- Qha — *Stream alluvium, swamp and marsh deposits (Qha).*
- Qptb — *Basalt talus (Qptb).*
- Qpt — *Quartz sandstone and conglomerate talus derived from Owen Group correlates (Qpto).*
- Qpao — *Older alluvium (Qpao).*

PLEISTOCENE

- Qpgw — *Weathered till (Qpwg).*

TERTIARY

- Tb — *Basalt (Tb) including local occurrence of basanite (Tbh), hawaiite (Tbb), nepheline hawaiite (Tbnh), transitional olivine basalt (Tbr) and olivine tholeiite (Tbt).*
- Ts — *Terrestrial sand, gravel and minor lacustrine deposits (Ts).*
- Tf — *Ferricrete (Tf).*
- Tfgb — *Greybilly and silcrete (Tfgb).*

PALAEOZOIC

SILURIAN-DEVONIAN

- SD — *Shallow marine quartz sandstone, siltstone and shale (SD).* — ELDON GROUP

ORDOVICIAN

- Ol — *Limestone (correlate of Gordon Limestone) (Ol).* — GORDON GROUP
- Osm — *Grey poorly sorted fine–grained sandstone, commonly bioturbated (correlate of Moina Sandstone) (Osm).*
- Osmc — *Grey medium–to coarse–grained sandstone and pebble–cobble conglomerate, rarely bioturbated (Osmc).* — OWEN GROUP
- COms — *Grey to black quartzose sandstone (COms).*

LATE CAMBRIAN

- CO — *Dominantly pebble–cobble siliciclastic conglomerate (CO).* — WURAWINA SUPERGROUP

PALAEOZOIC

LATE CAMBRIAN–MIDDLE CAMBRIAN

- Cdt — *Predominantly crystal +– lithic rich volcaniclastic sediments with minor siltstone and minor acid to intermediate volcanics (Correlate of Tyndall Group and Rodfords Creek Group) (Cdt).*
- Cdtsh — *Siltstone–shale horizon within Tyndall Group (Cdtsh).*
- Cdtld — *Plagioclase (+– hornblende) phyric dacite lava; may include some shallow intrusive bodies (Cdtld).*
- Cdsv — *Grey to green massive to bedded wacke, pebble conglomerate and laminated siltstone, with clasts of quartzite and chert. (Correlate of Western Volcano–Sedimentary Sequence, Southwell Subgroup and Cateena Group) (Cdsv).*
- Cdsvcs — *Siliciclastic granule–pebble conglomerate (Cdsvcs).*

— MOUNT READ VOLCANICS AND CORRELATES

MIDDLE CAMBRIAN

INTRUSIVE ROCKS

DEVONIAN

- Dgoh — *Dominantly equigranular to sparsely porphyritic fine–to medium–grained biotite +– hornblende phyric granite/adamellite (I type) (Housetop Granite) (Dgoh).*

PALAEOZOIC

MIDDLE CAMBRIAN

- €Cdald — *Massive plagioclase – hornblende phyric dioritic, andesitic and dacitic intrusives (Lobster Creek intrusives) (€Cdald).*

— MOUNT READ VOLCANICS

MINERALISATION

PALAEOZOIC — DEVONIAN

- Dm — *Magnetite skarn (Dm).*

Geological boundary – position accurate or approximate.
Geological boundary – inferred.
Fault – position accurate or approximate.
Fault – concealed.
Lineament viable in airborne magnetic data.
(White line) *Limit of mapping of sub–unit within undifferentiated rock unit.*

Strike and dip of bedding, right way up.
Strike and dip of bedding, facing unknown.
Strike and dip of bedding of compositional layering.
Strike and dip of primary igneous banding or platy alignment, and schlieren in granitic rocks.
Strike of vertical igneous banding or platy alignment, and schlieren in granitic rocks.
Strike and dip of cleavage of unspecified type and relative age.
Strike of vertical cleavage of unspecified type and relative age.
Strike and dip of cleavage, relative local age S1.
Strike of vertical cleavage, relative local age S1.
Strike and dip of cleavage, relative local age S3.
Strike of vertical cleavage, relative local age S3.
Strike and dip of cleavage, relative local age S4.
Strike of vertical cleavage, relative local age S4.
Trend and plunge of minor fold hinge line, relative local age F1, with vertical axial surface.
Trend and plunge of minor fold hinge line, relative local age F3.
Trend of horizontal minor fold hinge line, relative local age F3.
Trend and plunge of minor fold hinge line, relative local age F4.
Trend and plunge of minor fold hinge line, relative local age F4, with dip and dip direction of axial surface.
Field station for adjacent readings on map.
Notable small outcrop with rock unit indicated.
Fossil location.
Mineral deposit location – hardrock — *Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.*
Mineral deposit location – alluvial
Construction materials location — *Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.*

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Compiled by M.J. Vicary, 2004 as part of the Western Tasmanian Regional Minerals Program from the following sources (see Responsibility Diagram):

A Baillie, P.W; Williams, P.R; Seymour, D.B; Lennox, P.G. and Green, G.R. 1996. Geological atlas 1:50,000 series. Sheet 36 (8015N) St Valentines. Tasmania Department of Mines.

B Jennings, I.B; Burns, K.L; Mayne, S.J. and Robinson, R.G. 1959. Geological atlas 1 mile series. Zone 7 Sheet 37 Sheffield. Tasmania Department of Mines.

C McKeown, M.V. 1994. Review of the geology of the Kara area. Unpublished Report, McKeown Mining Pty Ltd, Tasmania Mines Limited. TCR 94-3587.

D Vicary, M.J. 1994. Exploration Licence No. 42/92 Loongana Annual Report May 1993 - May 1994. Unpublished Report, RGC Exploration Pty Ltd. TCR 94-3565.

E Vicary, M.J. 1995. Exploration Licence No. 42/92 Loongana Annual Report May 1993 - May 1995. Unpublished Report, RGC Exploration Pty Ltd. TCR 95-3728.

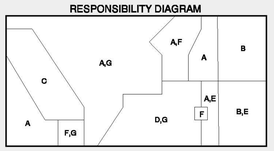
F Corbett, K.D. 2003. Bedrock geological map of the Cue River - Sheffield area. North West Tasmania. Mineral Resources Tasmania.

G Air photograph and WTRMP geophysical data interpretation by M. Vicary.

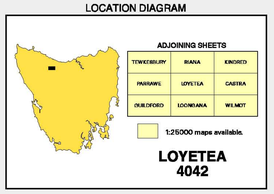
Digital base information from Information and Land Services Division, Department of Primary Industries, Water and Environment.

Map produced by the Data Management Branch of Mineral Resources Tasmania using G.I.S. software.
AGD66 - AMG Zone 55. Contour interval: 20 metres.

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



Data correct & plotfile generated: 20-APR-2005

WARNING: INKS ARE LIGHT SENSITIVE