С	Çî Cq	W	Wg	Wq
A	Ac Act	Aq	L	

Colluvial units

- Unconsolidated to partly consolidated, weakly cemented and compacted proximal mass-wasting deposits in a silt and sand matrix; includes ferruginous deposits
- Cf Ferruginous rubble and scree, unconsolidated
- Predominantly quartz-rich silt, sand, and gravel, derived from quartz veins and quartz-rich rock Cq

Sheetwash units

Unassigned

QUATERNARY

PHANEROZOIC

CAINOZOIC

- Sandy and clayey distal sheetwash and slope deposits, no clearly defined drainage
- Wg Quartzofeldspathic sand and silt
- Wq Predominantly quartz-rich silt, sand, and gravel, derived from quartz veins and quartz-rich rock

Alluvial units

- Silt, sand, and gravel in drainage channels and adjacent to floodplains; includes ferruginous deposits A
- Ac Clay-rich alluvium
- Swelling clay (gilgai) Acb
- Alluvium with abundant vein-quartz fragments Aq

Lacustrine unit

L

Unconsolidated, fine-grained deposits in claypans, perennial lakes, and swamps; low-lying areas with internal drainage; usually thickly vegetated

C1	Cla Cti Cti
A1	Ala Ala Ala Ala Ala

Colluvial units, third generation

- Quartz and rock fragments in an unconsolidated silt and sand matrix; includes ferruginous deposits C1
- Swelling clay (gilgai) and rock fragments, mostly developed over dolerite C1Cb
- C1f Unconsolidated ferruginous rubble and scree
- Quartz fragments in an unconsolidated silt and sand matrix, derived from quartz veins and quartzose rocks C1q
- C1ts_s Sandstone fragments in an unconsolidated silt and sand matrix

Alluvial units, third generation

- Unconsolidated silt, sand, and gravel in active drainage channels; includes ferruginous deposits A1
- Unconsolidated, mainly fine-grained deposits in drainage depressions Ald
- Silt, sand, and gravel as stream-bank deposits marginal to active channels, incised by present-day drainage $A1_k$
- Alc Clayey alluvium developed on alluvial flats
- Swelling clay (gilgai) developed on alluvial flats A1c_b
- Unconsolidated ferruginous silt, sand, and gravel Alf
- Altss Sandstone fragments in an unconsolidated silt and sand matrix



Colluvial unit, second generation

Quartz and rock fragments in a partly consolidated silt and sand matrix C2

Alluvial units, second generation

- A2 Partly consolidated silt, sand, and gravel; partly dissected by present-day drainage
- Swelling clay (gilgai), commonly developed near dolerite A2cb A2ts

Ss	Sandstone	fragments	in a	weakly	cemented	and	compacted	silt and	l sand	matrix
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C3			2	13				Ą,	Ĉ,	9	A	3ti	ł,	A,	ŝ,
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Colluvial unit, first generation

Quartz and rock fragments in a weakly cemented and compacted silt and sand matrix; deeply dissected valley-fill deposits C3

Alluvial units, first generation

- Weakly cemented and compacted silt, sand, and gravel; deeply dissected by present-day drainage АЗ
- Sand and gravel with ferruginous cement; deeply dissected by present-day drainage A3ti

Rf	Rg Rk	Rz
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Residual or relict units

- Ferruginous deposits, including lateritic, ferruginous, and manganiferous duricrust Rf
- Weathered quartzofeldspathic rock with locally derived sand and sandy clays Rg
- Calcrete, developed in and adjacent to alluvial channels; locally silicified; dissected by major present-day drainage Rk
- Rz Silcrete and brecciated siliceous caprock

- Quartz veins. zi
 - Ferruginous veins and linear alteration zones containing hematite-magnetite-chalcedony rock, saussiterized feldspar-quartzphlogopite-goethite-hematite-chalcedony rock, and quartz-sericite-phlogopite rock with both clay and opaque minerals



Dolerite dykes, sills, and small intrusions, of various ages; one suite dated at c. 755 Ma1; includes minor quartz diorite, tonalite, and biotite monzogranite; dashed where interpreted from aeromagnetic data

Edmundian Orogeny (1070-755 Ma²)



EDMUND BASIN

GASCOYNE COMPLEX