Listing by lithological affinities

Intrusive Rocks

Deposit Type	Approximate Synonyms	BC Profile #
GRANITOID INTRUSIONS		
(Iron oxide Cu-Au-U breccias and veins)	Olympic Dam-type Fe (Cu-U-Au), Kiruna-type	D07
(Polymetallic Sn veins)		H07
(Hydrothermal alteration clays-Al-Si)	Kaolin, Alunite, Siliceous, Pyrophyllite	H09
Felsic plutonic U		I15*
(Alkalic porphyry Cu-Au)		L03
Porphyry Cu + Mo + Au		L04
Porphyry Mo		L05
Porphyry Sn		L06
Porphyry W		L07
Climax-type Porphyry Mo		L08
(Rare element pegmatite - LCT family)	Zoned pegmatite	O01
(Rare element pegmatite - NYF family)	Nioblum-Yttrium-Fluorine pegmatite	O02
(Muscovite pegmatite)	Mica-bearing pegmatite	O03
(Feldspar-quartz pegmatite)	Barren pegmatite	O04*
Amethyst		Q04*
Dimension stone - granite		R03
Alaskite		R14
Coeval Volcanic Wallrocks		
(Epithermal Mn)		H06*
(Polymetallic veins Ag-Pb-Zn)		I05
Subvolcanic Cu-Ag-Au (As-Sb)	Enargite Au, Transitional Au-Ag	L01
Alkalic porphyry Cu-Au		L03
(Porphyry Cu + Mo + Au)		L04
(Porphyry Sn)		L06
Calcareous Wallrocks		
(Carbonate-hosted talc)	Dolomite-hosted talc	E08
Cu skarn		K01
(Zn-Pb skarn)		K02
(Fe skarn)		K03
(Au skarn)		K04
W skarn		K05
Sn skarn		K06
Mo skarn		K07
Garnet skarn		K08
(Wollastonite Skarn)		K09
Other Wallrocks		
(Polymetallic Sn veins)		H07

(Gold-quartz veins)	Mesothermal, saddle reefs	I01
(Polymetallic Sn veins)		I05
W Veins	Quartz-wolframite veins	I12*
Sn veins and griesens		I13*
Porphyry-related Au	Granitold Au, Porphyry Au	L09*
(Climax-type Porphyr Mo)		L08
Andalusite hornfels		P01
(Kyanite family)		P02
(Microcrystalline graphite)	"Amorphous" graphite	P03
Gem corundum in contact zones		Q09
ANORTHOSITE INTRUSIONS		
Anorthosite Ti-V		M04
Calcareous Wallrocks		
Wollastonite skarn		K09
MAFIC AND ULTRAMAFIC INTRUSIONS		
(Laterite Ni)		B02*
(Surficial placers)	Placer U-Au-PGE-Sn-diam-mag-garnet, gems	C01
(Buried-channel placers)		C02
(Gold-quartz veins)	Mesothermal, Motherlode	I01
(Silica-Hg carbonate)		I08
Magnesite veins and stockworks	Bone magnesite, Kraubah-type magnesite	I17
Podifrom chromite		M03
Zoned ultramafic Fe-Ti-V / PGE / Cr / Cu-Ni	Alaskan type Fe-Ti-V / PGE / Cr / Cu-Ni	M05
Asbestos	Serpentinite-hosted asbestos	M06
Serpentinite-hosted magnesite-talc		M07
Vermiculite		M08
Schist-hosted emerald deposits		Q07
Jade		Q01
Calcerous Wallrocks		
(Cu skarn)		K01
Fe skarn		K03
Au skarn		K04
Coeval Volcanic Rocks		
Basaltic subvolcanic Cu-Ni-PGE		M01*
Gabbroid Ni-Cu-PGE		M02
ALKALINE INTRUSIONS		
Au-Ag-Te veins		H08
Kimberlite-hosted diamonds	Diamond pipes	N02
Lamproite-hosted diamonds		N03
Gem corundum in alkalic rocks		Q10
Nepheline syenite		R13
Carbonates		
(Vermiculite)		M08
Carbonatite-hosted deposits		N01

Regionally Metamorphosed Rocks

Deposit Type	Approximate Synonyms	BC Profile #
Carbonate-hosted talc	Dolomite-hosted talc	E08
Carbonate-hosted, Non-sulphide Zn	Hypogene	E18
Gold-quartz veins	Mesothermal, saddle reefs	I01
Turbidite-hosted gold veins	Maguma type	I03
Iron formation-hosted gold		I04
U veins		I14
Unconformity U-Au-Ni	Vein-like type U	I16
(Asbestos)	Serpentinite-hosted asbestos	M06
Rare element pegmatite - LCT family	Zoned pegmatite (Lithium-Cesium-Tantalum)	O01
Rare element pegmatite - NYF family	Nioblum-Yttrium-Fluorine pegmatite	O02
Muscovite pegmatite	Mica-bearing pegmatite	O03
Feldspar-quartz pegmatite	Barren pegmatite	O04*
Kyanite family		P02
Microcrystalline graphite	"Amorphous" graphite	P03
Crystalline flake graphite		P04
Vein graphite	"Lump and chip graphite"	P05
Corundum in aluminous metasediments		P06
(Schist-hosted emerald deposits)		Q07
(Dimension stone - granite)	metamorphic gneiss and migmatite	R03
Dimensions stone - marble		R04
Silica-rich rocks	High-silica quartzite	R07
Flagstone		R08

Sedimentary Rocks

CHEMICAL SEDIMENTARY ROCKS

Deposit Type	Approximate Synonyms	BC Profile #
(Sediment-hosted Ni)		E16
Sedimentary Mn		F01
Palygorskite	Attapulgite	F05*
Phosphate, upwelling type		F07
Phosphate, warm-current type		F08
Superior Type Iron formation		F10*
Plays Evaporites		
Playas	Hydromagnesite, Na carbonate lake brines	F09*
Lacustrine		
Marl		B11*

Marine Evaporites		
Bedded gypsum / anhydrite	Marine evaporite gypsum	F02
Gypsum-hosted sulphur	Frasch sulphur	F03
Bedded clestite		F04*

CARBONATE ROCKS

Deposit Type	**Approximate Synonyms**	**BC Profile #**
No Associated Igneous Rocks		
Kipushi Cu-Pb-Zn	Carbonate-hosted Cu-Pb-Zn	E02
Carbonate-hosted talc	Dolomite-hosted talc	E08
Sparry magnesite	Veitsch-type, carbonate-hosted magnesite	E09
Mississippi Valley type barite		E10
Mississippi Valley type fluorite		E11
Mississippi Valley-type Pb-Zn	Carbonate-hosted Pb-Zn, Appalachian Zn	E12
Kootenay Arc type Pb-Zn		E13
Travertine	Tufa	H01
(Vein barite)		I10
(Polymetallic mantos Ag-Pb-Zn)	Polymetallic replacement deposits	J01
(Sn mantos and stockworks)	"Replacement Sn"	J02
(Mn veins and replacements)	"Replacement Mn"	J03*
Sulphide manto Au	Au-Ag sulphide mantos	J04
Limestone		R09
Dolomite		R10
Associated Igneous Rocks		
Carlin-type sediment-hosted Au-Ag	Carbonate-hosted Au-Ag	E03
Polymetallic mantos Ag-Pb-Zn	Polymetallic replacement deposits	J01
Sn mantos and stockworks	"Replacement Sn"	J02
Mn veins and replacements	"Replacement Mn"	J03*
(Cu skarn)		K01
Zn-Pb skarn		K02
(Fe skarn)		K03
(Au skarn)		K04
(W skarn)		K05
(Sn skarn)		K06
(Garnet skarn)		K08
(Wollastonite skarn)		K09

CLASSIC SEDIMENTARY ROCKS

Deposit Type	**Approximate Synonyms**	**BC Profile #**
Blogenic		
(Phosphate, upwelling type)		F07

(Phosphate, warm-current type)		F08
Clays		
(Bentonite)	Volcanic caly, Soap clay	E06
Sedimentary kaolin	"Secondary" kaolin	E07
Shale-Siltstone		
Lignitic coal	"Brown coal"	A02
Sub-bituminous coal	Thermal coal, lignite	A03
Bituminous coal	Coking coal, Thermal coal	A04
Anthractic coal	Stone coal	A05
(Carlin-type sediment-hosted Au-Ag)	Carbonate-hosted Au-Ag	E03
Sediment-hosted Cu	Sandstone Cu, Sediment-hosted stratiform Cu	E04
Sedex Zn-Pb-Ag-S	Sediment-hosted massive sulphides	E14
Blackbird massive sulphide Cu-Co	Sediment-hosted Cu-Co massive sulphide	E15
Sediment-hosted Ni		E16
Sediment-hosted barite	Bedded barite	E17
Besshi massive sulphide Zn-Cu-Pb	Kieslager	G04
Polymetallic veins Ag-Pb-Zn		I05
Cu-Ag quartz veins		I06
Vein barite		I10
(Barite-fluorite veins)		I11
Columbia-type emerald deposits		Q06
Cement shale		R01
Expanding shale		R02
Flagstone		R08
Sandstone		
(Sub-bituminous coal)	Thermal coal, Black lignite	A03
(Bituminous coal)	Coking coal, Thermal coal	A04
(Anthractic coal)	Stone coal	A05
(Volcaninc redbed copper)	Basaltic Cu	D03
Basal U		D04
Sandstone U	Roll Front U, Tabular U	D05*
(Iron oxide Cu-Au-U breccias and viens)	Olympic Dam-type Fe (Cu-U-Au)	D07
(Sediment-hosted Cu)	Sandstone Cu	E04
Sandstone Pb		E05
(Sedex Zn-Pb-Ag-S)		E14
(Blackbird massive sulphide Cu-Co)	Sediment-hosted Cu-Co massive sulphide	E15
Agate		Q03*
Australian-type opal	Sediment-hosted opal	Q08
Dimension stone -sandstone		R06
Silica sandstone	High-silica quarzite	R07
Flagstone		R08
Conglomerate and Sedimentary Breccia		
Paleoplacer U-Au-PGE-Sn-Ti-diam-mag-gar-zir	Quartz pebble conglomerate Au-U	C04*

(Sandstone U)	Roll front U, Tabular U	D05*

Unconsolidated Deposits

Deposit Type	Approximate Synonyms	BC Profile #
Peat		A01
Bog Fe, Mn, U, Cu, Au		B07*
Surficial U	"Calcrete U"	B08
Residual		
Laterite Fe	Gossan Fe	B01*
Laterite Ni		B02*
Laterite-Saprolite Au	Eluvial placers	B03*
Bauxite Al	Lateritic bauxite	B04*
Residual kaolin	Primary kaolin	B05
Karst-hosted Fe, Al, Pb-Zn		B09*
"Terra Rossa" Au-Ag	Residual Au; Precious metal gossans	B10
Alluvium		
Sand and Gravel		B12
Surficial placers	Placer Au-PGE-Sn-U diam-mag-gar-gems	C01
Buried-channel placers		C02
Marine		
Marine placers	Off-shore heavy mineral sediments	C03

Volcanic Rocks

SUBAERIAL VOLCANIC ROCKS - Felsic-Mafic

Deposit Type	Approximate Synonyms	BC Profile #
Mainly Volcanic Host		
(Open-system zeolite)		D01
Volcanic redbed copper	Basaltic Cu	D03
Volcanic-hosted U	"Epithermal" U, Volcanogenic U	D06
Iron oxide Cu-Au-U breccias and veins	Olympic Dam type Fe (Cu-U-Au), Kiruna type	D07
Hot spring Au-Ag		H03
Epithermal Au-Ag; high sulphidation	Acid-sulphate epithermal, Nansatsu-type	H04
Epithermal Au-Ag; low sulphidation	Adularia-sericite epithermal	H05
Epithermal Mn		H06*
Polymetallic Sn veins		H07
Hydrothermal alteration clays-Al-Si	Kaolin, Alunite, Siliceous cap, Purophyllite	H09
(Subvolcanic shear-hosted gold)		I02
(Cu-Ag quartz veins)		I06

Silica veins		I07*
Barite-fluorite veins		I11
Volcanic-hosted opal		Q11
Dimension stone - andesite		R05
Volcanic ash - pumice		R11
Perlite		R12
Interbedded or Underlying Sedimentary Rocks		
Almaden Hg		E01*
Hot spring Hg		H02
(Subvolcanic shear-hosted gold)		I02
Silica-Hg carbonate		I08
Stibnite veins and disseminations	Simple and disseminated Sb deposits	I09
(Barite-fluorite veins)		I11

SUBAQUEOUS VOLCANIC ROCKS - Felsic-Mafic

Deposit Type	**Approximate Synonyms**	**BC Profile #**
Mainly Volcanic Host		
Open-system zeolites		D01
Closed basin zeolites		D02
(Volcanic-hosted U)	"Epithermal" U, Volcanogenic U	D06
Bentonite	Volcanic clay, Soap clay	E06
Lacustrine diatomite	Diatomaceous earth, Kieselguhr	F06
Algoma Fe		G01
(Volcanogenic Mn)		G02
Volcanogenic anhydrite / gypsum		G03*
Noranda / Kuroko massive sulphide Cu-Pb-Zn		G06
Subaqueous hot springs Ag-Au		G07
Subvolcanic shear-hosted gold		I02
Rhodonite		Q02
Jasper		Q05*

MARINE - Mafic (including ophiolites)

Deposit Type	**Approximate Synonyms**	**BC Profile #**
(Blackbird massive sulphide Cu-Co)	Sediment-hosted Cu-Co massive sulphide	E15
Volcanogenic Mn		G02
(Besshi massive sulphide Zn-Cu-Pb)	Kieslanger	G04
Cyprus massive sulphide Cu		G05

VOLCANIC ROCKS - Alkalic

Deposit Type	**Approximate Synonyms**	**BC Profile #**
(Carbonatite-hosted deposits)		N01
Gem corundum hosted by alkalic rocks		Q10

** Note: All BC deposit profile(s) with an asterisk have no completed deposit profile. USGS deposit model(s) with an asterisk had no published model in the late 1990s.*