



## Division of Mines and Mineral Resources — Report 1991/15

# TASROK — A computer-based catalogue for Tasmanian rocks (Revision 4)

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## Abstract

The program suite described is designed to provide the basis of a unified index to the various rock and mineral collections held within Tasmanian institutions. Provision is included for searching the collections, adding to the data, and producing a comprehensive manual. This revision adds provision for locating entries duplicated in registered number or co-ordinates, and selectively deleting entries.

## INTRODUCTION

A number of organisations within Tasmania maintain rock collections, (e.g. Hydro-Electric Commission, Department of Mines, Tasmanian Museum and Art Gallery, University of Tasmania) but there is no easy way of locating all specimens of a particular type or from a particular area. At present the programs only provide for the four collections of the Department of Mines but are easily modified to include other collections (changes to ROCKADD, ROCKCHGE).

## SEARCHING THE DATA

The search phase is entered by typing ROCKSRCH. An entry will be retrieved only if the specified search options are matched. The list of standard abbreviations should be used when designing a search.

The program requests the following data:

- (i) Collection — one or more standard collection identifiers on a line, each identifier terminated by /. If a search by registered number is required only one collection identifier must be given. If this option is not required leave the line blank.  
  
e.g. M1/MM/ historic Mines Department rocks or Mines Department minerals.
- (ii) Starting registered number — a number valid for the collection selected. Leave blank to select all.
- (iii) Finishing registered number — a number valid for the collection selected. The prompt only appears if a starting registered number is given. Leave blank to select all entries after the starting registered number.

(iv) Generic type — one or more standard abbreviations on a line, each abbreviation terminated by /. If this option is not required leave the line blank.

(v) Sample name — details as for generic type, but no standard abbreviations.

(vi) Minerals — details as for generic type.

(vii) Modifiers — details as for generic type.

(viii) Age — details as for generic type but:

CO will search for PZO, PZC also  
 EC will search for PRP, PZC also  
 SD will search for PZS, PZD also  
 PC will search for PZP, PZF also  
 PT will search for MT, PZP also  
 C will search for Q, T also  
 T will search for T, TPL, TMI etc.  
 TPL will search for TPL, TPLE, TPLM, TPLL etc.  
 etc.

(ix) Rock unit code — details as for generic type

(x) Rock group code — this allows searching of characters 4 to 6 of the rock unit code.

(xi) Rock unit name — details as for generic type

(xii) State — details as for generic type but:  
 to search on AMG co-ordinates State must be 0 (Tasmania)  
 to search all entries on lat./long. State should be 8.

(xiii) Quadrangle or country — details as for generic type, but no standard abbreviations.

(xiv) Search by area — Y to search by area  
 — only prompted for if State is not blank

(a) If State is 0 (Tasmania):

The AMG co-ordinates of the western, eastern, southern and northern boundaries of the area to be searched are requested. Full six-figure co-ordinates

are required, with the assumed digit 5 on northings omitted.

(b) If State is 1-6,8,9:

The southern, northern, western and eastern boundaries are requested. The latitudes and longitudes are specified as on the input sheet.

- (xv) Locality — details as for generic type, but no standard abbreviations.
- (xvi) Collector — details as for generic type.
- (xvii) Starting year — the year of collection to start searching from. Leave blank to select all.
- (xviii) Finishing year — the prompt only appears if a starting year is given. Leave blank to select all entries collected after the starting year.
- (xix) Field number — one or more field numbers on a line, each terminated by ;. If this option is not required leave the line blank.
- (xx) Treatment — details as for generic type.
- (xxi) Keywords — details as for generic type, but no standard abbreviation.
- (xxii) Proceed with this search — type N if search is not to proceed.
- (xxiii) Do you want a screen listing? — type N if not required.  
Full or abbreviated listing? — F for full  
Print more entries on screen? — N for no more
- (xxiv) Search subset again? — type Y to search the currently selected subset of the data again.
- (xxv) Do you want a printout? — type Y if a printout is required.  
  
Full or abbreviated listing?  
— F for full  
— A for abbreviated  
— Appendix 2 shows sample outputs
- (xxvi) More searches? — type N to stop searching

**DATA BASE MAINTENANCE**

*Data coding*

Data are coded onto standard sheets (Appendix 1) using the current lists of standard abbreviations and the following notes. When a prompt terminates with a \*, entering a return will repeat the previous data value. A new string may also be entered or a backslash (\) will insert a blank. The previous value is displayed after the prompt.

- (a) Collection — 2 characters specifying the collection
- (b) Registration No. — up to 8 characters in the format for the collection

— the previous registered number will be incremented if this is left blank

- (c) Generic type\* — 5 characters in accordance with the standard list  
— leave blank if not known
- (d) Sample name\* — up to 12 characters  
— leave blank if not known
- (e) Minerals — up to three sets of three characters in accordance with the standard list  
— leave blank if not known
- (f) Modifiers — up to three sets of four characters in accordance with the standard list  
— leave blank if not known
- (g) Age\* — 4 characters in accordance with the standard list  
— leave blank if not known
- (h) Rock unit code\* — 5 characters in accordance with the standard list  
— leave blank if not known
- (i) Rock unit name\* — up to 10 characters in accordance with the standard list  
— leave blank if not known
- (j) State or overseas\* — 1 character in accordance with the standard list
- (k) Quadrangle or country\* — quadrangle number for Tasmania using 1:50 000 sheets if possible, e.g. 7916S  
— abbreviated country name
- (l) Co-ordinate\* — Lat./Long.\*  
— AMG co-ordinates in Tasmania e.g. 285200 347400  
— latitude and longitude elsewhere  
— one per line
- (m) Locality\* — up to 12 characters  
— leave blank if not known
- (n) Collector\* — 3 characters in accordance with the standard list  
— leave blank if not known
- (o) Year of collection\* — 4 digits
- (p) Field no. — up to 6 alpha-numeric characters  
— leave blank if not known
- (q) Treatment — up to 6 sets of two characters in accordance with the standard list.  
— leave blank if not known
- (r) Reference — up to 30 characters
- (s) Keywords — up to 24 characters
- (t) Comments — up to 24 characters

### *Data entry*

Data are input by typing ROCKADD. The data is entered in batches with only one collection in each batch. Other data requested are in accordance with the coding form. To terminate input, type END in response to the request for registered number. At the end of input a proof sheet is output and the standard abbreviations are automatically checked. Any errors in abbreviations are also printed.

### *Correction of new data*

Data are corrected before merging by typing ROCKCORR. This program prompts for collection and registered number, and allows all parts of the data sheet to be changed. Once again a proof sheet is output and the abbreviations are checked. Corrections may be made any number of times.

### *Data merging*

After checking and correction data are merged with the main file by typing ROCKMRGE.

### *Data sorting*

The data may be sorted into ascending registered number order within collections by typing ROCKSORT.

### *Data correction*

Corrections may be made to existing entries in the data base by typing ROCKUPD. This program works in much the same way as ROCKCORR.

### *Data searching*

The search phase is entered by typing ROCKSRCH.

### *Adding new abbreviations*

New abbreviations may be added by typing NEWTERM. The type of abbreviation is requested and then each new term is input as a 5 character abbreviation on one line followed by the full term, with a maximum of 58 characters, on the next line. Standard abbreviation types are COLECTOR, MODIFIER, TRTMENT, MINERAL and GENERIC, and are stored in files of the same name with the extension .REF. The AGE abbreviations can only be changed using the editor.

ROCKCODE (the rock unit codes and rock unit names) is changed using the editor by typing CHGECODE.

### *Listing standard abbreviations*

A list of standard abbreviations may be produced by typing GUIDER. A sample, and very incomplete, list is shown in Appendix 3.

### *Duplicate Data*

Duplicate entries may be listed on the printer by typing ROCKDUPE. A choice is then made between locating duplicate registered numbers, latitudes/longitudes (within 1 minute outside Tasmania) or co-ordinates (within 10 metres in Tasmania).

### *Deleting Entries*

Entries may be deleted by typing ROCKDEL. After prompting for the reference number all data relating to the selected entry is displayed. If satisfactory the entry may be deleted.

[30 July 1991]

# APPENDIX 1

## Data coding sheet

Collection

### TASROCK CATALOGUE COMPUTER ENTRY SHEET

1. Registration No.

2. Generic Type

3. Sample Name

4 Minerals

5 Modifiers

6 Age

7. Rock Unit Code

8 Rock Unit Name

9 State or Overseas

10. Quadrangle or Country

11. Co-ordinates  mE /      
Latitude, Longitude S  mN /

12. Locality

13. Collector

14. Year of Collection

15. Field No.

16. Treatment

17. Reference

18. Keywords

19. Comments

TASMANIAN ROCK CATALOGUE

COLN	REG NO	SAMPLE NAME	LOCALITY	ROCKNAME
M2	54-	1 QUARTZITE	2/474E/28	
M2	54-	9 SCHIST	R3/493/26N	
M2	54-	15 DOLERITE	BUTLERS GORG	
M2	55-	7 LAVA	BRANCH CK BH	

TASMANIAN ROCK AND MINERAL CATALOGUE

CN	REG NO	GENIC	SAMPLE NAME	MINERALS	MODIFIERS	AGE	CODE<-ROCK->NAME	S	QUAD	COORDINATES	LOCALITY	COL	YEAR
M2	54-	1	MESMQ QUARTZITE						0 8114N	0mE	0mN 2/474E/28	JME	1954
M2	54-	9	ME SCHIST	HEM SER QTZ					0 8114N	0mE	1.5' ABOVE CONTACT 0mN R3/493/26N	JME	1954
M2	54-	15	IPBDO DOLERITE					MJ	0 8113S	440000mE 320000mN	BUTLERS GORG		1954
M2	55-	7	IV LAVA						0 8215N	467800mE 437750mN	BRANCH CK BH TDH		1955
											BH3 245-254' ?SLATE		

HYBR  
LOG NO.1687

Sample outputs

APPENDIX 2

**APPENDIX 3**  
**TASROK user guide**

TASMANIAN ROCK CATALOGUE  
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GUIDE TO INFORMATION STORED

DATE 21 JUN 1988

INTRODUCTION  
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The abbreviations used in the Tasmanian rock catalogue (TASROK) are outlined in the following lists. Every attempt should be made to use the latest versions of the abbreviations. In the event of additional abbreviations being needed please contact the Mines Department to arrange an update and re-issue to participating groups.

Abbreviations of less than the maximum field length may need to be followed by a space to distinguish them from longer abbreviations.

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REGISTRATION NUMBERS

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	COLLECTION	FORMAT
HISTORIC MINES DEPT. ROCKS	M1	12345678
YEAR SERIES MINES DEPT. ROCKS	M2	86-12345
NEW SERIES MINES DEPT. ROCKS	M3	G1234567
MINES DEPT. MINERALS	MM	12345678

LOCATION DATA

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STATE	
0	TASMANIA
1	VICTORIA
2	NEW SOUTH WALES (INCLUDING A.C.T.)
3	QUEENSLAND
4	NORTHERN TERRITORY
5	WESTERN AUSTRALIA
6	SOUTH AUSTRALIA
9	OVERSEAS

FOR ALL AREAS OUTSIDE TASMANIA  
LATITUDE AND LONGITUDE ARE USED.

WITHIN TASMANIA THE AUSTRALIAN MAP GRID  
IS USED WITH SIX (6) DIGITS IN EACH  
COORDINATE. THE ASSUMED DIGIT 5 IN NORTHINGS  
IS OMITTED

10/29

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 GENERIC TYPE  
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CO	CONCENTRATES	CO	CONCENTRATES
ET	EXTRATERRESTRIAL (METEORITES & TEKTITES)	ET	EXTRATERRESTRIAL (METEORITES & TEKTITES)
ETM	EXTRATERRESTRIAL- METEORITES	ETM	EXTRATERRESTRIAL- METEORITES
ETT	EXTRATERRESTRIAL- TEKTITES	ETT	EXTRATERRESTRIAL- TEKTITES
I	IGNEOUS-	I	IGNEOUS-
IP	IGNEOUS- PLUTONIC & HYPABYSSAL	IP	IGNEOUS- PLUTONIC & HYPABYSSAL
IP	IGNEOUS- PLUTONIC- ACID	IP	IGNEOUS- PLUTONIC- ACID
IPAAD	IGNEOUS- PLUTONIC- ACID- ADAMELLITE	IPAAD	IGNEOUS- PLUTONIC- ACID- ADAMELLITE
IPAAP	IGNEOUS- PLUTONIC- ACID- APLITE	IPAAP	IGNEOUS- PLUTONIC- ACID- APLITE
IPAGD	IGNEOUS- PLUTONIC- ACID- GRANODIORITE	IPAGR	IGNEOUS- PLUTONIC- ACID- GRANITE
IPAGR	IGNEOUS- PLUTONIC- ACID- GRANITE	IPAGD	IGNEOUS- PLUTONIC- ACID- GRANODIORITE
IPAPE	IGNEOUS- PLUTONIC- ACID- PEGMATITE	IPAPE	IGNEOUS- PLUTONIC- ACID- PEGMATITE
IPAPO	IGNEOUS- PLUTONIC- ACID- PORPHYRY	IPAPO	IGNEOUS- PLUTONIC- ACID- PORPHYRY
IPB	IGNEOUS- PLUTONIC- BASIC	IPB	IGNEOUS- PLUTONIC- BASIC
IPBDO	IGNEOUS- PLUTONIC- BASIC- DOLERITE	IPBDO	IGNEOUS- PLUTONIC- BASIC- DOLERITE
IPBGA	IGNEOUS- PLUTONIC- BASIC- GABBRO	IPBGA	IGNEOUS- PLUTONIC- BASIC- GABBRO
IPBNO	IGNEOUS- PLUTONIC- BASIC- NORITE	IPBNO	IGNEOUS- PLUTONIC- BASIC- NORITE
IPBTO	IGNEOUS- PLUTONIC- BASIC- TONALITE	IPBTO	IGNEOUS- PLUTONIC- BASIC- TONALITE
IPI	IGNEOUS- PLUTONIC- INTERMEDIATE	IPI	IGNEOUS- PLUTONIC- INTERMEDIATE
IPIDI	IGNEOUS- PLUTONIC- INTERMEDIATE- DIORITE	IPIDI	IGNEOUS- PLUTONIC- INTERMEDIATE- DIORITE
IPILA	IGNEOUS- PLUTONIC- INTERMEDIATE- LAMPROPHYRE	IPILA	IGNEOUS- PLUTONIC- INTERMEDIATE- LAMPROPHYRE
IPIMO	IGNEOUS- PLUTONIC- INTERMEDIATE- MONZONITE	IPIMO	IGNEOUS- PLUTONIC- INTERMEDIATE- MONZONITE
IPIPO	IGNEOUS- PLUTONIC- INTERMEDIATE- PORPHYRY	IPIPO	IGNEOUS- PLUTONIC- INTERMEDIATE- PORPHYRY
IPISY	IGNEOUS- PLUTONIC- INTERMEDIATE- SYENITE	IPISY	IGNEOUS- PLUTONIC- INTERMEDIATE- SYENITE
IPU	IGNEOUS- PLUTONIC- ULTRABASIC	IPU	IGNEOUS- PLUTONIC- ULTRABASIC
IPUAN	IGNEOUS- PLUTONIC- ULTRABASIC- ANORTHOSITE	IPUAN	IGNEOUS- PLUTONIC- ULTRABASIC- ANORTHOSITE
IPUCR	IGNEOUS- PLUTONIC- ULTRABASIC- CHROMITITE	IPUCR	IGNEOUS- PLUTONIC- ULTRABASIC- CHROMITITE
IPUDU	IGNEOUS- PLUTONIC- ULTRABASIC- DUNITE	IPUDU	IGNEOUS- PLUTONIC- ULTRABASIC- DUNITE
IPUHA	IGNEOUS- PLUTONIC- ULTRABASIC- HARZBURGITE	IPUHA	IGNEOUS- PLUTONIC- ULTRABASIC- HARZBURGITE
IPUPE	IGNEOUS- PLUTONIC- ULTRABASIC- PERIDOTITE	IPUPE	IGNEOUS- PLUTONIC- ULTRABASIC- PERIDOTITE
IPUSE	IGNEOUS- PLUTONIC- ULTRABASIC- SERPENTINITE	IPUSE	IGNEOUS- PLUTONIC- ULTRABASIC- SERPENTINITE
IV	IGNEOUS- VOLCANIC & PYROCLASTIC	IVP	IGNEOUS- PYROCLASTIC
IVA	IGNEOUS- VOLCANIC- ACID	IVPAG	IGNEOUS- PYROCLASTIC- AGGLOMERATE
IVADA	IGNEOUS- VOLCANIC- ACID- DACITE	IVPAS	IGNEOUS- PYROCLASTIC- ASH
IVARD	IGNEOUS- VOLCANIC- ACID- RHYODACITE	IVPBR	IGNEOUS- PYROCLASTIC- BRECCIA
IVARH	IGNEOUS- VOLCANIC- ACID- RHYOLITE	IVPTU	IGNEOUS- PYROCLASTIC- TUFF
IVB	IGNEOUS- VOLCANIC- BASIC	IV	IGNEOUS- VOLCANIC & PYROCLASTIC
IVBBA	IGNEOUS- VOLCANIC- BASIC- BASALT	IVA	IGNEOUS- VOLCANIC- ACID
IVI	IGNEOUS- VOLCANIC- INTERMEDIATE	IVADA	IGNEOUS- VOLCANIC- ACID- DACITE
IVIAN	IGNEOUS- VOLCANIC- INTERMEDIATE- ANDESITE	IVARD	IGNEOUS- VOLCANIC- ACID- RHYODACITE
IVP	IGNEOUS- PYROCLASTIC	IVARH	IGNEOUS- VOLCANIC- ACID- RHYOLITE
IVPAG	IGNEOUS- PYROCLASTIC- AGGLOMERATE	IVB	IGNEOUS- VOLCANIC- BASIC
IVPAS	IGNEOUS- PYROCLASTIC- ASH	IVBBA	IGNEOUS- VOLCANIC- BASIC- BASALT
IVPBR	IGNEOUS- PYROCLASTIC- BRECCIA	IVI	IGNEOUS- VOLCANIC- INTERMEDIATE
IVPTU	IGNEOUS- PYROCLASTIC- TUFF	IVIAN	IGNEOUS- VOLCANIC- INTERMEDIATE- ANDESITE
IVU	IGNEOUS- VOLCANIC- ULTRABASIC	IVU	IGNEOUS- VOLCANIC- ULTRABASIC
ME	METAMORPHIC-	ME	METAMORPHIC-
MEGN	METAMORPHIC- GNEISS	MEGN	METAMORPHIC- GNEISS
MEGR	METAMORPHIC- GRANULITE	MEGR	METAMORPHIC- GRANULITE
MEI	METAMORPHIC- METAIGNEOUS	MEI	METAMORPHIC- METAIGNEOUS
MEIA	METAMORPHIC- METAIGNEOUS- AMPHIBOLITE	MEIA	METAMORPHIC- METAIGNEOUS- AMPHIBOLITE
MEIEC	METAMORPHIC- METAIGNEOUS- ECLOGITE	MEIEC	METAMORPHIC- METAIGNEOUS- ECLOGITE
MEIEP	METAMORPHIC- METAIGNEOUS- EPIDOSITE	MEIEP	METAMORPHIC- METAIGNEOUS- EPIDOSITE
MEISE	METAMORPHIC- METAIGNEOUS- SERPENTINITE	MEISE	METAMORPHIC- METAIGNEOUS- SERPENTINITE

## GENERIC TYPE

MEMI	METAMORPHIC- MIGMATITE		MES	METAMORPHIC- METASEDIMENTARY
MEMY	METAMORPHIC- MYLONITE & FAULT BRECCIA		MESHF	METAMORPHIC- METASEDIMENTARY- HORNFELS
MES	METAMORPHIC- METASEDIMENTARY		MESMA	METAMORPHIC- METASEDIMENTARY- MARBLE
MESCH	METAMORPHIC- SCHIST		MESMQ	METAMORPHIC- METASEDIMENTARY- METAQUARTZITE
MESHF	METAMORPHIC- METASEDIMENTARY- HORNFELS		MESPH	METAMORPHIC- METASEDIMENTARY- PHYLLITE
MESMA	METAMORPHIC- METASEDIMENTARY- MARBLE		MESSK	METAMORPHIC- METASEDIMENTARY- SKARN
MESMQ	METAMORPHIC- METASEDIMENTARY- METAQUARTZITE		MESSL	METAMORPHIC- METASEDIMENTARY- SLATE
MESPH	METAMORPHIC- METASEDIMENTARY- PHYLLITE		MEMI	METAMORPHIC- MIGMATITE
MESSK	METAMORPHIC- METASEDIMENTARY- SKARN		MEMY	METAMORPHIC- MYLONITE & FAULT BRECCIA
MESSL	METAMORPHIC- METASEDIMENTARY- SLATE		MESCH	METAMORPHIC- SCHIST
ML	MINERAL		ML	MINERAL
MLN	MINERAL- NONSILICATE		MLN	MINERAL- NONSILICATE
MLNC	MINERAL- NONSILICATE- CARBONATES		MLNC	MINERAL- NONSILICATE- CARBONATES
MLNN	MINERAL- NONSILICATE- NATIVE ELEMENTS		MLNN	MINERAL- NONSILICATE- NATIVE ELEMENTS
MLNO	MINERAL- NONSILICATE- OXIDES, HYDROXIDES & HALIDES		MLNO	MINERAL- NONSILICATE- OXIDES, HYDROXIDES & HALIDES
MLNP	MINERAL- NONSILICATE- PHOSPHATES, SULPHATES, ETC.		MLNP	MINERAL- NONSILICATE- PHOSPHATES, SULPHATES, ETC.
MLNS	MINERAL- NONSILICATE- SULPHIDES & SULPHOSALTS		MLNS	MINERAL- NONSILICATE- SULPHIDES & SULPHOSALTS
MLS	MINERAL- SILICATE		MLS	MINERAL- SILICATE
MLSC	MINERAL- SILICATE- CYCLOSILICATES		MLSC	MINERAL- SILICATE- CYCLOSILICATES
MLSCT	MINERAL- SILICATE- CYCLOSILICATES- TOURMALINE		MLSCT	MINERAL- SILICATE- CYCLOSILICATES- TOURMALINE
MLS1	MINERAL- SILICATE- INOSILICATES		MLS1	MINERAL- SILICATE- INOSILICATES
MLSIA	MINERAL- SILICATE- INOSILICATES- AMPHIBOLES		MLSIA	MINERAL- SILICATE- INOSILICATES- AMPHIBOLES
MLSID	MINERAL- SILICATE- INOSILICATES- PYROXENIDS		MLSIP	MINERAL- SILICATE- INOSILICATES- PYROXENES
MLSIP	MINERAL- SILICATE- INOSILICATES- PYROXENES		MLSID	MINERAL- SILICATE- INOSILICATES- PYROXENIDS
MLSN	MINERAL- SILICATE- NESOSILICATES		MLSN	MINERAL- SILICATE- NESOSILICATES
MLSNG	MINERAL- SILICATE- NESOSILICATES- GARNETS		MLSNG	MINERAL- SILICATE- NESOSILICATES- GARNETS
MLSP	MINERAL- SILICATE- PHYLLOSILICATES		MLSP	MINERAL- SILICATE- PHYLLOSILICATES
MLSPM	MINERAL- SILICATE- PHYLLOSILICATES- MICAS		MLSPT	MINERAL- SILICATE- PHYLLOSILICATES- CHLORITES
MLSPT	MINERAL- SILICATE- PHYLLOSILICATES- CHLORITES		MLSPY	MINERAL- SILICATE- PHYLLOSILICATES- CLAYS
MLSPY	MINERAL- SILICATE- PHYLLOSILICATES- CLAYS		MLSPM	MINERAL- SILICATE- PHYLLOSILICATES- MICAS
MLSS	MINERAL- SILICATE- SOROSILICATES		MLSS	MINERAL- SILICATE- SOROSILICATES
MLST	MINERAL- SILICATE- TECTOSILICATES		MLST	MINERAL- SILICATE- TECTOSILICATES
MLSTD	MINERAL- SILICATE- TECTOSILICATES- FELDSPATHOIDS		MLSTF	MINERAL- SILICATE- TECTOSILICATES- FELDSPARS
MLSTF	MINERAL- SILICATE- TECTOSILICATES- FELDSPARS		MLSTD	MINERAL- SILICATE- TECTOSILICATES- FELDSPATHOIDS
MLSTZ	MINERAL- SILICATE- TECTOSILICATES- ZEOLITES		MLSTZ	MINERAL- SILICATE- TECTOSILICATES- ZEOLITES
OR	ORE & GOSSANS		OR	ORE & GOSSANS
ORG	ORE & GOSSANS- GOSSANS		ORG	ORE & GOSSANS- GOSSANS
ORN	ORE- NONSULPHIDE		ORN	ORE- NONSULPHIDE
ORNAU	ORE- NONSULPHIDE- GOLD		ORNAU	ORE- NONSULPHIDE- GOLD
ORNFE	ORE- NONSULPHIDE- IRON		ORNFE	ORE- NONSULPHIDE- IRON
ORNMN	ORE- NONSULPHIDE- MANGANESE		ORNMN	ORE- NONSULPHIDE- MANGANESE
ORNSN	ORE- NONSULPHIDE- TIN		ORNSN	ORE- NONSULPHIDE- TIN
ORNU	ORE- NONSULPHIDE- URANIUM		ORNW	ORE- NONSULPHIDE- TUNGSTEN
ORNW	ORE- NONSULPHIDE- TUNGSTEN		ORNU	ORE- NONSULPHIDE- URANIUM
ORS	ORE- SULPHIDE		ORS	ORE- SULPHIDE
ORSAU	ORE- SULPHIDE- GOLD		ORSCU	ORE- SULPHIDE- COPPER
ORSCU	ORE- SULPHIDE- COPPER		ORSAU	ORE- SULPHIDE- GOLD
ORSNI	ORE- SULPHIDE- NICKEL		ORSPB	ORE- SULPHIDE- LEAD
ORSPB	ORE- SULPHIDE- LEAD		ORSNI	ORE- SULPHIDE- NICKEL
ORSPY	ORE- SULPHIDE- PYRITE		ORSPY	ORE- SULPHIDE- PYRITE
ORSZN	ORE- SULPHIDE- ZINC		ORSZN	ORE- SULPHIDE- ZINC
S	SEDIMENTARY-		S	SEDIMENTARY-
SA	SEDIMENTARY- ALLUVIUM & UNCONSOLIDATED		SA	SEDIMENTARY- ALLUVIUM & UNCONSOLIDATED
SACL	SEDIMENTARY- ALLUVIUM & UNCONSOLIDATED- CLAY		SACL	SEDIMENTARY- ALLUVIUM & UNCONSOLIDATED- CLAY

## GENERIC TYPE

SAGR	SEDIMENTARY- ALLUVIUM & UNCONSOLIDATED- GRAVEL	SAGR	SEDIMENTARY- ALLUVIUM & UNCONSOLIDATED- GRAVEL
SASA	SEDIMENTARY- ALLUVIUM & UNCONSOLIDATED- SAND	SASA	SEDIMENTARY- ALLUVIUM & UNCONSOLIDATED- SAND
SASI	SEDIMENTARY- ALLUVIUM & UNCONSOLIDATED- SILT	SASI	SEDIMENTARY- ALLUVIUM & UNCONSOLIDATED- SILT
SC	SEDIMENTARY- CARBONATES & CHEMICAL SEDIMENTS	SCA	SEDIMENTARY- CARBONATES
SCA	SEDIMENTARY- CARBONATES	SC	SEDIMENTARY- CARBONATES & CHEMICAL SEDIMENTS
SCADO	SEDIMENTARY- CARBONATES- DOLOMITE	SCADO	SEDIMENTARY- CARBONATES- DOLOMITE
SCALI	SEDIMENTARY- CARBONATES- LIMESTONES	SCALI	SEDIMENTARY- CARBONATES- LIMESTONES
SCAMG	SEDIMENTARY- CARBONATES- MAGNESITE	SCAMG	SEDIMENTARY- CARBONATES- MAGNESITE
SCH	SEDIMENTARY- CHEMICAL SEDIMENTS	SCH	SEDIMENTARY- CHEMICAL SEDIMENTS
SCHCH	SEDIMENTARY- CHEMICAL SEDIMENTS- CHERT	SCHIF	SEDIMENTARY- CHEMICAL SEDIMENTS- BIF
SCHV	SEDIMENTARY- CHEMICAL SEDIMENTS- EVAPORITE	SCHCH	SEDIMENTARY- CHEMICAL SEDIMENTS- CHERT
SCHIF	SEDIMENTARY- CHEMICAL SEDIMENTS- BIF	SCHV	SEDIMENTARY- CHEMICAL SEDIMENTS- EVAPORITE
SG	SEDIMENTARY- GLACIOGENE	SG	SEDIMENTARY- GLACIOGENE
SGTL	SEDIMENTARY- GLACIOGENE- TILL	SGTL	SEDIMENTARY- GLACIOGENE- TILL
SGTLT	SEDIMENTARY- GLACIOGENE- TILLITE	SGTLT	SEDIMENTARY- GLACIOGENE- TILLITE
SO	SOIL	SS	SEDIMENTARY- SILICICLASTIC
SOA	SOIL- AEOLIANITE	SSA	SEDIMENTARY- SILICICLASTIC- ARENITE
SOB	SOIL- BAUXITE	SSAA	SEDIMENTARY- SILICICLASTIC- ARENITE- ARKOSE
SOC	SOIL- COLLUVIUM	SSAG	SEDIMENTARY- SILICICLASTIC- ARENITE- GREYWACKE
SOE	SOIL- ELUVIUM	SSAW	SEDIMENTARY- SILICICLASTIC- ARENITE- WACKE
SOF	SOIL- FERRICRETE/LATERITE	SSL	SEDIMENTARY- SILICICLASTIC- LUTITE-
SOS	SOIL- SILCRETE	SSLM	SEDIMENTARY- SILICICLASTIC- LUTITE- MUDSTONE
SS	SEDIMENTARY- SILICICLASTIC	SSLSH	SEDIMENTARY- SILICICLASTIC- LUTITE- SHALE
SSA	SEDIMENTARY- SILICICLASTIC- ARENITE	SSLSI	SEDIMENTARY- SILICICLASTIC- LUTITE- SILTSTONE
SSAA	SEDIMENTARY- SILICICLASTIC- ARENITE- ARKOSE	SSR	SEDIMENTARY- SILICICLASTIC- RUDITE
SSAG	SEDIMENTARY- SILICICLASTIC- ARENITE- GREYWACKE	SSRB	SEDIMENTARY- SILICICLASTIC- RUDITE- BRECCIA
SSAW	SEDIMENTARY- SILICICLASTIC- ARENITE- WACKE	SSRC	SEDIMENTARY- SILICICLASTIC- RUDITE- CONGLOMERATE
SSL	SEDIMENTARY- SILICICLASTIC- LUTITE-	SV	SEDIMENTARY- VOLCANICLASTIC
SSLM	SEDIMENTARY- SILICICLASTIC- LUTITE- MUDSTONE	SVT	SEDIMENTARY- VOLCANICLASTIC-TUFF
SSLSH	SEDIMENTARY- SILICICLASTIC- LUTITE- SHALE	SO	SOIL
SSLSI	SEDIMENTARY- SILICICLASTIC- LUTITE- SILTSTONE	SOA	SOIL- AEOLIANITE
SSR	SEDIMENTARY- SILICICLASTIC- RUDITE	SOB	SOIL- BAUXITE
SSRB	SEDIMENTARY- SILICICLASTIC- RUDITE- BRECCIA	SOC	SOIL- COLLUVIUM
SSRC	SEDIMENTARY- SILICICLASTIC- RUDITE- CONGLOMERATE	SOE	SOIL- ELUVIUM
SV	SEDIMENTARY- VOLCANICLASTIC	SOF	SOIL- FERRICRETE/LATERITE
SVT	SEDIMENTARY- VOLCANICLASTIC-TUFF	SOS	SOIL- SILCRETE
VE	VEGETATION & LITTER	VE	VEGETATION & LITTER
WA	WATER	WA	WATER

## MINERALS

AB	ALBITE		ACM	ACMITE
ACM	ACMITE		ACT	ACTINOLITE
ACT	ACTINOLITE		AGT	AEGIRINE-AUGITE
ADR	ANDRADITE		AK	AKERMANITE
AGT	AEGIRINE-AUGITE		AB	ALBITE
AK	AKERMANITE		ALN	ALLANITE
ALM	ALMANDINE		ALM	ALMANDINE
ALN	ALLANITE		AM	AMPHIBOLE (QV CLINO-, ORTHO-)
AM	AMPHIBOLE (QV CLINO-, ORTHO-)		ANL	ANALCITE (ANALCIME)
AN	ANORTHITE		ANT	ANATASE
AND	ANDALUSITE		AND	ANDALUSITE
ANH	ANHYDRITE		ADR	ANDRADITE
ANK	ANKERITE		ANH	ANHYDRITE
ANL	ANALCITE (ANALCIME)		ANK	ANKERITE
ANN	ANNITE		ANN	ANNITE
ANT	ANATASE		AN	ANORTHITE
AP	APATITE		ATH	ANTHOPHYLLITE
APO	APOPHYLLITE		ATG	ANTIGORITE
APY	ARSENOPYRITE		AP	APATITE
ARF	ARFVEDSONITE		APO	APOPHYLLITE
ARG	ARAGONITE		ARG	ARAGONITE
ATG	ANTIGORITE		ARF	ARFVEDSONITE
ATH	ANTHOPHYLLITE		APY	ARSENOPYRITE
AUG	AUGITE		AUG	AUGITE
AX	AXINITE		AX	AXINITE
BHM	BOEHMITE		BRT	BARITE
BN	BORNITE		BRL	BERYL
BRC	BRUCITE		BT	BIOTITE
BRK	BROOKITE		BHM	BOEHMITE
BRL	BERYL		BN	BORNITE
BRT	BARITE		BRK	BROOKITE
BST	BUSTAMITE		BRC	BRUCITE
BT	BIOTITE		BST	BUSTAMITE
CAL	CALCITE		CAL	CALCITE
CAM	CLINOAMPHIBOLE (CA)		CCN	CANCRINITE
CBZ	CHABAZITE		CRN	CARNEGIEITE
CC	CHALCOCITE		CST	CASSITERITE
CCL	CHRYSOCOLLA		CLS	CELESTITE
CCN	CANCRINITE		CBZ	CHABAZITE
CCP	CHALCOPYRITE		CC	CHALCOCITE
CEN	CLINOENSTATITE		CCP	CHALCOPYRITE
CFS	CLINOFERROSILITE		CHL	CHLORITE
CHL	CHLORITE		CLD	CHLORITOID
CHN	CHONDRODITE		CHN	CHONDRODITE
CHR	CHROMITE		CHR	CHROMITE
CHU	CLINOHUMITE		CCL	CHRYSOCOLLA
CLD	CHLORITOID		CTL	CHRYSOTILE
CLS	CELESTITE		CAM	CLINOAMPHIBOLE (CA)
CPX	CLINOPYROXENE (CA)		CEN	CLINOENSTATITE
CRD	CORDIERITE		CFS	CLINOFERROSILITE
CRN	CARNEGIEITE		CHU	CLINOHUMITE
CRN	CORUNDUM		CPX	CLINOPYROXENE (CA)
CRS	CRISTOBALLITE		CZO	CLINOZOISITE
CST	CASSITERITE		CRD	CORDIERITE

## MINERALS

CTL	CHRYSTILE		CRN	CORUNDUM
CUM	CUMMINGTONITE		CV	COVELLITE
CUP	CUPRITE		CRS	CRISTOBALLITE
CV	COVELLITE		CUM	CUMMINGTONITE
CZO	CLINOZOISITE		CUP	CUPRITE
DG	DIGINITE		DSP	DIASPORE
DI	DIOPSIDE		DG	DIGINITE
DOL	DOLOMITE		DI	DIOPSIDE
DRV	DRAVITE		DOL	DOLOMITE
DSP	DIASPORE		DRV	DRAVITE
ECK	ECKERMANNITE		ECK	ECKERMANNITE
ED	EDENITE		ED	EDENITE
ELB	ELBAITE		ELB	ELBAITE
EN	ENSTATITE (ORTHO)		EN	ENSTATITE (ORTHO)
EP	EPIDOTE		EP	EPIDOTE
FA	FAYALITE		FST	FASSITE
FAC	FERROACTINOLITE		FA	FAYALITE
FED	FERROEDENITE		FSP	FELDSPAR
FL	FLUORITE		FSD	FELDSPATHOID
FO	FORSTERITE		FAC	FERROACTINOLITE
FS	FERROSILITE (ORTHO)		FED	FERROEDENITE
FSD	FELDSPATHOID		FS	FERROSILITE (ORTHO)
FSP	FELDSPAR		FTS	FERROTSCHERMAKITE
FST	FASSITE		FL	FLUORITE
FTS	FERROTSCHERMAKITE		FO	FORSTERITE
GBS	GIBBSITE		GN	GALENA
GED	GEDRITE		GRT	GARNET
GH	GEHLENITE		GED	GEDRITE
GLN	GLAUCOPHANE		GH	GEHLENITE
GLT	GLAUCONITE		GBS	GIBBSITE
GN	GALENA		GLT	GLAUCONITE
GP	GYPSUM		GLN	GLAUCOPHANE
GR	GRAPHITE		GT	GOETHITE
GRS	GROSSULARITE		GR	GRAPHITE
GRT	GARNET		GRS	GROSSULARITE
GRU	GRUNERITE		GRU	GRUNERITE
GT	GOETHITE		GP	GYPSUM
HBL	HORNLENDE		HL	HALITE
HC	HERCYNITE		HS	HASTINGSITE
HD	HEDENBERGITE		HYN	HAUYNE
HEM	HEMATITE		HZ	HEAZLEWOODITE
HL	HALITE		HD	HEDENBERGITE
HS	HASTINGSITE		HEM	HEMATITE
HU	HUMITE		HC	HERCYNITE
HUL	HEULANDITE		HUL	HEULANDITE
HYN	HAUYNE		HBL	HORNLENDE
HZ	HEAZLEWOODITE		HU	HUMITE
ILL	ILLITE		ILL	ILLITE
ILM	ILMENITE		ILM	ILMENITE
JD	JADEITE		JD	JADEITE
JH	JOHANNSENITE		JH	JOHANNSENITE
KFS	K FELDSPAR		KFS	K FELDSPAR
KLN	KAOLINITE		KRS	KAERSUTITE
KLS	KALSILITE		KLS	KALSILITE

## MINERALS

KRN	KORNERUPINE		KLN	KAOLINITE
KRS	KAERSUTITE		KTP	KATAPHORITE
KTP	KATAPHORITE		KRN	KORNERUPINE
KY	KYANITE		KY	KYANITE
LCT	LEUCITE		LMT	LAUMONTITE
LM	LIMONITE		LWS	LAWSONITE
LMT	LAUMONTITE		LPD	LEPIDOLITE
LO	LOELLINGITE		LCT	LEUCITE
LPD	LEPIDOLITE		LM	LIMONITE
LWS	LAWSONITE		LZ	LIZARDITE
LZ	LIZARDITE		LO	LOELLINGITE
MAG	MAGNETITE		MGH	MAGHEMITE
MC	MICROCLINE		MKT	MAGNESIOKATOPHORITE
MC	MARCASITE		MRB	MAGNESIORIEBECKITE
MEL	MELILITE		MGS	MAGNESITE
MGH	MAGHEMITE		MAG	MAGNETITE
MGS	MAGNESITE		MC	MARCASITE
MI	MICA		MRG	MARGARITE
MKT	MAGNESIOKATOPHORITE		MEL	MELILITE
MNT	MONTMORILLONITE		MI	MICA
MNZ	MONAZITE		MC	MICROCLINE
MO	MOLYBDENITE		MO	MOLYBDENITE
MRB	MAGNESIORIEBECKITE		MNZ	MONAZITE
MRG	MARGARITE		MTC	MONTICELLITE
MS	MUSCOVITE		MNT	MONTMORILLONITE
MTC	MONTICELLITE		MUL	MULLITE
MUL	MULLITE		MS	MUSCOVITE
NE	NEPHELINE		NTR	NATROLITE
NRB	NORBERGITE		NE	NEPHELINE
NSN	NOSEAN		NRB	NORBERGITE
NTR	NATROLITE		NSN	NOSEAN
OAM	ORTHOAMPHIBOLE		OL	OLIVINE
OL	OLIVINE		OMP	OMPHACITE
OMP	OMPHACITE		OPA	OPAL
OPA	OPAL		OAM	ORTHOAMPHIBOLE
OPX	ORTHOPYROXENE		OR	ORTHOCLASE
OR	ORTHOCLASE		OPX	ORTHOPYROXENE
PCT	PECTOLITE		PG	PARAGONITE
PEN	PROTOENSTATITE		PRG	PARGASITE
PER	PERICLASE		PCT	PECTOLITE
PG	PARAGONITE		PN	PENTLANDITE
PGT	PIGEONITE		PER	PERICLASE
PHL	PHLOGOPHITE		PRV	PEROVSKITE
PL	PLAGIOCLASE		PHL	PHLOGOPHITE
PMP	PUMPELLYITE		PGT	PIGEONITE
PN	PENTLANDITE		PL	PLAGIOCLASE
PO	PYRRHOTITE		PRH	PREHNITE
PRG	PARGASITE		PEN	PROTOENSTATITE
PRH	PREHNITE		PMP	PUMPELLYITE
PRL	PYROPHYLLITE		PY	PYRITE
PRP	PYROPE		PRP	PYROPE
PRV	PEROVSKITE		PRL	PYROPHYLLITE
PX	PYROXENE (QV CLINO-, ORTHO)		PX	PYROXENE (QV CLINO-, ORTHO)
PY	PYRITE		PO	PYRRHOTITE

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MINERALS  
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QTZ	QUARTZ		QTZ	QUARTZ
RBK	RIEBECKITE		RDS	RHODOCHROSITE
RDN	RHODONITE		RDN	RHODONITE
RDS	RHODOCHROSITE		RBK	RIEBECKITE
RT	RUTILE		RT	RUTILE
SA	SANIDINE		SA	SANIDINE
SCP	SCAPOLITE		SPR	SAPPHIRINE
SD	SIDERITE		SCP	SCAPOLITE
SDL	SODALITE		SRL	SCHORL
SER	SERICITE		SER	SERICITE
SIL	SILLIMANITE		SRP	SERPENTINE
SP	SPHALERITE		SD	SIDERITE
SPD	SPODUMENE		SIL	SILLIMANITE
SPL	SPINEL		SDL	SODALITE
SPN	SPHENE		SPS	SPESSARTINE
SPR	SAPPHIRINE		SP	SPHALERITE
SPS	SPESSARTINE		SPN	SPHENE
SRL	SCHORL		SPL	SPINEL
SRP	SERPENTINE		SPD	SPODUMENE
ST	STAUROLITE		ST	STAUROLITE
STB	STILBITE		STB	STILBITE
STP	STILPNOMELANE		STP	STILPNOMELANE
STR	STRONTIANITE		STR	STRONTIANITE
TLC	TALC		TLC	TALC
TMP	THOMPSONITE		TMP	THOMPSONITE
TOZ	TOPAZ		TTN	TITANITE (SPHENE)
TR	TREMOLITE		TOZ	TOPAZ
TRD	TRIDYMITE		TUR	TOURMALINE
TRO	TROLLITE		TR	TREMOLITE
TS	TSCHERMAKITE		TRD	TRIDYMITE
TTN	TITANITE (SPHENE)		TRO	TROLLITE
TUR	TOURMALINE		TS	TSCHERMAKITE
USO	ULVOSPINEL		USO	ULVOSPINEL
VES	VESUVIANITE		VRM	VERMICULITE
VIO	VIOLARITE		VES	VESUVIANITE
VRM	VERMICULITE		VIO	VIOLARITE
WF	WOLFRAMITE		WTH	WITHERITE
WO	WOLLASTONITE		WF	WOLFRAMITE
WTH	WITHERITE		WO	WOLLASTONITE
WUS	WUSTITE		WUS	WUSTITE
ZE	ZEOLITE		ZE	ZEOLITE
ZO	ZOISITE		ZRN	ZIRCON
ZRN	ZIRCON		ZO	ZOISITE

## MODIFIERS

ACIC	ACICULAR		ACIC	ACICULAR
ACID	ACIDIC		ACID	ACIDIC
AG	ARGENTIFEROUS		ALGA	ALGAL
AL	ALUMINOUS		ALK	ALKALINE
ALGA	ALGAL		ALLU	ALLUVIAL
ALK	ALKALINE		ALTD	ALTERED
ALLU	ALLUVIAL		AL	ALUMINOUS
ALTD	ALTERED		AMYG	AMYGDALOIDAL
AMYG	AMYGDALOIDAL		ANDE	ANDESITIC
ANDE	ANDESITIC		SB	ANTIMONOAN
AREN	ARENACEOUS		AREN	ARENACEOUS
ARGI	ARGILLACEOUS		AG	ARGENTIFEROUS
ARKO	ARKOSIC		ARGI	ARGILLACEOUS
AU	AURIFEROUS		ARKO	ARKOSIC
AUGE	AUGEN		AUGE	AUGEN
BA	BARIAN		AU	AURIFEROUS
BAKE	BAKED		BAKE	BAKED
BAND	BANDED		BAND	BANDED
BASI	BASIC		BA	BARIAN
BEDD	BEDDED		BSAL	BASAL
BI	BISMUTHIAN		BSTC	BASALTIC
BLAC	BLACK		BASI	BASIC
BLAD	BLADED		BEDD	BEDDED
BLUE	BLUE		BI	BISMUTHIAN
BREC	BRECCIATED		BLAC	BLACK
BROW	BROWN		BLAD	BLADED
BRYO	BRYOZOAN		BLUE	BLUE
BSAL	BASAL		BREC	BRECCIATED
BSTC	BASALTIC		BROW	BROWN
BUFF	BUFF		BRYO	BRYOZOAN
C	CARBONACEOUS		BUFF	BUFF
CA	CALCIAN		CASI	CALC-SILICATE
CALC	CALCAREOUS		CALC	CALCAREOUS
CASI	CALC-SILICATE		CA	CALCIAN
CGND	COARSE GRAINED		C	CARBONACEOUS
CHCD	CHALCEDONIC		CO3	CARBONATED
CHER	CHERTY		CHCD	CHALCEDONIC
CLAS	CLASTIC		CHER	CHERTY
CLAY	CLAYEY		CR	CHROMIAN
CLLS	COLOURLESS		CLAS	CLASTIC
CO	COBALTIAN		CLAY	CLAYEY
CO3	CARBONATED		CGND	COARSE GRAINED
COLL	COLLOFORM		CO	COBALTIAN
COLM	COLUMNAR		COLL	COLLOFORM
CONG	CONGLOMERATIC		CLLS	COLOURLESS
CR	CHROMIAN		COLM	COLUMNAR
CREM	CREAM		CONG	CONGLOMERATIC
CREN	CRENULATED		CREM	CREAM
CRIN	CRINOIDAL		CREN	CRENULATED
CRYP	CRYPTOCRYSTALLINE		CRIN	CRINOIDAL
CRYS	CRYSTALLINE		XBED	CROSSBEDDED
CU	CUPRIFEROUS/CUPRIAN		CRYP	CRYPTOCRYSTALLINE
DACI	DACITIC		CRYS	CRYSTALLINE
DEND	DENDRITIC		CU	CUPRIFEROUS/CUPRIAN

## MODIFIERS

DEVI	DEVITRIFIED	DACI	DACITIC
DRUS	DRUSY	DEND	DENDRITIC
EPIC	EPICLASTIC	DEVI	DEVITRIFIED
FE	FERROAN/FERRIC/FERRUGINOUS, ETC	DRUS	DRUSY
FELS	FELSITIC	EPIC	EPICLASTIC
FENE	FENESTRAL	FELS	FELSITIC
FGND	FINE GRAINED	FENE	FENESTRAL
FIBR	FIBROUS	FE	FERROAN/FERRIC/FERRUGINOUS, ETC
FOLI	FOLIATED	FIBR	FIBROUS
FORA	FORAMENIFERAL	FGND	FINE GRAINED
FOSS	FOSSILIFEROUS	FOLI	FOLIATED
FRIA	FRIABLE	FORA	FORAMENIFERAL
GEOD	GEODE	FOSS	FOSSILIFEROUS
GLAS	GLASSY	FRIA	FRIABLE
GLOM	GLOMEROPORPHYRITIC	GEOD	GEODE
GNDI	GRANODIORITIC	GLAS	GLASSY
GNEI	GNEISSIC	GLOM	GLOMEROPORPHYRITIC
GPHC	GRAPHIC	GNEI	GNEISSIC
GPHY	GRANOPHYRIC	GRAD	GRADED
GRAD	GRADED	GRNT	GRANITIC
GREE	GREEN	GNDI	GRANODIORITIC
GREI	GREISENISED	GPHY	GRANOPHYRIC
GREY	GREY	GRNL	GRANULAR
GRIT	GRITTY	GPHC	GRAPHIC
GRNL	GRANULAR	GREE	GREEN
GRNT	GRANITIC	GREI	GREISENISED
HFLS	HORNFELSE	GREY	GREY
HYBR	HYBRID	GRIT	GRITTY
IGNI	IGNIMBRITIC	HFLS	HORNFELSE
INDU	INDURATED	HYBR	HYBRID
INFM	INTRAFORMATIONAL	IGNI	IGNIMBRITIC
INTG	INTERGRANULAR	INDU	INDURATED
INTM	INTERMEDIATE	INTG	INTERGRANULAR
K	POTASSIC	INTM	INTERMEDIATE
KNOT	KNOTTED	INFM	INTRAFORMATIONAL
LAPI	LAPILLI	KNOT	KNOTTED
LEUC	LEUCOCRATIC	LAPI	LAPILLI
LITH	LITHIFIED	LEUC	LEUCOCRATIC
LTHC	LITHIC	LTHC	LITHIC
MAFI	MAFIC	LITH	LITHIFIED
MARO	MAROON	MAFI	MAFIC
MASS	MASSIVE	MG	MAGNESIAN
MELA	MELANOCRATIC	MN	MANGANOAN/MANGANIFEROUS
META	META	MARO	MAROON
MG	MAGNESIAN	MASS	MASSIVE
MGND	MEDIUM GRAINED	MGND	MEDIUM GRAINED
MIAR	MIAROLITIC	MELA	MELANOCRATIC
MICR	MICRO-	META	META
MN	MANGANOAN/MANGANIFEROUS	MIAR	MIAROLITIC
MSRT	MODERATELY SORTED	MICR	MICRO-
NI	NICKELIFEROUS	MSRT	MODERATELY SORTED
NODU	NODULAR	NI	NICKELIFEROUS
OOLI	OOLITIC	NODU	NODULAR
OPAQ	OPAQUE	OOLI	OOLITIC

## MODIFIERS

ORAN	ORANGE	OPAQ	OPAQUE
P	PHOSPHATIC/PHOSPHORIAN	ORAN	ORANGE
PB	PLUMBIAN	PEBB	PEBBLY
PBST	PORPHYROBLASTIC	PEGM	PEGMATITIC
PEBB	PEBBLY	PELI	PELITIC
PEGM	PEGMATITIC	PERT	PERTHITIC
PELI	PELITIC	P	PHOSPHATIC/PHOSPHORIAN
PERT	PERTHITIC	PHYL	PHYLLITIC
PHYL	PHYLLITIC	PHYR	PHYRIC
PHYR	PHYRIC	PICR	PICRITIC
PICR	PICRITIC	PILL	PILLOW
PILL	PILLOW	PINK	PINK
PINK	PINK	PB	PLUMBIAN
PORP	PORPHYRITIC	PSRT	POORLY SORTED
PRIS	PRISMATIC	PORP	PORPHYRITIC
PSAM	PSAMMITIC	PBST	PORPHYROBLASTIC
PSEU	PSEUDOMORPH	K	POTASSIC
PSPE	PSAMMOPELITIC	PRIS	PRISMATIC
PSRT	POORLY SORTED	PSAM	PSAMMITIC
PUMI	PUMICEOUS	PSPE	PSAMMOPELITIC
PURP	PURPLE	PSEU	PSEUDOMORPH
QTZT	QUARTZITIC	PUMI	PUMICEOUS
RADI	RADIATING	PURP	PURPLE
RED	RED	QTZT	QUARTZITIC
REXD	RECRYSTALLISED	RADI	RADIATING
RHYO	RHYOLITIC	REXD	RECRYSTALLISED
RUDA	RUDACEOUS	RED	RED
SAND	SANDY	RHYO	RHYOLITIC
SB	ANTIMONOAN	RUDA	RUDACEOUS
SCHI	SCHISTOSE	SAND	SANDY
SCOR	SCORIACEOUS	SCHI	SCHISTOSE
SECO	SECONDARY	SCOR	SCORIACEOUS
SHAL	SHALEY	SECO	SECONDARY
SI	SILICEOUS	SHAL	SHALEY
SILT	SILTY	SI	SILICEOUS
SN	STANNIFEROUS	SILT	SILTY
SO4	SULPHATIC	SPHE	SPHERULITIC
SPHE	SPHERULITIC	SPIL	SPILITIC
SPIL	SPILITIC	SPOT	SPOTTED
SPOT	SPOTTED	STAL	STALACTITIC
STAL	STALACTITIC	SN	STANNIFEROUS
STRO	STROMATOLITIC	STRO	STROMATOLITIC
SX	SULPHIDIC	SO4	SULPHATIC
SYEN	SYENITIC	SX	SULPHIDIC
TABU	TABULAR	SYEN	SYENITIC
THOL	THOLEIITIC	TABU	TABULAR
TILL	TILLITIC	THOL	THOLEIITIC
TRAC	TRACHYITIC	TILL	TILLITIC
TUFF	TUFFACEOUS	TRAC	TRACHYITIC
TWIN	TWINNED	TUFF	TUFFACEOUS
U	URANIFEROUS	TWIN	TWINNED
URAL	URALITISED	URAL	URALITISED
VARV	VARVED	U	URANIFEROUS
VEIN	VEIN	VARV	VARVED

## MODIFIERS

VESI VESICULAR  
VITR VITRIC  
VOCL VOLCANICLASTIC  
VOLC VOLCANIC  
VUG VUGGY  
WELD WELDED  
WHIT WHITE  
WSRT WELL SORTED  
WTHD WEATHERED  
XBED CROSSBEDDED  
YELL YELLOW

| VEIN VEIN  
| VESI VESICULAR  
| VITR VITRIC  
| VOLC VOLCANIC  
| VOCL VOLCANICLASTIC  
| VUG VUGGY  
| WTHD WEATHERED  
| WELD WELDED  
| WSRT WELL SORTED  
| WHIT WHITE  
| YELL YELLOW

		AGE
		---
C	CAINOZOIC (UNDIFFERENTIATED)	
Q	-QUATERNARY (UNDIFFERENTIATED)	
QR	-RECENT	
QP	-PLEISTOCENE	
QPL		-LATE
QPM		-MIDDLE
QPE		-EARLY
T	-TERTIARY (UNDIFFERENTIATED)	
TPL	-PLIOCENE	
TPLL		-LATE
TPLM		-MIDDLE
TPLE		-EARLY
TMI	-MIOCENE	
TMIL		-LATE
TMIM		-MIDDLE
TMIE		-EARLY
TOL	-OLIGOCENE	
TOLL		-LATE
TOLM		-MIDDLE
TOLE		-EARLY
TEO	-EOCENE	
TEOL		-LATE
TEOM		-MIDDLE
TEOE		-EARLY
TPA	-PALAEOCENE	
TPAL		-LATE
TPAM		-MIDDLE
TPAE		-EARLY
M	MESOZOIC (UNDIFFERENTIATED)	
MC	-CRETACEOUS	
MCL		-LATE
MCM		-MIDDLE
MCE		-EARLY
MJ	-JURASSIC	
MJL		-LATE
MJM		-MIDDLE
MJE		-EARLY
MT	-TRIASSIC	
MTL		-LATE
MTM		-MIDDLE
MTE		-EARLY
PZ	PALAEOZOIC (UNDIFFERENTIATED)	
PZP	-PERMIAN	
PZPL		-LATE
PZPM		-MIDDLE
PZPE		-EARLY
PZF	-CARBONIFEROUS	
PZFL		-LATE
PZFM		-MIDDLE
PZFE		-EARLY
PZD	-DEVONIAN	
PZDL		-LATE
PZDM		-MIDDLE
PZDE		-EARLY

	AGE
	---
PZS	-SILURIAN
PZSL	-LATE
PZSM	-MIDDLE
PZSE	-EARLY
PZO	-ORDOVICIAN
PZOL	-LATE
PZOM	-MIDDLE
PZOE	-EARLY
PZC	-CAMBRIAN
PZCL	-LATE
PZCM	-MIDDLE
PZCE	-EARLY
PR	PRECAMBRIAN (UNDIFFERENTIATED)
PRP	-PROTEROZOIC
PRPL	-LATE
PRPM	-MIDDLE
PRPE	-EARLY
PRA	-ARCHAEAN
PT	PERMO-TRIASSIC
PC	PERMO-CARBONIFEROUS
SD	SILURO-DEVONIAN
CO	CAMBRO-ORDOVICIAN
EC	EOCAMBRIAN

## ROCK UNITS

D	DEVONIAN GRANITOIDS (MISCELLANEOUS)		D	DEVONIAN GRANITOIDS (MISCELLANEOUS)
DBT	DEVONIAN GRANITOIDS- BLUE TIER BATHOLITH		DBT	DEVONIAN GRANITOIDS- BLUE TIER BATHOLITH
DCB	DEVONIAN GRANITOIDS- COLES BAY GRANITE		DCB	DEVONIAN GRANITOIDS- COLES BAY GRANITE
DED	DEVONIAN GRANITOIDS- EDDYSTONE BATHOLITH		DED	DEVONIAN GRANITOIDS- EDDYSTONE BATHOLITH
DGT	DEVONIAN GRANITOIDS- GRANITE TOR		DGT	DEVONIAN GRANITOIDS- GRANITE TOR
DHE	DEVONIAN GRANITOIDS- HEEMSKIRK GRANITE		DHE	DEVONIAN GRANITOIDS- HEEMSKIRK GRANITE
DHO	DEVONIAN GRANITOIDS- HOUSETOP GRANITE		DHO	DEVONIAN GRANITOIDS- HOUSETOP GRANITE
DME	DEVONIAN GRANITOIDS- MEREDITH GRANITE		DME	DEVONIAN GRANITOIDS- MEREDITH GRANITE
DPI	DEVONIAN GRANITOIDS- PIEMAN GRANITE		DPI	DEVONIAN GRANITOIDS- PIEMAN GRANITE
DSC	DEVONIAN GRANITOIDS- SCOTTSDALE BATHOLITH		DSC	DEVONIAN GRANITOIDS- SCOTTSDALE BATHOLITH
E	PRECAMBRIAN SEQUENCES (MISCELLANEOUS)		MA	MATHINNA BEDS
EB	PRECAMBRIAN- BADGER HEAD REGION		MR	MOUNT READ VOLCANICS AND CORRELATES (UNDIFFERENTIATED)
ED	PRECAMBRIAN- DUNDAS TROUGH		MRG	MOUNT READ VOLCANICS CORRELATES- CAMBRIAN GRANITES
EDC	PRECAMBRIAN- DUNDAS TROUGH-CRIMSON CREEK FORMATION		MRP	MOUNT READ VOLCANICS CORRELATES- DUNDAS GROUP
EDS	PRECAMBRIAN- DUNDAS TROUGH-SUCCESS CREEK GROUP		MRI	MOUNT READ VOLCANICS CORRELATES- INTRUSIVE PORPHYRIES
EF	PRECAMBRIAN- FORTH REGION		MRI	MOUNT READ VOLCANICS CORRELATES- MAFIC-INTM. INTRUSIVES
EFF	PRECAMBRIAN- FORTH REGION-FORTH METAMORPHIC COMPLEX		MRP	MOUNT READ VOLCANICS CORRELATES- STICHT RANGE BEDS
EFU	PRECAMBRIAN- FORTH REGION-ULVERSTONE METAMORPHIC COMPLEX		MRC	MOUNT READ VOLCANICS- CENTRAL SEQUENCE (KING RIVER ASS.)
EJ	PRECAMBRIAN- JUBILEE REGION		MRF	MOUNT READ VOLCANICS- FARRELL SLATES
EK	PRECAMBRIAN- KING ISLAND REGION		MRM	MOUNT READ VOLCANICS- MURCHISON VOLCANICS
ER	PRECAMBRIAN- ROCKY CAPE REGION		MRT	MOUNT READ VOLCANICS- TYNDALL GROUP (FISH CK. ASS.)
ERA	PRECAMBRIAN- ROCKY CAPE REGION- ARTHUR METAMORPHIC COMPLEX		MRW	MOUNT READ VOLCANICS- WESTERN SEQUENCE (LYNCHFORD ASS.)
ERB	PRECAMBRIAN- ROCKY CAPE REGION- BURNIE FORMATION		P	PARMEENER SUPERGROUP
ERO	PRECAMBRIAN- ROCKY CAPE REGION- OONAH FORMATION		PL	PARMEENER SUPERGROUP-LOWER
ERR	PRECAMBRIAN- ROCKY CAPE REGION- ROCKY CAPE GROUP		PLF	PARMEENER SUPERGROUP-LOWER FRESHWATER SEQUENCE
ES	PRECAMBRIAN- SMITHTON BASIN		PLG	PARMEENER SUPERGROUP-LOWER GLACIOMARINE SEQUENCE
ET	PRECAMBRIAN- TYENNAN REGION		PU	PARMEENER SUPERGROUP-UPPER
ETD	PRECAMBRIAN- TYENNAN REGION-DOVE METAMORPHIC COMPLEX		PUF	PARMEENER SUPERGROUP-UPPER FRESHWATER SEQUENCE
ETS	PRECAMBRIAN- TYENNAN REGION-STRATHGORDON METAMORPHIC COMPLEX		PUG	PARMEENER SUPERGROUP-UPPER GLACIOMARINE SEQUENCE
MA	MATHINNA BEDS		E	PRECAMBRIAN SEQUENCES (MISCELLANEOUS)
MR	MOUNT READ VOLCANICS AND CORRELATES (UNDIFFERENTIATED)		EB	PRECAMBRIAN- BADGER HEAD REGION
MRC	MOUNT READ VOLCANICS- CENTRAL SEQUENCE (KING RIVER ASS.)		ED	PRECAMBRIAN- DUNDAS TROUGH
MRF	MOUNT READ VOLCANICS- FARRELL SLATES		EDC	PRECAMBRIAN- DUNDAS TROUGH-CRIMSON CREEK FORMATION
MRG	MOUNT READ VOLCANICS CORRELATES- CAMBRIAN GRANITES		EDS	PRECAMBRIAN- DUNDAS TROUGH-SUCCESS CREEK GROUP
MRI	MOUNT READ VOLCANICS CORRELATES- MAFIC-INTM. INTRUSIVES		EF	PRECAMBRIAN- FORTH REGION
MRI	MOUNT READ VOLCANICS CORRELATES- INTRUSIVE PORPHYRIES		EFF	PRECAMBRIAN- FORTH REGION-FORTH METAMORPHIC COMPLEX
MRM	MOUNT READ VOLCANICS- MURCHISON VOLCANICS		EFU	PRECAMBRIAN- FORTH REGION-ULVERSTONE METAMORPHIC COMPLEX
MRP	MOUNT READ VOLCANICS CORRELATES- DUNDAS GROUP		EJ	PRECAMBRIAN- JUBILEE REGION
MRP	MOUNT READ VOLCANICS CORRELATES- STICHT RANGE BEDS		EK	PRECAMBRIAN- KING ISLAND REGION
MRT	MOUNT READ VOLCANICS- TYNDALL GROUP (FISH CK. ASS.)		ER	PRECAMBRIAN- ROCKY CAPE REGION
MRW	MOUNT READ VOLCANICS- WESTERN SEQUENCE (LYNCHFORD ASS.)		ERA	PRECAMBRIAN- ROCKY CAPE REGION- ARTHUR METAMORPHIC COMPLEX
P	PARMEENER SUPERGROUP		ERB	PRECAMBRIAN- ROCKY CAPE REGION- BURNIE FORMATION
PL	PARMEENER SUPERGROUP-LOWER		ERO	PRECAMBRIAN- ROCKY CAPE REGION- OONAH FORMATION
PLF	PARMEENER SUPERGROUP-LOWER FRESHWATER SEQUENCE		ERR	PRECAMBRIAN- ROCKY CAPE REGION- ROCKY CAPE GROUP
PLG	PARMEENER SUPERGROUP-LOWER GLACIOMARINE SEQUENCE		ES	PRECAMBRIAN- SMITHTON BASIN
PU	PARMEENER SUPERGROUP-UPPER		ET	PRECAMBRIAN- TYENNAN REGION
PUF	PARMEENER SUPERGROUP-UPPER FRESHWATER SEQUENCE		ETD	PRECAMBRIAN- TYENNAN REGION-DOVE METAMORPHIC COMPLEX
PUG	PARMEENER SUPERGROUP-UPPER GLACIOMARINE SEQUENCE		ETS	PRECAMBRIAN- TYENNAN REGION-STRATHGORDON METAMORPHIC COMPLEX
W	WURAWINA SUPERGROUP		W	WURAWINA SUPERGROUP
WE	WURAWINA SUPERGROUP- ELDON GROUP		WE	WURAWINA SUPERGROUP- ELDON GROUP
WJ	WURAWINA SUPERGROUP- JUNEE GROUP		WJ	WURAWINA SUPERGROUP- JUNEE GROUP
WJD	WURAWINA SUPERGROUP- JUNEE GROUP- DENISON SUBGROUP		WJD	WURAWINA SUPERGROUP- JUNEE GROUP- DENISON SUBGROUP
WJG	WURAWINA SUPERGROUP- JUNEE GROUP- GORDON SUBGROUP		WJG	WURAWINA SUPERGROUP- JUNEE GROUP- GORDON SUBGROUP
WS	WURAWINA SUPERGROUP- SPERO BAY GROUP		WS	WURAWINA SUPERGROUP- SPERO BAY GROUP

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## COLLECTORS

AB	BRAVO, A.P.	FA	AHMAD, F.
ABG	GULLINE, A.B.	NA	AHMAD, N.
ACW	WATSON, A.C.	JJA	ALLCHIN, J.J.
AEP	PARSONS, A.E.	ELA	ARCHER, E.L.
AG	GOEDE, A.	CAB	BACON, C.A.
AH	HOOPER, A.	PWB	BAILLIE, P.W.B.
AHB	BLISSETT, A.H.	JBI	BAIRD, J.
AHS	SPRY, A.H.	WEB	BAKER, W.E.
AHV	VOISEY, A.H.	DMB	BANKS, D.M.
AJN	NOLDART, A.J.	MRB	BANKS, M.R.
ALT	TELFER, A.L.	HAB	BARTLETT, H.A.
AM	MCNEIL, A.	CMB	BARTON, C.M.
AMM	MCKENZIE, A.M.	RDB	BEATTIE, R.D.
AMR	REID, A.M.	RFB	BERRY, R.F.
APB	BRAND, A.P.	RBI	BEST, R.
AR	RAULT, A.	GJB	BLACKBURN, G.J.
AT1	THURSTANS, A.	FB	BLAKE, F.
ATW	WELLS, A.T.	AHB	BLISSETT, A.H.
AVB	BROWN, A.V.	JB2	BLITCHFIELD, J.
AWM	MCNEIL, A.W.	GB1	BOTTLEY, G.
BC	COLE, B.	RSB	BOTTRILL, R.S.
BDW	WELDON, B.D.	CB	BOULTER, C.A.
BEC	COX, B.E.	JB3	BRADLEY, J.
BF	FRENCH, B.	APB	BRAND, A.P.
BFG	GLENISTER, B.F.	AB	BRAVO, A.P.
BLD	DECHAINED, B.L.	RB2	BRIGGS, R.
BLT	TAYLOR, B.L.	EDB	BRILL, E.D.
BM	MARSHALL, B.	CJB	BROOKS, C.J.
CAB	BACON, C.A.	AVB	BROWN, A.V.
CB	BOULTER, C.A.	DB	BROWN, D.
CB3	BYRNE, C.	TAB	BROWN, T.A.
CEG	GEE, C.E.	JHB	BUCKLEY, J.H.
CFB	BURRETT, C.F.	KLB	BURNS, K.L.
CGG	GATEHOUSE, C.G.	CFB	BURRETT, C.F.
CJ	JONES, C.	CB3	BYRNE, C.
CJB	BROOKS, C.J.	CRC	CALVER, C.R.
CLH	LOFTUS HILLS, C.	MC	CAREY, M.
CMB	BARTON, C.M.	SWC	CAREY, S.W.
CMP	POWELL, C.MCA.	KEC	CASTER, K.E.
CPR	RAO, C.P.	RC	CASTLEDEN, R.
CRA	CRA EXPLORATION	NKC	CHICK, N.K.
CRC	CALVER, C.R.	MJC	CLARKE, M.J.
CS	SHARPLES, C.	JDC	COCKER, J.D.
DB	BROWN, D.	BC	COLE, B.
DBS	SEYMOUR, D.B.	JC1	COLLINS, J.
DCG	GREEN, D.C.	PLC	COLLINS, P.L.F.
DEL	LEAMAN, D.E.	HC	CONDER, H.
DFT	THOMAS, D.F.	JBC	CONKIN, J.B.
DH	HANNON, D.	EBC	CORBETT, E.B.
DHG	GREEN, D.H.	KDC	CORBETT, K.D.
DIG	GROVES, D.I.	JC2	COURT, J.
DJC	CULLEN, D.J.	BEC	COX, B.E.
DJJ	JENNINGS, D.J.	SFC	COX, S.F.
DJK	KENNEDY, D.J.	CRA	CRA EXPLORATION

## COLLECTORS

DJP	PATTERSON, D.J.	DJC	CULLEN, D.J.
DJS	SLOANE, D.J.	JKD	DAVIDSON, J.K.
DMB	BANKS, D.M.	BLD	DECHAINED, B.L.
DMD	DUNCAN, D.MCP.	DMR	DEPT. OF MAIN ROADS
DMG	GREEN, D.M.	MJD	DIX, M.J.
DMR	DEPT. OF MAIN ROADS	TD	DOE, T.
DT	THURLEY, D.	PD	DOMBROVSKIS, P.
DW	WOOLLEY, D.	RCD	DONALDSON, R.C.
EBC	CORBETT, E.B.	DMD	DUNCAN, D.MCP.
EBM	MCINTYRE, E.B.	PDE	ELLIS, P.D.
EDB	BRILL, E.D.	JME	ELLISTON, J.M.
EDJ	JACKSON, W.D.	JNE	ELLISTON, J.N.
ELA	ARCHER, E.L.	GBE	EVERARD, G.B.
EMS	SMITH, E.M.	JLE	EVERARD, J.L.
EW	WILLIAMS, E.	LE	EWINGTON, L.
EZ	EZ EXPLORATION	EZ	EZ EXPLORATION
FA	AHMAD, F.	RHF	FINDLAY, R.H.
FB	BLAKE, F.	KJC	FINUCANE, K.J.
FK	KRANTZ, F.	RJF	FORD, R.J.
FLS	SUTHERLAND, F.L.	SMF	FORSYTH, S.M.
GAW	WALLER, G.A.	BF	FRENCH, B.
GB1	BOTTLEY, G.	CGG	GATEHOUSE, C.G.
GBE	EVERARD, G.B.	CEG	GEE, C.E.
GCP	PAXTON, G.C.	RDG	GEE, R.D.
GEH	HALE, G.E.	PUB	GENERAL PUBLIC
GJB	BLACKBURN, G.J.	BFG	GLENISTER, B.F.
GL	LANE, G.	AG	GOEDE, A.
GPP	PIKE, G.P.	OGD	GOVT. DEPARTMENTS (OTHER THAN HEC, DMR)
GR1	RAWLEY, G.	DCG	GREEN, D.C.
GR2	ROBERTS, G.	DHG	GREEN, D.H.
GRG	GREEN, G.R.	DMG	GREEN, D.M.
GS	STEPHENS, G.	GRG	GREEN, G.R.
GU	URQUHART, G.	PLG	GREEN, P.L.
GV	VAN DER GEER, G.	THG	GREEN, T.H.
HAB	BARTLETT, H.A.	DIG	GROVES, D.I.
HC	CONDER, H.	ABG	GULLINE, A.B.
HEC	HYDRO-ELECTRIC COMMISSION	GEH	HALE, G.E.
HGK	KEID, H.G.W.	RJH	HALL, R.J.
HGT	TARGET, H.G.	DH	HANNON, D.
HMH	HARRIS, H.M.	HMH	HARRIS, H.M.
IBJ	JENNINGS, I.B.	QJH	HENDERSON, Q.J.
IHN	NAQVI, I.H.	AH	HOOPER, A.
IM	MCDUGALL, I.	JWH	HUDSPETH, J.W.
JB1	BAIRD, J.	TDH	HUGHES, T.D.
JB2	BLITCHFIELD, J.	HEC	HYDRO-ELECTRIC COMMISSION
JB3	BRADLEY, J.	RJ	JACK, R.
JBC	CONKIN, J.B.	EDJ	JACKSON, W.D.
JBJ	JAGO, J.B.	JBJ	JAGO, J.B.
JBM	MCFIE, J.B.	MCJ	JAGOE, M.C.
JC1	COLLINS, J.	DJJ	JENNINGS, D.J.
JC2	COURT, J.	IBJ	JENNINGS, I.B.
JDC	COCKER, J.D.	CJ	JONES, C.
JHB	BUCKLEY, J.H.	HGK	KEID, H.G.W.
JJA	ALLCHIN, J.J.	NK	KEMP, N.

## COLLECTORS

JKD	DAVIDSON, J.K.	DJK	KENNEDY, D.J.
JL	LUCKMAN, J.	MGK	KILE, M.G.
JLE	EVERARD, J.L.	PK	KOMYSHAN, P.
JM1	MAYNE, J.	FK	KRANTZ, F.
JM2	MCCLLENAGHAN, J.	GL	LANE, G.
JM3	MINCHEN, J.	RRL	LARGE, R.R.
JME	ELLISTON, J.M.	DEL	LEAMAN, D.E.
JNE	ELLISTON, J.N.	PJL	LEGGE, P.J.
JR	RANSOM, J.	PGL	LENNOX, P.J.
JT1	TALENT, J.A.	CLH	LOFTUS HILLS, C.
JT2	TOWNROW, J.A.	MJL	LONGMAN, M.J.
JV	VAN MOORT, J.	JL	LUCKMAN, J.
JW	WISHART, J.	MHL	LUDBROOK, M.H.
JWH	HUDSPETH, J.W.	BM	MARSHALL, B.
KDC	CORBETT, K.D.	RPM	MATHER, R.P.
KEC	CASTER, K.E.	WLM	MATTHEWS, W.L.
KJC	FINUCANE, K.J.	JM1	MAYNE, J.
KLB	BURNS, K.L.	JM2	MCCLLENAGHAN, J.
KOR	REID, K.O.	MPM	MCCLLENAGHAN, M.P.
LE	EWINGTON, L.	IM	MCDOUGALL, I.
LKW	WARD, L.K.	JBM	MCFIE, J.B.
LLM	WATERHOUSE, L.L.	EBM	MCINTYRE, E.B.
MBP	PHILLIP, M.B.	AMM	MCKENZIE, A.M.
MC	CAREY, M.	WNM	MCLEOD, W.N.
MCJ	JAGOE, M.C.	PM	MCMANUS, P.
MEC	MINING & EXPLOR'N CO'S (OTHER THAN CRA, EZ)	AM	MCNEIL, A.
MGK	KILE, M.G.	AWM	MCNEIL, A.W.
MHL	LUDBROOK, M.H.	RDM	MCNEIL, R.D.
MJC	CLARKE, M.J.	RM	MCSHANE, R.
MJD	DIX, M.J.	MOM	MICHAEL, M.O.
MJL	LONGMAN, M.J.	JM3	MINCHEN, J.
MJP	POLLINGTON, M.J.	MEC	MINING & EXPLOR'N CO'S (OTHER THAN CRA, EZ)
MLW	WADE, M.L.	WRM	MOORE, W.R.
MOM	MICHAEL, M.O.	IHN	NAQVI, I.H.
MPM	MCCLLENAGHAN, M.P.	ZN	NIGGLO, Z.
MR	RUBENACH, M.	AJN	NOLDART, A.J.
MRB	BANKS, M.R.	PBN	NYE, P.B.
MS1	SMYTHE, M.	AEP	PARSONS, A.E.
MS2	SOLOMON, M.	DJP	PATERSON, D.J.
MZS	STEFANSKIJ, M.Z.	GCP	PAXTON, G.C.
NA	AHMAD, N.	MBP	PHILLIP, M.B.
NJT	TURNER, N.J.	GPP	PIKE, G.P.
NK	KEMP, N.	RP	PITT, R.
NKC	CHICK, N.K.	WP	PITULEJ, W.
NS	SANDERS, N.	MJP	POLLINGTON, M.J.
NW	WHITE, N.	CMP	POWELL, C.MCA.
OGD	GOVT. DEPARTMENTS (OTHER THAN HEC, DMR)	PGQ	QUILTY, P.G.
PBN	NYE, P.B.	JR	RANSOM, J.
PCS	STEVENSON, P.C.	CPR	RAO, C.P.
PD	DOMBROVSKIS, P.	AR	RAULT, A.
PDE	ELLIS, P.D.	GR1	RAWLEY, G.
PFW	WILLIAMS, P.F.	AMR	REID, A.M.
PGL	LENNOX, P.J.	KOR	REID, K.O.
PGQ	QUILTY, P.G.	RBR	REID, R.B.

## COLLECTORS

PJL	LEGGE, P.J.	RGR	RICHARDSON, R.G.
PK	KOMYSHAN, P.	GR2	ROBERTS, G.
PLC	COLLINS, P.L.F.	PR	ROGERSON, P.
PLG	GREEN, P.L.	SMR	ROWE, S.M.
PM	MCMANUS, P.	MR	RUBENACH, M.
PR	ROGERSON, P.	PS	SABINE, P.
PS	SABINE, P.	NS	SANDERS, N.
PUB	GENERAL PUBLIC	TLS	SASSER, T.L.
PWB	BAILLIE, P.W.B.	DBS	SEYMOUR, D.B.
QJH	HENDERSON, Q.J.	CS	SHARPLES, C.
RB1	BEST, R.	DJS	SLOANE, D.J.
RB2	BRIGGS, R.	EMS	SMITH, E.M.
RBR	REID, R.B.	RES	SMITHURST, R.E.
RC	CASTLEDEN, R.	MS1	SMYTHE, M.
RCD	DONALDSON, R.C.	MS2	SOLOMON, M.
RDB	BEATTIE, R.D.	AHS	SPRY, A.H.
RDG	GEE, R.D.	MZS	STEFANSKIJ, M.Z.
RDM	MCNEIL, R.D.	GS	STEPHENS, G.
RES	SMITHURST, R.E.	PCS	STEVENSON, P.C.
RFB	BERRY, R.F.	TGS	SUMMONS, T.G.
RGR	RICHARDSON, R.G.	FLS	SUTHERLAND, F.L.
RHF	FINDLAY, R.H.	JT1	TALENT, J.A.
RJ	JACK, R.	HGT	TARGET, H.G.
RJF	FORD, R.J.	BLT	TAYLOR, B.L.
RJH	HALL, R.J.	ALT	TELFER, A.L.
RKW	WHYTE, R.K.	DFT	THOMAS, D.F.
RM	MCSHANE, R.	VMT	THREADER, V.M.
RP	PITT, R.	DT	THURLEY, D.
RPM	MATHER, R.P.	AT1	THURSTANS, A.
RRL	LARGE, R.R.	JT2	TOWNROW, J.A.
RSB	BOTTRILL, R.S.	NJT	TURNER, N.J.
RV	VARNE, R.	WHT	TWELVETREES, W.H.
SFC	COX, S.F.	GU	URQUHART, G.
SMF	FORSYTH, S.M.	GV	VAN DER GEER, G.
SMR	ROWE, S.M.	JV	VAN MOORT, J.
SWC	CAREY, S.W.	RV	VARNE, R.
TAB	BROWN, T.A.	AHV	VOISEY, A.H.
TD	DOE, T.	MLW	WADE, M.L.
TDH	HUGHES, T.D.	GAW	WALLER, G.A.
TGS	SUMMONS, T.G.	LKW	WARD, L.K.
THG	GREEN, T.H.	LLM	WATERHOUSE, L.L.
TLS	SASSER, T.L.	ACW	WATSON, A.C.
VMT	THREADER, V.M.	BDW	WELDON, B.D.
WEB	BAKER, W.E.	ATW	WELLS, A.T.
WHT	TWELVETREES, W.H.	NW	WHITE, N.
WLM	MATTHEWS, W.L.	RKW	WHYTE, R.K.
WNM	MCLEOD, W.N.	EW	WILLIAMS, E.
WP	PITULEJ, W.	PFW	WILLIAMS, P.F.
WRM	MOORE, W.R.	JW	WISHART, J.
ZN	NIGGLO, Z.	DW	WOOLLEY, D.

## TREATMENTS

AP	ACETATE PEEL		AP	ACETATE PEEL
DS	DISPLAY SPECIMEN		DS	DISPLAY SPECIMEN
FI	FLUID INCLUSION CHIP		FI	FLUID INCLUSION CHIP
GP	GEOPHYSICAL PROPERTIES		GP	GEOPHYSICAL PROPERTIES
IS	ISOTOPE STUDY		IS	ISOTOPE STUDY
MA	MISCELLANEOUS ANALYSES		MS	MINERAL SEPARATION
MD	MODAL ANALYSIS		MA	MISCELLANEOUS ANALYSES
MS	MINERAL SEPARATION		MD	MODAL ANALYSIS
PA	PROBE ANALYSIS		PL	PALAEONTOLOGY
PL	PALAEONTOLOGY		PN	PALYNOLOGY
PN	PALYNOLOGY		PS	POLISHED SECTION
PS	POLISHED SECTION		PT	POLISHED THIN SECTION
PT	POLISHED THIN SECTION		PA	PROBE ANALYSIS
RM	ROCK MECHANICS		RM	ROCK MECHANICS
SM	SOIL MECHANICS		SM	SOIL MECHANICS
TS	THIN SECTION		TS	THIN SECTION
WA	WATER ANALYSIS		WA	WATER ANALYSIS
WR	WHOLE ROCK ANALYSIS		WR	WHOLE ROCK ANALYSIS
XR	X-RAY DIFFRACTION		XR	X-RAY DIFFRACTION