

LITHOLOGY	AG_AAS	AS_AAS	AS_INAA	AU1_INAA	BA_AAS	BA_INAA	BI_AAS	BR_INAA	CD_AAS	CE_INAA	CO_AAS
alkaline volcanic rocks	788	786	871	871	140	871		871	140	871	788
alluvium, till											
andesitic volcanic rocks	848	823	623	623	445	623	289	623	501	623	848
argil,gwacke,wacke,congl,turb	1481	1132	1273	1273	288	1273	818	1273	1100	1273	1481
argillite, siltstone	20	20	20	20		20		20		20	20
basaltic volcanic rocks	1793	1424	1362	1362	859	1362	189	1362	1015	1362	1793
bimodal volcanic rocks	83	19	86	86		86	19	86	19	86	83
calc-alkaline volcanic rocks	1448	1421	724	724	843	724	102	724	946	724	1448
calcsilicate metamorphic rx	150	53	131	131	19	131		131	19	131	150
chert,sil argil,siliciclstc r	655	187	842	842	94	842	64	842	157	842	655
coarse clastic sed rocks	1641	1268	1452	1452	477	1452	263	1452	728	1452	1641
conglom + crse clastic sed rx	228	206	163	163	93	163	60	163	153	163	228
conglom+sst+siltst+mudst+coal	3	3	3	3		3	3	3	3	3	3
crse volxstic+pyroxstic vlc r	54	54	37	37	22	37	8	37	24	37	54
dacitic volcanic rocks	76	76	76	76	34	76	44	76	73	76	76
dioritic to gabbroic intr rx	773	722	767	767	340	767	521	767	577	767	773
dolomitic carbonate rocks	628	465	586	586	51	586	398	586	449	586	628
eclogite/mantle tectonite	8		8	8		8		8		8	8
evaporite	1	1	1	1		1	1	1	1	1	1
feldspar porphyritic intr rx	35	35	10	10	25	10	2	10	27	10	35
fine clastic sedimentary rx	118	17	119	119		119	17	119	17	119	118
granite+alk felds granite rx	2049	1188	1784	1784	349	1784	630	1784	954	1784	2049
granodioritic intrusive rocks	4262	2965	4248	4248	595	4248	1439	4248	1604	4248	4262
gstone, greenschist metam rx	930	697	1001	1001	215	1001	315	1001	491	1001	930
hi lev qtz-phyrclstic int r	28	28	16	16	11	16	10	16	21	16	28
imbricate zone	33	33	33	33		33	33	33	33	33	33
intrusive rocks, undivided	692	688	515	515	196	515	225	515	421	515	692
limestone bioherm/reef	22	22	12	12	10	12	12	12	22	12	22
low amphibkyanite grd metam r	165	165	163	163	67	163	26	163	71	163	165
lst, slate, siltst, argillite	1077	444	986	986	116	986	328	986	444	986	1077
lst+marble+calc sed rocks	1098	818	978	978	223	978	460	978	673	978	1098
marine sed and volc rocks	1177	1139	999	999	398	999	322	999	677	999	1177
metamorphic rocks, undivided	685	400	694	694	88	694	60	694	125	694	685
metasediments											
mid amphibandalus grd metam r	314	297	312	312		312	2	312	2	312	314
migmatitic metamorphic rocks	2	2	2	2	2	2	2	2	2	2	2
monzodiorite	6	6	6	6		6	6	6	6	6	6
monzodioritic-gabbroic int rx	152	151	81	81	71	81	80	81	151	81	152
mudst,siltst,shale+fn cl sed r	2950	2228	2608	2608	837	2608	788	2608	1541	2608	2950
mudst/laminite fn clstc sed r	221	145	204	204	30	204	115	204	145	204	221
mudst+siltst+sst;cnglm+coal	30	30	30	30		30	30	30	30	30	30
mylonitic metamorphic rocks	61	59	71	71	16	71	43	71	59	71	61
orthogneiss metamorphic rocks	1788	1051	1835	1835	184	1835	268	1835	349	1835	1788
paragneiss metamorphic rocks	646	285	472	472	180	472	75	472	256	472	646
quartz dioritic intr rocks	1953	1879	1983	1983	611	1983	938	1983	1195	1983	1953
quartz monzonitic intr rocks	802	498	882	882	84	882	299	882	333	882	802
quartzite, qtz arenite sed rx	854	420	836	836	102	836	216	836	318	836	855
rhyolite, felsic volc rocks	345	341	182	182	197	182	43	182	202	182	345
serpentinite ultramafic rocks	127	115	125	125	27	125	18	125	30	125	127
siltst+fine-sst+chertpeb cnglm	164	164	100	100	64	100	100	100	164	100	164
siltst+sst+conglom,minor coal	52	52	44	44	8	44	44	44	52	44	52
sst, siltst, rare conglomerate	230	230			230				230		230
sst, siltstone, conglomerate	209	209	209	209		209	209	209	209	209	209
sst,siltst,c+ccmudst;cnglm+coal	1	1	1	1		1	1	1	1	1	1
syenitic-monzonitic intr rx	284	80	269	269	23	269	16	269	24	269	284
tonalite intrusive rocks	366	245	329	329	46	329	148	329	168	329	366
trachytic volcanic rocks	10	9	1	1	9	1		1	9	1	10
ultramafic rocks	157	139	134	134	51	134	68	134	101	134	157
undivided sedimentary rocks	4809	4414	4356	4356	726	4356	1032	4356	1679	4356	4809
undivided volcanic rocks	1509	1153	1328	1328	354	1328	306	1328	620	1328	1509
unknown	16	16	16	16	2	16	14	16	16	16	16
volcaniclastic rocks	1023	959	820	820	363	820	162	820	525	820	1023

LITHOLOGY	CO_INAA	CR_AAS	CR_INAA	CS_INAA	CU_AAS	FE_AAS	FE_INAA	HF_INAA	HG_AAS	LA_INAA	LU_INAA	MN_AAS
alkaline volcanic rocks	871		871	871	788	788	871	871	783	871	871	788
alluvium, till												
andesitic volcanic rocks	623	245	623	623	848	848	623	623	829	623	623	848
argil,gwacke,wacke,congl,turb	1273	172	1273	1273	1481	1481	1273	1273	1479	1273	1273	1481
argillite, siltstone	20		20	20	20	20	20	20	20	20	20	20
basaltic volcanic rocks	1362	48	1362	1362	1793	1793	1362	1361	1640	1362	1362	1793
bimodal volcanic rocks	86		86	86	83	83	86	86	19	86	86	83
calc-alkaline volcanic rocks	724	1	724	724	1448	1448	724	724	1422	724	724	1448
calcsilicate metamorphic rx	131		131	131	150	150	131	131	86	131	131	150
chert,sil argil,siliciclstc r	842	1	842	842	655	655	842	842	492	842	842	655
coarse clastic sed rocks	1452	128	1452	1452	1641	1641	1452	1452	1559	1452	1452	1641
conglom + crse clastic sed rx	163	6	163	163	228	228	163	163	226	163	163	228
conglom+sst+siltst+mudst+coal	3		3	3	3	3	3	3	3	3	3	3
crse volxstic+pyroxstic vlc r	37	6	37	37	54	54	37	37	54	37	37	54
dacitic volcanic rocks	76	5	76	76	76	76	76	76	76	76	76	76
dioritic to gabbroic intr rx	767	420	767	767	773	773	767	766	732	767	767	773
dolomitic carbonate rocks	586	374	586	586	628	628	586	586	556	586	586	628
eclogite/mantle tectonite	8		8	8	8	8	8	8	8	8	8	8
evaporite	1		1	1	1	1	1	1	1	1	1	1
feldspar porphyritic intr rx	10		10	10	35	35	10	10	35	10	10	35
fine clastic sedimentary rx	119		119	119	118	118	119	119	17	119	119	118
granite+alk felds granite rx	1784	29	1784	1784	2049	2049	1784	1784	1447	1784	1784	2049
granodioritic intrusive rocks	4248	852	4248	4248	4262	4262	4248	4248	3459	4248	4248	4262
gstone, greenschist metam rx	1001	51	1001	1001	933	933	1001	999	708	1001	1001	933
hi lev qtz-phyrx flstic int r	16		16	16	28	28	16	16	28	16	16	28
imbricate zone	33	33	33	33	33	33	33	33	33	33	33	33
intrusive rocks, undivided	515	27	515	515	692	692	515	515	692	515	515	692
limestone bioherm/reef	12		12	12	22	22	12	12	22	12	12	22
low amphibkyanite grd metam r	163	26	163	163	165	165	163	163	165	163	163	165
lst, slate, siltst, argillite	986	197	986	986	1077	1077	986	986	767	986	986	1077
lst+marble+calc sed rocks	978	57	978	978	1098	1098	978	978	938	978	978	1098
marine sed and volc rocks	999	154	999	999	1177	1177	999	999	1139	999	999	1177
metamorphic rocks, undivided	694	53	694	694	685	685	694	694	527	694	694	685
metasediments												
mid amphibandalus grd metam r	312		312	312	314	314	312	312	297	312	312	314
migmatitic metamorphic rocks	2		2	2	2	2	2	2	2	2	2	2
monzodiorite	6		6	6	6	6	6	6	6	6	6	6
monzodioritic-gabbroic int rx	81		81	81	152	152	81	81	152	81	81	152
mudst,siltst,shale+fn cl sed r	2608	471	2608	2608	2950	2950	2608	2608	2533	2608	2608	2950
mudst/laminite fn clstc sed r	204	5	204	204	221	221	204	204	162	204	204	221
mudst+siltst+sst;cnglm+coal	30		30	30	30	30	30	30	30	30	30	30
mylonitic metamorphic rocks	71		71	71	61	61	71	71	59	71	71	61
orthoigneiss metamorphic rocks	1835	248	1835	1835	1788	1788	1835	1835	1119	1835	1835	1788
paragneiss metamorphic rocks	472	6	472	472	646	646	472	472	352	472	472	645
quartz dioritic intr rocks	1983	915	1983	1983	1953	1953	1983	1981	1882	1983	1983	1953
quartz monzonitic intr rocks	882	52	882	882	802	802	882	882	660	882	882	802
quartzite, qtz arenite sed rx	836	41	836	836	855	855	836	836	728	836	836	855
rhyolite, felsic volc rocks	182	38	182	182	345	345	182	182	345	182	182	345
serpentinite ultramafic rocks	125	15	125	125	127	127	125	125	115	125	125	127
siltst+fine-sst+chertpeb cnglm	100		100	100	164	164	100	100	164	100	100	164
siltst+sst+conglom,minor coal	44		44	44	52	52	44	44	52	44	44	52
sst, siltst, rare conglomerate					230	230			230			230
sst, siltstone, conglomerate	209		209	209	209	209	209	209	209	209	209	209
sst,siltst,c+ccmudst;cnglm+coal	1		1	1	1	1	1	1	1	1	1	1
syenitic-monzonitic intr rx	269	15	269	269	284	284	269	269	117	269	269	284
tonalite intrusive rocks	329	109	329	329	366	366	329	329	358	329	329	366
trachytic volcanic rocks	1		1	1	10	10	1	1	10	1	1	10
ultramafic rocks	134	18	134	134	157	157	134	132	154	134	134	157
undivided sedimentary rocks	4356	470	4356	4356	4810	4809	4356	4355	4703	4356	4356	4809
undivided volcanic rocks	1328	97	1328	1328	1509	1509	1328	1328	1178	1328	1328	1509
unknown	16	14	16	16	16	16	16	16	16	16	16	16
volcaniclastic rocks	820	74	820	820	1023	1023	820	820	958	820	820	1023

LITHOLOGY	MO_AAS	MO_INAA	NA_INAA	NI_AAS	NI_INAA	PB_AAS	RB_INAA	SB_AAS	SB_INAA	SC_INAA	SM_INAA	SN_AAS
alkaline volcanic rocks	788	679	871	788	679	788	871	411	871	871	871	73
alluvium, till												
andesitic volcanic rocks	848	622	623	848	622	848	623	757	623	623	623	371
argil,gwacke,wacke,congl,turb	1481	1188	1273	1481	1188	1481	1273	1132	1273	1273	1273	801
argillite, siltstone	20	20	20	20	20	20	20		20	20	20	
basaltic volcanic rocks	1793	1322	1362	1793	1322	1793	1362	1254	1362	1362	1362	686
bimodal volcanic rocks	83	82	86	83	82	83	86	19	86	86	86	
calc-alkaline volcanic rocks	1448	724	724	1448	724	1448	724	1075	724	724	724	510
calcsilicate metamorphic rx	150	131	131	150	131	150	131	19	131	131	131	22
chert,sil argil,siliciclstc r	655	637	842	655	637	655	842	168	842	842	842	316
coarse clastic sed rocks	1641	1415	1452	1641	1415	1641	1452	1159	1452	1452	1452	571
conglom + crse clastic sed rx	228	148	163	228	148	228	163	187	163	163	163	99
conglom+sst+siltst+mudst+coal	3	3	3	3	3	3	3	3	3	3	3	
crse volxstic+pyroxstic vlc r	54	37	37	54	37	54	37	54	37	37	37	22
dacitic volcanic rocks	76	76	76	76	76	76	76	75	76	76	76	5
diortitic to gabbroic intr rx	773	709	767	773	709	773	767	661	767	767	767	465
dolomitic carbonate rocks	628	586	585	628	586	628	586	465	586	586	586	500
eclogite/mantle tectonite	8	8	8	8	8	8	8		8	8	8	
evaporite	1	1	1	1	1	1	1	1	1	1	1	
feldspar porphyritic intr rx	35	10	10	35	10	35	10	29	10	10	10	4
fine clastic sedimentary rx	118	118	119	118	118	118	119	17	119	119	119	
granite+alk felds granite rx	2049	1760	1784	2049	1760	2049	1784	1117	1784	1784	1784	556
granodioritic intrusive rocks	4262	4055	4248	4262	4055	4262	4248	2188	4248	4248	4248	1401
gstone, greenschist metam rx	933	814	1001	933	814	931	1001	625	1001	1001	1001	125
hi lev qtz-phyrcl flstic int r	28	16	16	28	16	28	16	28	16	16	16	10
imbricate zone	33	33	33	33	33	33	33	33	33	33	33	33
intrusive rocks, undivided	692	493	515	692	493	692	515	479	515	515	515	167
limestone bioherm/reef	22	12	12	22	12	22	12	22	12	12	12	10
low amphibkyanite grd metam r	165	163	163	165	163	165	163	103	163	163	163	26
lst, slate, siltst, argillite	1077	986	984	1077	986	1077	986	444	986	986	986	603
lst+marble+calc sed rocks	1098	941	978	1098	941	1098	978	752	978	978	978	307
marine sed and volc rocks	1176	805	999	1177	805	1177	999	968	999	999	999	508
metamorphic rocks, undivided	685	663	694	685	663	685	694	393	694	694	694	111
metasediments												
mid amphibandalus grd metam r	314	312	312	314	312	314	312	55	312	312	312	
migmatitic metamorphic rocks	2		2	2		2	2	2	2	2	2	2
monzodiorite	6	6	6	6	6	6	6	6	6	6	6	
monzodioritic-gabbroic int rx	152	81	81	152	81	152	81	152	81	81	81	71
mudst,siltst,shale+fn cl sed r	2950	2596	2606	2950	2596	2950	2608	2064	2608	2608	2608	1002
mudst/laminite fn clstc sed r	221	204	204	221	204	221	204	145	204	204	204	36
mudst+siltst+sst;cnglm+coal	30	30	30	30	30	30	30	30	30	30	30	
mylonitic metamorphic rocks	61	58	71	61	58	61	71	59	71	71	71	3
orthoigneiss metamorphic rocks	1788	1722	1835	1788	1722	1788	1835	495	1835	1835	1835	250
paragneiss metamorphic rocks	646	460	472	646	460	646	472	285	472	472	472	231
quartz diortitic intr rocks	1953	1683	1983	1953	1683	1953	1983	1504	1983	1983	1983	1084
quartz monzonitic intr rocks	802	731	882	802	731	802	882	450	882	882	882	239
quartzite, qtz arenite sed rx	855	836	836	855	836	854	836	323	836	836	836	290
rhyolite, felsic volc rocks	345	177	182	345	177	345	182	301	182	182	182	77
serpentinite ultramafic rocks	127	125	125	127	125	127	125	113	125	125	125	15
siltst+fine-sst+chertpeb cnglm	164	100	100	164	100	164	100	164	100	100	100	64
siltst+sst+conglom,minor coal	52	44	44	52	44	52	44	52	44	44	44	8
sst, siltst, rare conglomerate	230			230		230		230				230
sst, siltstone, conglomerate	209	209	209	209	209	209	209	209	209	209	209	
sst,siltst,c+ccmudst;cngl+coal	1	1	1	1	1	1	1	1	1	1	1	
syenitic-monzonitic intr rx	284	269	269	284	269	284	269	72	269	269	269	58
tonalite intrusive rocks	366	329	329	366	329	366	329	230	329	329	329	241
trachytic volcanic rocks	10	1	1	10	1	10	1	9	1	1	1	10
ultramafic rocks	157	128	134	157	128	157	134	136	134	134	134	61
undivided sedimentary rocks	4809	4309	4356	4809	4309	4810	4356	2903	4356	4356	4356	1058
undivided volcanic rocks	1510	1264	1328	1509	1264	1509	1328	1090	1328	1328	1328	312
unknown	16	16	16	16	16	16	16	16	16	16	16	14
volcaniclastic rocks	1022	752	820	1023	752	1023	820	690	820	820	820	329

LITHOLOGY	TA_INAA	TB_INAA	TH_INAA	U_INAA	U_NADN	V_AAS	W_COLO	W_INAA	YB_INAA	ZN_AAS	ZR_INAA
alkaline volcanic rocks	871	871	871	871	786	71	787	722	871	788	610
alluvium, till											
andesitic volcanic rocks	623	623	623	623	804	408	787	429	623	848	556
argil,gwacke,wacke,congl,turb	1273	1273	1273	1273	834	1100	835	1207	1273	1481	498
argillite, siltstone	20	20	20	20	20		20	20	20	20	20
basaltic volcanic rocks	1362	1362	1362	1362	1652	856	1600	1322	1362	1793	770
bimodal volcanic rocks	86	86	86	86	64	19	64	82	86	83	63
calc-alkaline volcanic rocks	724	724	724	724	1345	669	1321	724	724	1448	486
calcsilicate metamorphic rx	131	131	131	131	150	19	56	131	131	150	131
chert,sil argil,siliciclstc r	842	842	842	842	593	128	523	677	842	655	493
coarse clastic sed rocks	1452	1452	1452	1452	1506	518	1429	1410	1452	1641	1016
conglom + crse clastic sed rx	163	163	163	163	174	153	173	149	163	228	76
conglom+sst+siltst+mudst+coal	3	3	3	3		3		3	3	3	
crse volxstic+pyroxstic vlc r	37	37	37	37	52	24	52	31	37	54	35
dacitic volcanic rocks	76	76	76	76	37	44	37	74	76	76	8
dioritic to gabbroic intr rx	767	767	767	767	672	556	662	671	767	773	250
dolomitic carbonate rocks	586	586	586	586	604	437	601	586	586	628	548
eclogite/mantle tectonite	8	8	8	8	8		8	8	8	8	8
evaporite	1	1	1	1	1	1		1	1	1	1
feldspar porphyritic intr rx	10	10	10	10	33	6	33	10	10	35	8
fine clastic sedimentary rx	119	119	119	119	101	17	101	118	119	118	101
granite+alk felds granite rx	1784	1784	1784	1784	1448	952	1090	1752	1784	2049	1098
granodioritic intrusive rocks	4248	4248	4248	4248	3671	1519	2993	4086	4248	4262	2591
gstone, greenschist metam rx	1001	1001	1001	1001	669	436	451	841	1001	933	478
hi lev qtz-phyrx flstic int r	16	16	16	16	18	20	18	16	16	28	6
imbricate zone	33	33	33	33	33	33	33	33	33	33	
intrusive rocks, undivided	515	515	515	515	492	366	494	498	515	692	265
limestone bioherm/reef	12	12	12	12	10	22	10	12	12	22	
low amphibkyanite grd metam r	163	163	163	163	165	26	165	151	163	165	109
lst, slate, siltst, argillite	986	986	986	986	945	432	938	986	986	1077	826
lst+marble+calc sed rocks	978	978	978	978	695	659	654	938	978	1098	478
marine sed and volc rocks	999	999	999	999	1009	676	998	848	999	1177	463
metamorphic rocks, undivided	694	694	694	694	678	125	444	671	694	685	546
metasediments											
mid amphibandalus grd metam r	312	312	312	312	311	2	312	312	312	314	310
migmatitic metamorphic rocks	2	2	2	2	2	2	2		2	2	
monzodiorite	6	6	6	6	6	6		6	6	6	
monzodioritic-gabbroic int rx	81	81	81	81	72	151	72	81	81	152	1
mudst,siltst,shale+fn cl sed r	2608	2608	2608	2608	2635	1353	2162	2527	2608	2950	1828
mudst/laminite fn clstc sed r	204	204	204	204	111	129	111	204	204	221	78
mudst+siltst+sst;cnglm+coal	30	30	30	30		30		30	30	30	
mylonitic metamorphic rocks	71	71	71	71	18	46	18	63	71	61	2
orthoigneiss metamorphic rocks	1835	1835	1835	1835	1766	268	1033	1736	1835	1788	1422
paragneiss metamorphic rocks	472	472	472	472	576	256	297	464	472	646	385
quartz dioritic intr rocks	1983	1983	1983	1983	1929	1103	1881	1684	1983	1953	836
quartz monzonitic intr rocks	882	882	882	882	555	331	484	753	882	802	444
quartzite, qtz arenite sed rx	836	836	836	836	680	242	527	836	836	855	539
rhyolite, felsic volc rocks	182	182	182	182	340	79	341	155	182	345	171
serpentinite ultramafic rocks	125	125	125	125	124	18	123	114	125	127	110
siltst+fine-sst+chertpeb cnglm	100	100	100	100	64	164	64	100	100	164	
siltst+sst+conglom,minor coal	44	44	44	44	8	52	8	44	44	52	
sst, siltst, rare conglomerate					230	230	230			230	
sst, siltstone, conglomerate	209	209	209	209		209		209	209	209	
sst,siltst,c+ccmudst;cnglm+coal	1	1	1	1		1		1	1	1	
syenitic-monzonitic intr rx	269	269	269	269	284	24	114	256	269	284	268
tonalite intrusive rocks	329	329	329	329	326	168	324	328	329	366	182
trachytic volcanic rocks	1	1	1	1	10	9	10	1	1	10	1
ultramafic rocks	134	134	134	134	107	96	106	113	134	157	72
undivided sedimentary rocks	4356	4356	4356	4356	4238	1540	4206	4248	4356	4810	3430
undivided volcanic rocks	1328	1328	1328	1328	1304	506	992	1234	1328	1509	873
unknown	16	16	16	16	16	14	16	16	16	16	14
volcaniclastic rocks	820	820	820	820	932	518	871	762	820	1023	488