Supplementary Table 1: Portable XRF Data for Mica Specimens.

Note: Means, standard deviations, and corrected coefficients of variation (in parentheses) of replicate are provided when determined. Empty cells indicate values below detection limits. Data in ppm unless otherwise noted.

ANID	Specimen	Country	State/Province	County/District	Site_Name	Site_Number	Material
GDM007	AE472.7465	USA	NJ	Mercer	Abbott Farm	28-Me-1	Mica (Muscovite)
GDM008	AE472.69880	USA	NJ	Mercer	Abbott Farm	28-Me-1	Mica (Muscovite)
GDM009	AE472.67842	USA	NJ	Mercer	Abbott Farm	28-Me-1	Mica (Muscovite)
GDM010	AE472.65427	USA	NJ	Mercer	Abbott Farm	28-Me-1	Mica (Muscovite)
GDM011	AE472.68726	USA	NJ	Mercer	Abbott Farm	28-Me-1	Mica (Muscovite)
GDM012	AE472.96137	USA	NJ	Mercer	Abbott Farm	28-Me-1	Mica (Muscovite)
GDM013	AE472.96724	USA	NJ	Mercer	Abbott Farm	28-Me-1	Mica (Muscovite)
GDM014	AE472.96309	USA	NJ	Mercer	Abbott Farm	28-Me-1	Mica (Muscovite)
GDM015	AE472.15875	USA	NJ	Mercer	Abbott Farm	28-Me-1	Mica (Muscovite)
GDM016	AE472.15841	USA	NJ	Mercer	Abbott Farm	28-Me-1	Mica (Muscovite)
GDM017	AE472.15770	USA	NJ	Mercer	Abbott Farm	28-Me-1	Mica (Muscovite)
GDM018	AE472.15900	USA	NJ	Mercer	Abbott Farm	28-Me-1	Mica (Muscovite)
GDM019	AE472.15826	USA	NJ	Mercer	Abbott Farm	28-Me-1	Mica (Muscovite)
GDM020	AE472.15949	USA	NJ	Mercer	Abbott Farm	28-Me-1	Mica (Muscovite)
GDM021	AE472.57337	USA	NJ	Mercer	Abbott Farm	28-Me-1	Mica (Muscovite)
GDM022	AE472.55455	USA	NJ	Mercer	Abbott Farm	28-Me-1	Mica (Muscovite)
GDM023	AE472.54191	USA	NJ	Mercer	Abbott Farm	28-Me-1	Mica (Muscovite)
GDM024	AE472.54209	USA	NJ	Mercer	Abbott Farm	28-Me-1	Mica (Muscovite)
GDM025	AE472.53647	USA	NJ	Mercer	Abbott Farm	28-Me-1	Mica (Muscovite)
GDM026	AE472.54196	USA	NJ	Mercer	Abbott Farm	28-Me-1	Mica (Muscovite)
GDM027	AE472.52931	USA	NJ	Mercer	Abbott Farm	28-Me-1	Mica (Muscovite)
GDM028	AE1987.7.467	USA	NJ	Mercer	Abbott Farm	28-Me-1	Mica (Muscovite)
GDM029	AE1987.7.215	USA	NJ	Mercer	Abbott Farm	28-Me-1	Mica (Muscovite)
GDM030		USA	NJ	Mercer	Abbott Farm	28-Me-1	Mica (Muscovite)
GDM101	Beck	USA	PA	Philadelphia	Philadelphia		Mica (Muscovite)
GDM102	Rutgers 1647	USA	NC	Mitchell			Mica (Muscovite)
GDM103	Woodward 7	USA	NY	Harlem	127th and Riverside Drive		Mica (Muscovite)
GDM104	LXV 45	USA	NY	Westchester	New Rochelle		Mica (Muscovite)
GDM105	LXV 40	USA	NY	Bronx	West Farms		Mica (Muscovite)
GDM106	Beck 768	USA	PA	Delaware	Ridley		Mica (Muscovite)
GDM107	Smock	USA	NY	Harlem	High Bridge Park		Mica (Muscovite)
GDM108	LXV 35	USA	NY	Putnam	Southeast Putnam County		Mica (Muscovite)

ANID	Specimen	Country	State/Province	County/District	Site_Name	Site_Number	Material
GDM109	LXV 22	USA	PA	Delaware	Crumb Creek		Mica (Muscovite)
GDM110	Beck LXV / 44	USA	NY	Westchester	2.5 m northeast of Yonkers		Mica (Muscovite)
GDM111	LXV 11	USA	NY	New York	Manhattan (NY Island)		Mica (Muscovite)
GDM112	LXV 33	USA	NY	Westchester	Yonkers		Mica (Muscovite)
GDM113	LXV 22b	USA	PA	Delaware			Mica (Muscovite)
GDM114	Lewis 51	USA	NJ	Morris	Roxbury		Mica (Muscovite)
GDM115	Beck 767	USA	PA	Chester	London Grove		Mica (Muscovite)
GDM116	Rutgers 1693	USA	PA	Chester	Fairville		Mica (Muscovite)
NIST 278							
NIST 610							
NIST 688							
RGM 1							

ANID	Sample_Type	Na %	Mg %	Al %	Si %	P
GDM007	Artifact	4.959 ± 2.684 (58.63)	1.846 ± 0.91 (53.39)	13.919 ± 0.625 (4.86)	17.41 ± 1.612 (10.03)	640 ± 333 (56.41)
GDM008	Artifact	6.834 ± 1 (15.85)	1.532 ± 0.246 (17.4)	14.443 ± 0.116 (0.87)	17.183 ± 0.478 (3.01)	546 ± 111 (22)
GDM009	Artifact	6.908 ± 0.602 (9.43)	1.439 ± 0.223 (16.82)	14.491 ± 0.234 (1.75)	16.695 ± 0.549 (3.56)	460 ± 83 (19.44)
GDM010	Artifact	5.693 ± 0.753 (14.34)	1.906 ± 0.297 (16.85)	13.958 ± 0.245 (1.9)	17.309 ± 0.072 (0.45)	1477 ± 553 (40.58)
GDM011	Artifact	7.165 ± 0.408 (5.98)	1.445 ± 0.12 (8.7)	14.258 ± 0.157 (1.16)	17.464 ± 0.283 (1.7)	785 ± 79 (10.52)
GDM012	Artifact	6.249 ± 0.625 (10.84)	1.708 ± 0.192 (12.16)	14.427 ± 0.121 (0.91)	17.355 ± 0.488 (3.04)	529 ± 134 (27.45)
GDM013	Artifact	6.891 ± 1.148 (18.05)	1.321 ± 0.391 (32.09)	14.227 ± 0.307 (2.34)	17.03 ± 0.528 (3.36)	519 ± 59 (12.21)
GDM014	Artifact	5.995 ± 0.14 (2.52)	1.647 ± 0.041 (2.7)	14.288 ± 0.026 (0.19)	17.446 ± 0.058 (0.36)	666 ± 34 (5.49)
GDM015	Artifact	6.605 ± 0.338 (5.54)	1.513 ± 0.11 (7.84)	14.491 ± 0.097 (0.73)	16.797 ± 0.019 (0.12)	413 ± 27 (6.99)
GDM016	Artifact	5.103 ± 0.248 (5.25)	2.023 ± 0.1 (5.34)	14.55 ± 0.076 (0.56)	17.713 ± 0.244 (1.49)	498 ± 35 (7.54)
GDM017	Artifact	7.482 ± 0.131 (1.89)	1.021 ± 0.184 (19.57)	13.943 ± 0.08 (0.62)	16.964 ± 0.106 (0.68)	528 ± 9 (1.77)
GDM018	Artifact	7.169 ± 0.311 (4.7)	1.436 ± 0.06 (4.49)	14.6 ± 0.126 (0.93)	16.817 ± 0.099 (0.64)	512 ± 98 (20.78)
GDM019	Artifact	5.558 ± 0.661 (12.88)	1.848 ± 0.128 (7.52)	14.347 ± 0.334 (2.52)	17.811 ± 0.631 (3.84)	575 ± 40 (7.49)
GDM020	Artifact	6.573 ± 0.25 (4.12)	1.493 ± 0.107 (7.76)	14.549 ± 0.049 (0.37)	16.854 ± 0.181 (1.16)	448 ± 72 (17.51)
GDM021	Artifact	5.919 ± 0.372 (6.8)	1.636 ± 0.09 (5.93)	14.29 ± 0.413 (3.13)	17.953 ± 0.831 (5.01)	575 ± 139 (26.2)
GDM022	Artifact	7.205 ± 0.288 (4.34)	1.301 ± 0.044 (3.67)	14.644 ± 0.033 (0.24)	16.643 ± 0.081 (0.52)	424 ± 9 (2.17)
GDM023	Artifact	6.549 ± 0.516 (8.53)	1.626 ± 0.21 (13.96)	14.515 ± 0.134 (1)	17.199 ± 0.37 (2.33)	601 ± 34 (6.05)
GDM024	Artifact	7.437 ± 0.437 (6.36)	1.063 ± 0.28 (28.5)	13.538 ± 0.473 (3.79)	16.161 ± 0.575 (3.85)	609 ± 129 (22.94)
GDM025	Artifact	7.523 ± 0.372 (5.35)	1.174 ± 0.31 (28.64)	14.249 ± 0.626 (4.76)	16.11 ± 0.581 (3.91)	494 ± 121 (26.54)
GDM026	Artifact	7.77 ± 0.209 (2.91)	0.824 ± 0.194 (25.51)	13.62 ± 0.618 (4.91)	15.858 ± 0.236 (1.61)	513 ± 70 (14.75)
GDM027	Artifact	7.306 ± 1.24 (18.38)	1.403 ± 0.246 (18.96)	14.001 ± 0.445 (3.44)	16.923 ± 0.478 (3.06)	587 ± 81 (15.01)
GDM028	Artifact		0.491 ± 0.434 (99.48)	6.19 ± 0.3 (5.25)	18.236 ± 0.323 (1.92)	61 ± 8 (14.17)
GDM029	Artifact	6.273 ± 0.583 (10.06)	1.657 ± 0.119 (7.77)	14.298 ± 0.047 (0.36)	17.234 ± 0.351 (2.21)	548 ± 94 (18.59)
GDM030	Artifact	6.915 ± 0.29 (4.54)	1.472 ± 0.047 (3.43)	14.6 ± 0.047 (0.35)	17.053 ± 0.126 (0.8)	466 ± 30 (6.9)
GDM101	Source	7.022 ± 1.112 (17.16)	1.581 ± 0.233 (15.95)	14.725 ± 0.227 (1.67)	17.207 ± 0.578 (3.64)	477 ± 42 (9.48)
GDM102	Source	8.051 ± 0.55 (7.4)	1.352 ± 0.088 (7.06)	14.502 ± 0.68 (5.08)	17.454 ± 0.704 (4.37)	494 ± 92 (20.28)
GDM103	Source	10.549 ± 0.315 (3.24)	0.89 ± 0.239 (29.14)	14.9 ± 0.209 (1.52)	15.704 ± 0.952 (6.57)	299 ± 123 (44.56)
GDM104	Source	6.089 ± 1.03 (18.32)	1.744 ± 0.23 (14.31)	14.47 ± 0.19 (1.42)	17.835 ± 0.349 (2.12)	541 ± 68 (13.66)
GDM105	Source	8.125 ± 0.555 (7.4)	1.172 ± 0.118 (10.92)	14.836 ± 0.037 (0.27)	16.475 ± 0.205 (1.35)	442 ± 23 (5.7)
GDM106	Source	8.849 ± 1.538 (18.83)	1.137 ± 0.236 (22.51)	14.864 ± 0.342 (2.49)	15.998 ± 0.415 (2.81)	396 ± 79 (21.61)
GDM107	Source			7.153 ± 0.177 (2.68)	23.212 ± 0.661 (3.09)	274 ± 74 (29.32)
GDM108	Source	7.47 ± 0.142 (2.06)	1.494 ± 0.05 (3.6)	14.729 ± 0.069 (0.51)	17.284 ± 0.034 (0.22)	505 ± 52 (11.22)

ANID	Sample_Type	Na %	Mg %	Al %	Si %	P
GDM109	Source	8.572 ± 0.468 (5.92)	1.259 ± 0.111 (9.54)	15.008 ± 0.064 (0.46)	16.119 ± 0.358 (2.4)	409 ± 50 (13.1)
GDM110	Source	6.54 ± 1.279 (21.18)	1.567 ± 0.241 (16.64)	14.418 ± 0.228 (1.71)	17.692 ± 0.827 (5.06)	478 ± 81 (18.46)
GDM111	Source	6.167 ± 1.267 (22.26)	1.836 ± 0.441 (26.02)	14.557 ± 0.413 (3.08)	15.803 ± 0.924 (6.33)	506 ± 24 (5.1)
GDM112	Source	7.749 ± 1.161 (16.23)	1.206 ± 0.238 (21.39)	14.724 ± 0.382 (2.81)	17.127 ± 0.733 (4.64)	492 ± 32 (7.11)
GDM113	Source	5.918 ± 0.671 (12.29)	1.787 ± 0.161 (9.75)	14.426 ± 0.246 (1.85)	17.736 ± 0.338 (2.06)	555 ± 32 (6.23)
GDM114	Source			10.725 ± 2.965 (29.95)	23.304 ± 1.872 (8.7)	440 ± 62 (15.22)
GDM115	Source	9.034 ± 1.669 (20.01)	1.26 ± 0.312 (26.78)	15.123 ± 0.167 (1.2)	16.152 ± 0.52 (3.49)	394 ± 76 (20.79)
GDM116	Source	7.415 ± 0.27 (3.95)	1.198 ± 0.123 (11.15)	14.225 ± 0.285 (2.17)	16.496 ± 0.401 (2.63)	375 ± 59 (16.92)
NIST 278	SRM	2.452 ± 0.371 (16.4)	0.14 ± 0.136 (105.22)	5.954 ± 0.029 (0.52)	27.206 ± 0.423 (1.69)	440 ± 24 (5.92)
NIST 610	SRM	1.754 ± 0.204 (12.12)			30.494 ± 0.102 (0.35)	996 ± 51 (5.35)
NIST 688	SRM	1.346 ± 0.162 (13.01)	4.302 ± 0.218 (5.5)	7.631 ± 0.259 (3.68)	18.072 ± 0.15 (0.9)	692 ± 60 (9.42)
RGM 1	SRM	2.497 ± 0.179 (7.76)	0.337 ± 0.091 (30.21)	5.827 ± 0.028 (0.51)	27.677 ± 0.118 (0.46)	448 ± 23 (5.56)

ANID	S	K %	Ca %	Ba	Ti %	V
GDM007	2507 ± 76 (3.4)	5.243 ± 0.04 (0.82)	0.563 ± 0.011 (2.11)	2627 ± 204 (8.41)	0.181 ± 0.012 (7.03)	
GDM008	2488 ± 300 (13.06)	5.262 ± 0.006 (0.12)	0.563 ± 0.004 (0.73)	2066 ± 150 (7.87)	0.203 ± 0.005 (2.67)	
GDM009	2719 ± 144 (5.74)	5.229 ± 0.048 (0.98)	0.556 ± 0.005 (1)	2328 ± 126 (5.85)	0.183 ± 0.009 (5.26)	
GDM010	1319 ± 69 (5.85)	5.265 ± 0.018 (0.37)	0.563 ± 0.006 (1.2)	2143 ± 54 (2.74)	0.198 ± 0.007 (3.84)	
GDM011	1029 ± 199 (20.27)	5.243 ± 0.02 (0.4)	0.552 ± 0.006 (1.23)	289 ± 83 (30.24)	0.117 ± 0.014 (12.37)	45 ± 14 (33.78)
GDM012	2528 ± 293 (12.55)	5.222 ± 0.014 (0.28)	0.537 ± 0.016 (3.14)	2171 ± 154 (7.68)	0.185 ± 0.005 (2.68)	
GDM013	2435 ± 256 (11.37)	5.248 ± 0.018 (0.37)	0.559 ± 0.002 (0.45)	1132 ± 233 (22.33)	0.349 ± 0.032 (9.88)	104 ± 15 (15.3)
GDM014	2070 ± 56 (2.95)	5.293 ± 0.002 (0.05)	0.577 ± 0.002 (0.33)	886 ± 82 (10.01)	0.28 ± 0.002 (0.89)	125 ± 7 (6)
GDM015	2806 ± 8 (0.32)	5.254 ± 0.013 (0.27)	0.564 ± 0.006 (1.17)	1921 ± 53 (2.97)	0.179 ± 0.002 (0.93)	
GDM016	2493 ± 44 (1.91)	5.264 ± 0.006 (0.13)	0.554 ± 0.004 (0.71)	2190 ± 128 (6.35)	0.179 ± 0.004 (2.18)	
GDM017	2584 ± 17 (0.71)	5.207 ± 0.002 (0.04)	0.558	1863 ± 118 (6.87)	0.202 ± 0.003 (1.42)	5
GDM018	2539 ± 152 (6.47)	5.23 ± 0.02 (0.42)	0.555 ± 0.007 (1.27)	2144 ± 240 (12.11)	0.185 ± 0.009 (5.52)	
GDM019	2124 ± 248 (12.67)	5.25 ± 0.012 (0.25)	0.545 ± 0.01 (1.92)	1953 ± 76 (4.24)	0.214 ± 0.008 (3.93)	
GDM020	2760 ± 137 (5.36)	5.241 ± 0.016 (0.34)	0.555 ± 0.005 (0.92)	2136 ± 92 (4.69)	0.199 ± 0.008 (4.56)	
GDM021	2462 ± 367 (16.15)	5.274 ± 0.016 (0.33)	0.564 ± 0.011 (2.14)	1132 ± 41 (3.87)	0.22 ± 0.005 (2.43)	65 ± 5 (7.66)
GDM022	2807 ± 12 (0.47)	5.246 ± 0.003 (0.07)	0.559 ± 0.002 (0.4)	2280 ± 77 (3.64)	0.172 ± 0.003 (1.67)	
GDM023	2100 ± 128 (6.61)	5.27 ± 0.007 (0.14)	0.564 ± 0.003 (0.55)	350 ± 9 (2.96)	0.135 ± 0.012 (9.99)	77 ± 25 (34.74)
GDM024	2073 ± 402 (20.99)	5.131 ± 0.129 (2.72)	0.553 ± 0.024 (4.66)	1986 ± 245 (13.35)	0.168 ± 0.012 (7.46)	
GDM025	2327 ± 252 (11.71)	5.132 ± 0.128 (2.71)	0.545 ± 0.008 (1.49)	2544 ± 94 (4.02)	0.269 ± 0.033 (13.16)	
GDM026	2326 ± 263 (12.23)	5.117 ± 0.063 (1.34)	0.548 ± 0.007 (1.4)	1204 ± 57 (5.17)	0.158 ± 0.006 (4.28)	30 ± 3 (10.91)
GDM027	1697 ± 682 (43.53)	5.096 ± 0.174 (3.69)	0.548 ± 0.017 (3.33)	1779 ± 356 (21.67)	0.19 ± 0.021 (12.07)	
GDM028	297	0.118 ± 0.016 (14.8)			0.305 ± 0.007 (2.31)	206 ± 5 (2.69)
GDM029		5.246 ± 0.02 (0.41)	0.556 ± 0.006 (1.07)	1917 ± 390 (22.04)	0.202 ± 0.008 (4.16)	11 ± 14 (144.64)
GDM030	2686 ± 36 (1.45)	5.267 ± 0.014 (0.29)	0.564 ± 0.005 (0.97)	2361 ± 89 (4.08)	0.186 ± 0.004 (2.21)	
GDM101	2301 ± 345 (16.26)	5.245 ± 0.03 (0.63)	0.542 ± 0.026 (5.1)	118	0.099 ± 0.007 (7.47)	43 ± 12 (29.3)
GDM102	2678 ± 200 (8.41)	5.254 ± 0.008 (0.16)	0.551 ± 0.004 (0.82)	51 ± 36 (77.2)	0.118 ± 0.002 (1.84)	64 ± 3 (5.08)
GDM103	3250 ± 132 (4.58)	5.026 ± 0.11 (2.37)	0.533 ± 0.003 (0.65)	349 ± 158 (48.94)	0.14 ± 0.036 (27.71)	57 ± 41 (79.06)
GDM104	1378 ± 811 (63.77)	5.265 ± 0.016 (0.33)	0.556 ± 0.011 (2.21)	1147 ± 258 (24.32)	0.288 ± 0.019 (7.15)	84 ± 21 (27.2)
GDM105	2418 ± 560 (25.1)	5.228 ± 0.029 (0.59)	0.553 ± 0.011 (2.08)	386 ± 88 (24.73)	0.088 ± 0.004 (4.44)	33 ± 11 (36.68)
GDM106	2243 ± 749 (36.19)	5.18 ± 0.038 (0.8)	0.553 ± 0.007 (1.41)	423 ± 88 (22.47)	0.114 ± 0.029 (27.39)	44 ± 21 (51.11)
GDM107	2678 ± 247 (9.97)	5.139 ± 0.078 (1.64)	0.549 ± 0.009 (1.81)	2781 ± 207 (8.08)	0.417 ± 0.028 (7.2)	
GDM108	2543 ± 82 (3.49)	5.262 ± 0.03 (0.61)	0.557 ± 0.017 (3.38)	558 ± 72 (14.02)	0.114 ± 0.005 (4.38)	43 ± 5 (11.81)

ANID	S	K %	Ca %	Ba	Ti %	V
GDM109	2695 ± 279 (11.22)	5.182 ± 0.032 (0.66)	0.552 ± 0.007 (1.38)	554 ± 67 (13.1)	0.206 ± 0.007 (3.74)	96 ± 9 (10.34)
GDM110	2453 ± 467 (20.62)	5.254 ± 0.011 (0.22)	0.559 ± 0.004 (0.7)	784 ± 99 (13.71)	0.241 ± 0.012 (5.37)	84 ± 8 (10.77)
GDM111		3.882 ± 1.323 (36.91)	0.548	454 ± 297 (70.88)	0.061 ± 0.024 (42.66)	9 ± 1 (12.04)
GDM112	1831 ± 1194 (70.62)	5.279 ± 0.024 (0.49)	0.569 ± 0.017 (3.15)	333 ± 77 (25.07)	0.096 ± 0.004 (4.92)	28 ± 7 (27.5)
GDM113	919 ± 310 (36.57)	5.241 ± 0.03 (0.63)	0.537 ± 0.022 (4.4)	899 ± 79 (9.48)	0.203 ± 0.013 (6.66)	72 ± 6 (9.72)
GDM114	482	5.209 ± 0.028 (0.57)	0.545 ± 0.008 (1.62)	1814 ± 136 (8.14)	0.189 ± 0.003 (1.65)	
GDM115	2469 ± 723 (31.73)	5.236 ± 0.028 (0.58)	0.557 ± 0.015 (2.9)	415 ± 72 (18.81)	0.126 ± 0.035 (30.41)	59 ± 25 (45.99)
GDM116	2864 ± 37 (1.41)	5.227 ± 0.054 (1.13)	0.563 ± 0.008 (1.6)	2237 ± 127 (6.13)	0.214 ± 0.013 (6.7)	
NIST 278	254 ± 66 (29.18)	2.833 ± 0.024 (0.93)	0.66 ± 0.009 (1.48)	872 ± 78 (9.69)	0.125 ± 0.004 (3.05)	7 ± 7 (101.48)
NIST 610	329 ± 87 (27.6)	0.089 ± 0.008 (9.61)	7.248 ± 0.022 (0.31)	387 ± 65 (17.61)	0.033 ± 0.002 (6)	
NIST 688		0.14 ± 0.002 (1.34)	7.167 ± 0.014 (0.21)	174 ± 45 (28.22)	0.543 ± 0.009 (1.8)	178 ± 6 (3.57)
RGM 1		2.917 ± 0.009 (0.34)	0.753 ± 0.007 (0.96)	809 ± 44 (5.87)	0.133 ± 0.002 (1.89)	17 ± 3 (18.04)

ANID	Cr	Mn	Fe %	Co	Ni	Cu	Zn
GDM007	21 ± 16 (80.58)	356 ± 39 (11.79)	4.397 ± 0.272 (6.7)	11 ± 2 (14.6)	14 ± 3 (22.73)	51 ± 31 (66.25)	48 ± 62 (145.84)
GDM008	4	406 ± 54 (14.32)	4.935 ± 0.037 (0.82)	11 ± 1 (11.73)		71 ± 10 (15.12)	5
GDM009		516 ± 70 (14.75)	4.502 ± 0.11 (2.64)	10 ± 1 (6.47)		58 ± 23 (43.76)	
GDM010	6	453 ± 67 (15.92)	4.535 ± 0.25 (5.96)	12 ± 1 (5.07)		53 ± 39 (79.75)	79
GDM011		646 ± 60 (9.83)	4.013 ± 0.211 (5.51)	10 ± 1 (8.96)		36 ± 4 (12.27)	40 ± 11 (29.97)
GDM012		518 ± 20 (4.19)	4.799 ± 0.208 (4.69)	10 ± 1 (6.05)		58 ± 14 (26.72)	60 ± 13 (24.29)
GDM013		566 ± 68 (12.96)	5.362 ± 0.208 (4.19)	12 ± 1 (9.03)		63 ± 4 (6.88)	
GDM014	12 ± 1 (10.72)	293 ± 5 (1.9)	2.85 ± 0.225 (8.56)	20		49 ± 2 (3.83)	52 ± 5 (9.33)
GDM015	10 ± 2 (21.67)	324 ± 38 (12.56)	4.517 ± 0.017 (0.41)	7	71 ± 38 (57.96)	69 ± 13 (20.77)	47 ± 40 (91.48)
GDM016	6 ± 2 (43.39)	365 ± 32 (9.36)	4.58 ± 0.142 (3.36)	9 ± 1 (6.7)	51 ± 22 (46.35)	93 ± 2 (2.33)	4
GDM017		430 ± 5 (1.15)	4.921 ± 0.09 (1.99)	10		65 ± 0 (0)	
GDM018		473 ± 39 (8.88)	4.221 ± 0.089 (2.28)	10		58 ± 20 (37.78)	
GDM019		616 ± 42 (7.3)	4.547 ± 0.107 (2.54)	12		66 ± 6 (9.29)	
GDM020	2	477 ± 39 (8.81)	4.98 ± 0.271 (5.9)	11 ± 1 (9.85)		63 ± 4 (7.5)	
GDM021	13 ± 13 (120.92)	339 ± 45 (14.22)	4.361 ± 0.115 (2.87)	11 ± 1 (5.52)		57 ± 24 (45.26)	82
GDM022		512 ± 1 (0.12)	4.503 ± 0.049 (1.18)	10		31 ± 1 (4.08)	
GDM023	3 ± 1 (31.82)	411 ± 9 (2.3)	4.728 ± 0.164 (3.77)	12		73 ± 2 (2.28)	
GDM024	23 ± 4 (20.53)	363 ± 129 (38.45)	4.569 ± 0.338 (8.02)	10 ± 2 (18.76)		38 ± 33 (93.49)	142
GDM025		730 ± 83 (12.34)	4.639 ± 0.133 (3.11)	10 ± 2 (17.12)		66 ± 6 (9.85)	
GDM026	20 ± 10 (53.37)	300 ± 14 (5.21)	3.476 ± 0.538 (16.78)	11 ± 1 (11.73)	27 ± 7 (28.67)	76 ± 6 (8.9)	20 ± 13 (71.59)
GDM027	37 ± 28 (83.58)	347 ± 26 (8.12)	4.781 ± 0.385 (8.72)	8 ± 3 (32.72)		79 ± 5 (6.93)	
GDM028	19 ± 11 (60.34)	192 ± 51 (29.04)	9.758 ± 1.116 (12.39)	28 ± 1 (4.42)	312 ± 25 (8.6)	56 ± 18 (34.23)	144 ± 31 (23.07)
GDM029	3	398 ± 29 (7.98)	4.242 ± 0.038 (0.97)	12	20 ± 15 (80.15)	69 ± 4 (6.31)	13 ± 12 (108.19)
GDM030	6 ± 3 (49.38)	339 ± 45 (14.36)	4.673 ± 0.127 (2.95)	10 ± 1 (6.47)		54 ± 13 (25.56)	13
GDM101		491 ± 59 (13.08)	3.075 ± 0.461 (16.24)	7 ± 1 (17.06)		67 ± 5 (7.25)	
GDM102	5 ± 4 (95.46)	426 ± 65 (16.5)	2.459 ± 0.359 (15.81)	3 ± 1 (18.76)			48 ± 59 (133.61)
GDM103	93 ± 43 (50.08)	354 ± 47 (14.25)	1.944 ± 0.414 (23.08)				
GDM104	8 ± 8 (116.67)	400 ± 127 (34.32)	4.174 ± 0.066 (1.71)	10 ± 1 (6.47)		45 ± 14 (32.93)	46 ± 37 (92.66)
GDM105		608 ± 78 (13.83)	3.687 ± 0.323 (9.49)	8 ± 1 (13.54)		58 ± 23 (42.8)	26
GDM106		684 ± 316 (50.03)	3.177 ± 0.844 (28.76)	5 ± 3 (62.06)		62 ± 27 (46.06)	
GDM107	23	511 ± 71 (15.11)	4.635 ± 0.217 (5.08)	7 ± 1 (18.76)			52 ± 20 (42.83)
GDM108	18 ± 11 (65.57)	354 ± 124 (38.02)	2.442 ± 0.292 (12.96)	7 ± 1 (15.48)		26 ± 14 (56.76)	58 ± 27 (52.12)

ANID	Cr	Mn	Fe %	Co	Ni	Cu	Zn
GDM109	54	458 ± 112 (26.36)	3.525 ± 0.423 (12.99)	8 ± 1 (13.54)		56 ± 4 (7.37)	20 ± 11 (63.64)
GDM110		452 ± 71 (17.03)	3.06 ± 0.153 (5.41)	7 ± 1 (9.38)		53 ± 32 (64.41)	28 ± 36 (147.53)
GDM111	31 ± 33 (112.8)	286 ± 31 (11.7)	2.061 ± 1.018 (53.53)	5 ± 2 (53.61)	68 ± 73 (117.13)	25 ± 11 (48.06)	105 ± 57 (58.9)
GDM112	8 ± 6 (80.35)	302 ± 73 (26.06)	2.676 ± 0.222 (8.99)	6 ± 1 (9.88)	30 ± 1 (2.7)	51 ± 9 (20.48)	92 ± 99 (116.6)
GDM113	11	394 ± 121 (33.24)	3.3 ± 0.113 (3.7)	10 ± 1 (12.11)		59 ± 26 (47.88)	71
GDM114		529 ± 29 (5.85)	2.783 ± 0.23 (8.94)	5 ± 1 (26.81)			91 ± 11 (13.19)
GDM115	71 ± 13 (20.17)	483 ± 352 (78.99)	2.553 ± 0.782 (33.18)	4 ± 2 (57.74)		44 ± 17 (42.56)	
GDM116	18 ± 14 (88.39)	410 ± 88 (23.36)	4.867 ± 0.291 (6.48)	10 ± 1 (12.11)		64 ± 12 (20.58)	
NIST 278	13 ± 10 (85.67)	358 ± 1 (0.35)	1.355 ± 0.072 (5.76)	3	42 ± 4 (9.3)	26 ± 3 (11.02)	88 ± 1 (0.71)
NIST 610	200 ± 9 (4.53)	367 ± 2 (0.49)	1.813 ± 0.036 (2.08)				
NIST 688	236 ± 16 (7.45)	836 ± 11 (1.42)	5.586 ± 0.112 (2.18)	26	99 ± 9 (10.2)	69 ± 6 (10.14)	60 ± 13 (24.29)
RGM 1	8 ± 1 (13.54)	317 ± 3 (1.1)	1.114 ± 0.038 (3.68)	2	32 ± 4 (11.77)	31 ± 3 (8.89)	75 ± 6 (8.67)

ANID	K %	Ti %	Fe %	Zn	Ga	Th	Rb
GDM007	3.422	0.257	6.039	289	74	8	239
GDM008	3.418	0.242	5.750	252	70	12	258
GDM009	1.032	0.672	8.520	398	88	13	237
GDM010	3.592	0.165	4.408	118	50	6	218
GDM011	3.569	0.214	5.201	274	60	14	457
GDM012	2.888	0.346	6.440	318	83	13	241
GDM013	0.441	0.774	8.393	473	96	19	231
GDM014	0.451	0.735	9.549	506	94	11	250
GDM015		0.850	8.565	576	102	15	201
GDM016		1.342	8.395	510	105	13	209
GDM017	0.864	0.702	8.055	493	91	10	207
GDM018	3.004	0.330	6.088	301	74	11	215
GDM019	3.103	0.275	5.323	193	64	9	259
GDM020	3.088	0.312	6.265	252	78	7	260
GDM021	2.254	0.466	7.605	315	73	10	279
GDM022	3.235	0.277	5.533	272	80	14	253
GDM023	3.564	0.244	6.763	272	84	18	530
GDM024	3.339	0.190	4.357	155	54	13	227
GDM025	2.794	0.348	5.440	188	69	9	213
GDM026	2.300	0.458	7.050	425	69	13	439
GDM027	0.067	0.784	8.461	499	113	19	218
GDM028	2.786	0.231	8.539	199	20	2	4
GDM029	3.720	0.167	5.187	200	54	8	233
GDM030	2.808	0.363	6.008	287	59	13	242
GDM101	4.021	0.099	2.579	131	48	26	687
GDM102	3.844	0.092	1.758	225	57	32	903
GDM103	3.928	0.079	1.293	113	42	23	563
GDM104	3.469	0.179	3.128	89	35	10	261
GDM105	4.138	0.072	3.979	196	55	33	903
GDM106	3.984	0.093	2.581	108	40	22	643
GDM107	3.020	0.274	3.298	316	22	14	318
GDM108	3.954	0.105	2.434	113	44	11	417

ANID	K %	Ti %	Fe %	Zn	Ga	Th	Rb
GDM109	3.660	0.147	3.172	83	34	9	232
GDM110	3.588	0.147	2.737	104	54	6	262
GDM111	4.114	0.089	2.513	79	39	12	245
GDM112	3.968	0.096	2.538	105	53	17	429
GDM113	3.941	0.074	2.143	80	37	12	316
GDM114	3.242	0.244	2.922	549	28	26	852
GDM115	3.845	0.167	3.615	273	137	20	551
GDM116	2.232	0.469	7.560	412	96	9	244
NIST 278	3.514 ± .003 (.08)	.08 ± .005 (5.17)	1.539 ± .045 (2.33)	72 ± 7 (8.18	20 ± 1 (.88)	12 ± 2 (13.96)	128 ± 6 (3.51)
NIST 610	3.358 ± .076 (1.81)	.051 ± .006 (10.34)	.156 ± .004 (2.21)	704 ± 9 (1.04)	278 ± 5 (1.29)	336 ± 1 (.28)	378 ± 10 (2.2)
NIST 688	2.562 ± .084 (2.61)	.355 ± .029 (6.6)	7.143 ± .211 (2.35)	150 ± 1 (.37)	26 ± 1 (2.05)	3	6 ± 1 (5.21)
RGM 1	3.493 ± .04 (1.24)	.077 ± .013 (14.82)	1.287 ± .037 (2.53)	50 ± 10 (18.84)	14 ± 2 (9.31)	13 ± 2 (13.71)	137 ± 5 (3.35)

ANID	Sr	Y	Zr	Nb	Mn
GDM007	57		10	41	1004
GDM008	51		26	41	1013
GDM009	61		13	42	1317
GDM010	48		8	41	563
GDM011	12		21	53	1238
GDM012	54		8	42	950
GDM013	41		11	40	1998
GDM014	39		14	42	2282
GDM015	46		19	37	2166
GDM016	52		12	32	2447
GDM017	54		13	40	1928
GDM018	62		12	33	1070
GDM019	53		11	47	977
GDM020	57		5	40	1196
GDM021	44		9	53	1080
GDM022	68		12	38	1320
GDM023	1		13	158	1324
GDM024	57		9	40	776
GDM025	69		9	59	936
GDM026	15		9	45	1195
GDM027	48		17	36	2072
GDM028			6	24	844
GDM029	56		14	45	764
GDM030	52		10	45	1119
GDM101			10	133	619
GDM102			7	112	423
GDM103	30		7	84	340
GDM104	21		7	60	592
GDM105			10	139	964
GDM106			7	123	516
GDM107	71		41	85	863
GDM108	2		9	138	504

ANID	Sr	Y	Zr	Nb	Mn
GDM109	33	1	8	58	405
GDM110	7		9	64	514
GDM111	23		9	42	512
GDM112	4		9	136	505
GDM113	7	13	13	103	622
GDM114	102		13	19	1167
GDM115	1		8	147	456
GDM116	29		9	54	2036
NIST 278	64 ± 3 (3.34)	40 ± 2 (4.72)	277 ± 2 (.48)	17 ± 1 (3.96)	493 ± 46 (7.49)
NIST 610	389 ± 10 (2.04	353 ± 3 (.63)	403 ± 4 (.85	417 ± 2 (.36)	605 ± 24 (3.13)
NIST 688	150 ± 6 (2.91)	19 ± 1 (1.53)	48 ± 2 (3.82)	4 ± 2 (38.79)	1775 ± 65 (2.91)
RGM 1	87 ± 5 (5.11)	18 ± 2 (9.95)	184 ± 6 (3.11)	9 ± 2 (19.19)	353 ± 64 (15.94)